



# INTRODUCTION

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Look around you! Above all, there was always light. It allows us to comprehend life, discerning between darkness and light, ignorance and wisdom. Light has played a crucial role in the advancement of humanity. Light has brought our eyes together with the colors of the world and bestowed upon us aesthetic feelings. If there is light, life is beautiful!

## *A better way to see!*

For over 30 years, we have been enhancing life with our illumination expertise. We realize turnkey lighting projects worldwide, to better appreciate the beauty life offers us. Our proficiency in design, engineering, and manufacturing seamlessly integrates technology and art. We offer tailored LED lighting solutions for various applications, including facade, park and garden, pool, outdoor and indoor spaces, industrial facilities, road, and decorative lighting areas.

SEE THE BUILDING  
SEE THE CITY  
SEE THE LIFE  
in *A BETTER WAY*



# STORY BEHIND THE POLAR BEAR

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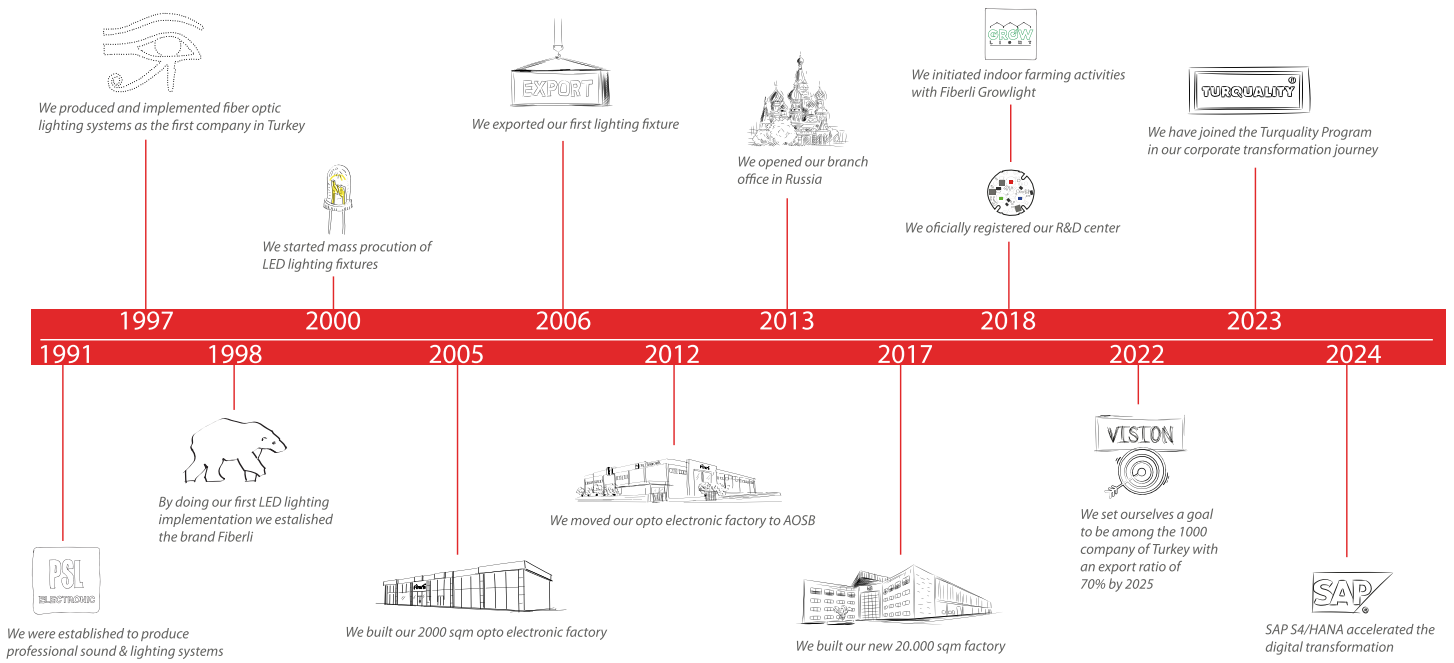
## *Harnessing Nature's Brilliance for Sustainable Lighting*

*In the vast icy landscapes where polar bears reign supreme, the seemingly endless stretches of white are not just a shield against the cold, but a testament to the ingenious workings of nature. It's a common misconception that the thick white fur of polar bears solely protects them from the harsh Arctic temperatures. Contrary to appearances, the bears' skin is closer to black in color. What appears to be a simple coat of fur is, in fact, a marvel of natural engineering.*

*Each white hair in the polar bear's fur possesses fiber-optic properties, acting as a conduit for sunlight. Instead of merely providing insulation, these hairs channel sunlight directly to the bear's black-pigmented skin, where it is converted into heat. This incredible mechanism allows polar bears to maximize the efficiency of the sun's energy, adapting seamlessly to their environment. In much the same way, Fiberli draws inspiration from this remarkable synergy of nature. Our logo, symbolized by the polar bear, encapsulates our commitment to energy efficiency and the perfect harmony of technology and the environment. The polar bear's ability to harness sunlight aligns with Fiberli's ethos of utilizing cutting-edge technology to create lighting solutions that not only illuminate spaces with brilliance but also do so in the most sustainable manner.*



# TIMELINE



## OUR VALUES

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### VALUE TO LIFE

Our primary mission is to enhance the quality of our surroundings and enrich life through the transformative power of light. We approach all our projects with this guiding principle

### INNOVATION

In our pursuit to deepen our understanding of life, we are investing significantly in research and development, consistently pushing the boundaries of innovation through the adoption of new technologies

### SUSTAINABILITY

We advocate for energy efficiency through our environmentally friendly LED technology, ensuring conservation. Our operations are marked by an unwavering commitment to efficiency in all processes

### TRUSTWORTHINESS

We consider all our stakeholders as part of our own family and operate with a zero-problem policy, working with high responsibility

### INTEGRALITY

We provide our stakeholders with a comprehensive A-to-Z service, offering end-to-end solutions that encompass project planning, production, and installation. Delivering excellence from concept to execution, we strive to deliver high value in every aspect of our engagements

## TURNKEY PROJECTS WORLDWIDE



since

**1991**

Export to

**70+** countries

**23.000** m<sup>2</sup>

factory

**300+**

professionals

Fiberli is accepted into  
TURQUALITY, trademark  
export program led by the  
Republic of Turkey

**IALDLIRC**

Fiberli is a member of  
The Lighting Industry  
Resource Council (LIRC)

# TURNKEY PROJECTS WORLDWIDE



Purpose of the product

Table of product selection for ordering

QR Code

IP & Light Output Symbols

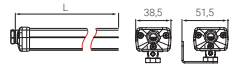
## LED Projectors

## WLMS

Product Image



Technical drawing of the product



Pictograms of areas where the product can be applied



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with UV protection
- High efficiency group lens

### P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLMS1	WW-NW-CW	24V DC	8	820	300	0,30
WLMS2	WW-NW-CW	24V DC	16	1.640	600	0,50
WLMS3	WW-NW-CW	24V DC	24	2.460	900	0,80
WLMS4	WW-NW-CW	24V DC	36	3.280	1200	1,10
WLMS50-DMX	RGB	24V DC	9	-	500	0,40
WLMS100-DMX	RGB	24V DC	17	-	1000	0,80

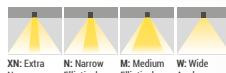
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

### C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

Color alternatives are not available with DMX option.

### O Lens Options



XN: Extra Narrow Elliptical Angle  
N: Narrow Elliptical Angle  
M: Medium Elliptical Angle  
W: Wide Angle

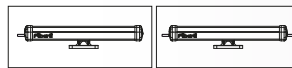
WLMS-DMX lens options can be change

### J Junction Options



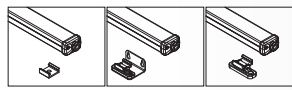
01: Cable 02: IP Socket

### K Cable Direction Options\*



01: Single entry 03: Dual entry and exit  
\* The max. junction qty may vary for the products with both entry and exit

### M Mounting Options



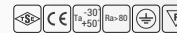
25: Surface Mounting 27: Wall Mounting 28: Floor Installation



Order Code

P W C O J K M

Please contact our sales representatives for special application requests other than the standard product.



Electromechanical specs of the product

Symbols and certificates belong to the product

Product options

Configuration codes of the product



**Product's photometric test data**

**Color and control compatibility chart**

**Product version control system and cable chart**

## LED Projectors WLMS

**Product Diagrams**

**Polar Diagram**

cd/km  
—C0— C180 —C90— C270     η=100%

**Conical Diagram**

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0,77	1557
1.0	1,53	389
1.5	2,30	173
2.0	3,07	97
2.5	3,84	62
3.0	4,60	43

WLMS 1 MP12 CW 120D 8W 220V AC IP66

**Polar Diagram**

cd/km  
—C0— C180 —C90— C270     η=100%

**Conical Diagram**

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0,17	7959
1.0	0,33	1990
1.5	0,50	884
2.0	0,66	497
2.5	0,83	318
3.0	0,99	221

WLMS 4 MP48 CW 10D 36W 220V AC IP66

**Control System Options**

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC †	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX						

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
WLMS 109	24	PWM	2x	4x	-
WLMS 218	24	PWM	2x	4x	-
WLMS 327	24	PWM	2x	4x	-
WLMS 436	24	PWM	2x	4x	-

**Reference photo of the product**


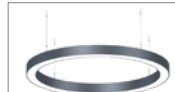

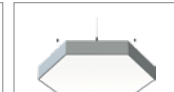
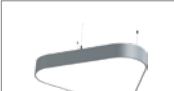







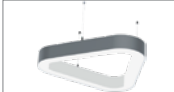
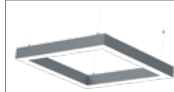
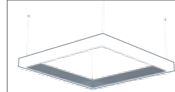
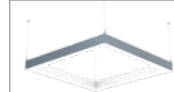

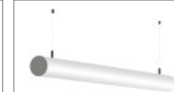


**Project photo where the product applied**

Istek College, Antalya

## 16 LEDLine - Linear Illumination Products

 LLS <b>18</b>	 LLK <b>20</b>	 LLKP <b>22</b>	 LLKE <b>24</b>	 LLFS8 <b>25</b>	 LLCRN <b>27</b>	 ERL100 <b>29</b>
 ERL75 <b>31</b>	 ERL50 <b>33</b>	 ERL35 <b>35</b>	 ERL25 <b>37</b>	 EPL75 <b>39</b>	 EPL50 <b>41</b>	 EPL35 <b>43</b>
 LLET <b>45</b>	 LLEN PRO <b>47</b>	 LLEN TECO <b>49</b>	 LLST <b>50</b>	 LLTMS <b>51</b>	 Delta35 <b>53</b>	 Delta50 <b>55</b>
 RODA <b>57</b>	 RODA EVO <b>59</b>	 C-Line-18 <b>61</b>	 C-Line-28 <b>63</b>	 LLGEN <b>65</b>		

## 68 DecoPendant - Decorative Luminaires

 BLZ <b>70</b>	 BLZ Hex <b>72</b>	 BLZ Tria <b>73</b>	 BLZS <b>74</b>	 BLZ Puzzle <b>76</b>	 DRM <b>78</b>	 DRM Hex <b>80</b>
 DRM Tria <b>81</b>	 DRMG <b>82</b>	 DRMS <b>84</b>	 YZKd <b>86</b>	 YZKd Hex <b>88</b>	 YZKd Tria <b>89</b>	 YZKi <b>90</b>
 YZKi Hex <b>92</b>	 YZKi Tria <b>93</b>	 QDR <b>94</b>	 QDRd <b>96</b>	 QDRi <b>97</b>	 QDR² <b>98</b>	 LLT15 <b>100</b>
 LLT8 <b>101</b>	 Beehive <b>102</b>					

## 104 Cromadown - Downlight Luminaires

 <b>CDEW 106</b>	 <b>CDP1 108</b>	 <b>CDP3 110</b>	 <b>CDP5 112</b>	 <b>CDRB80 114</b>	 <b>CDRB150 115</b>	 <b>CDRB175 117</b>
 <b>CDRB300 119</b>	 <b>DAMLA 121</b>	 <b>YONJA 123</b>	 <b>YONJA S 125</b>	 <b>PNLC 127</b>	 <b>PNLL 129</b>	 <b>PNLS 131</b>

## 133 WallWasher - LED Projectors

 <b>WL 135</b>	 <b>WLT 139</b>	 <b>WLTC 141</b>	 <b>WLP 143</b>	 <b>WLM 145</b>	 <b>WLMS 147</b>	 <b>WS 149</b>
 <b>WSSM 151</b>	 <b>WH 153</b>	 <b>WH ECO 155</b>	 <b>WH4 157</b>	 <b>WH4 TECO 159</b>	 <b>WH6 160</b>	 <b>WH6 TECO 162</b>
 <b>WH9 163</b>	 <b>WH9 TECO 165</b>	 <b>WH16 168</b>	 <b>WH16 TECO 163</b>	 <b>SWH16 169</b>	 <b>SWH ECO 171</b>	 <b>WH5D 173</b>
 <b>WH Ex 175</b>	 <b>KARTAL GÖZÜ 177</b>	 <b>EAGLE EYES M 178</b>	 <b>EAGLE EYES J 180</b>	 <b>SUPREME 182</b>	 <b>SUPREME PRO 184</b>	 <b>IZ 186</b>
 <b>CIZ 187</b>	 <b>SNAKE 188</b>					

## 189 Cromagardena - Garden Lighting

 <b>CG1 191</b>	 <b>CG3 193</b>	 <b>CG5 195</b>	 <b>BELLA 197</b>
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## 199 Cromastreet - Street Lighting

 <b>AYDAN9 201</b>	 <b>AYDAN16 203</b>	 <b>AYFER4 205</b>	 <b>AYFER9 207</b>	 <b>SWH16 209</b>	 <b>SWH Eco 211</b>	 <b>AYFER9 SOLAR 213</b>
 <b>SEYHAN 215</b>	 <b>ARC SINGLE 216</b>	 <b>ARC DOUBLE 217</b>	 <b>ARC TRIPLE 218</b>	 <b>ARC SPIRAL 219</b>	 <b>ARC CIRCO 220</b>	 <b>KITE 222</b>
 <b>Boomerang 224</b>	 <b>SSA75 230</b>	 <b>SSA100 230</b>	 <b>SSA150 234</b>			

## 236 Cromafloor - Floor Lighting

 <b>CF500 238</b>	 <b>CF1 240</b>	 <b>CF3 242</b>	 <b>CF5 244</b>	 <b>CF1Y 246</b>	 <b>CFL 248</b>	 <b>CFU23 250</b>
 <b>CFU33 252</b>	 <b>CFU100 254</b>					



## 256 AquaCroma - Pool Lighting

 <b>AC500F 258</b>	 <b>AC500N 260</b>	 <b>AC1F 262</b>	 <b>AC3F 264</b>	 <b>AC5F 266</b>	 <b>AC1N 268</b>	 <b>AC3N 270</b>
 <b>AC5N 272</b>	 <b>AC1J 276</b>	 <b>AC5G 278</b>	 <b>AC5GE 280</b>	 <b>AC5K 282</b>	 <b>AC5Y 284</b>	 <b>LLUT 286</b>

## 288 CromaBollard - Decorative Garden Lighting

						
<b>CBC100 290</b>	<b>CBC150 291</b>	<b>CBW 292</b>	<b>CBT 294</b>	<b>BOLLARD L 295</b>	<b>BOLLARD V 296</b>	<b>BOLLARD BALANCE 297</b>
						
<b>BOLLARD TOWER 298</b>	<b>BOLLARD EAGLE S 299</b>	<b>Pole T 300</b>	<b>Pole V 304</b>	<b>Pole L 308</b>	<b>Pole Up 312</b>	<b>Balance 316</b>
						
<b>Eagle 320</b>	<b>Eagle S 324</b>	<b>Tower 328</b>	<b>Neptün 332</b>	<b>Figure 336</b>	<b>Swing 340</b>	<b>Twig 344</b>
						
<b>Dandelion 348</b>						

## 252 HighBay - HighBay & LowBay Lighting

 <b>BERT 354</b>	 <b>BERT PRO 356</b>	 <b>EOS 358</b>	 <b>EOS PRO 360</b>	 <b>AY380 TECO 362</b>	 <b>AY380 PRO 364</b>
 <b>CRAKE 366</b>					

## 368 Military Marine - Marine & Military Lighting

 <b>MM111A 370</b>	 <b>LLET-M 372</b>	 <b>PNLC-M 374</b>	 <b>PNLL-M 375</b>	 <b>PNLS-M 376</b>	 <b>WH-M 378</b>	 <b>WS-M 380</b>
 <b>Kartal Gözü 382</b>	 <b>Eagle Eyes J 383</b>	 <b>Eagle Eyes M 385</b>				

## 387 RDMX - RDM/DMX & Animation Lighting

 <b>LL RDMX 389</b>	 <b>WL RDMX 391</b>	 <b>WLT RDMX 395</b>	 <b>WS RDMX 397</b>	 <b>CFL RDMX 399</b>	 <b>DOT RDMX 401</b>
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## 403 LEDCell - LED Cell Products

 <b>DOT DIAMOND 405</b>	 <b>C-LINE SCREEN 408</b>
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## 409 FiberOptic - Fiber Optic Products

			
IK7 411	IK77 412	IK777 413	FOK 416

## 419 Electronic - Electronic & Control Systems

						
R Tipi 421	M1J Tipi 421	M2 Tipi 421	M2J Tipi 421	D Tipi 421	L Tipi 421	UK Tipi 421
						
DE Tipi 422	Wi-fi 422	Node2X 432	Node8X 433			

## 434 General and Technical Information

## 454 Catalog Dictionary

## Contact

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• PSL ELECTRONIC A.Ş. reserves the right to make changes to the products described in the catalogue, any time without prior notice.  
• Specifications of the LEDs, lumens, power, light color etc. stated in the catalogue are the declaration of the manufacturer companies and do not constitute binding for our company.



# Linear Luminaires

**LL**

**DP**

**CD**

**WW**

**CG**

**CS**

**CF**

**AC**

**CB**

**HB**

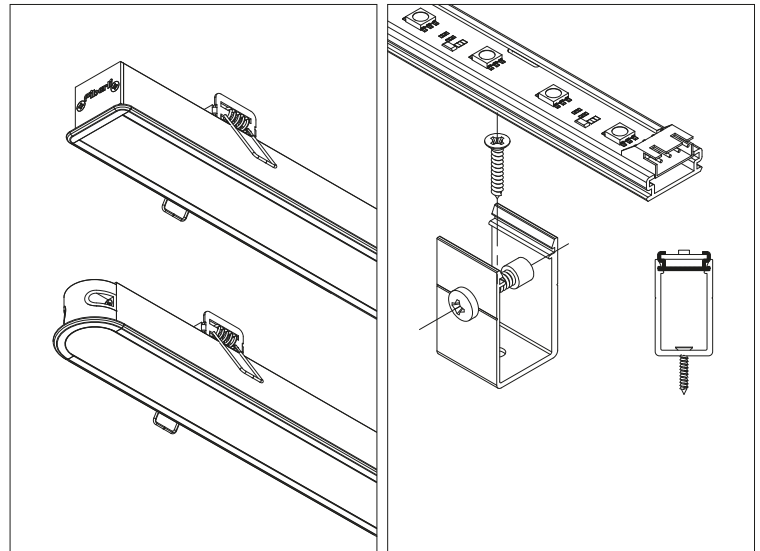
**MM**

**RDMX**

**LC**

**FO**

**EL**

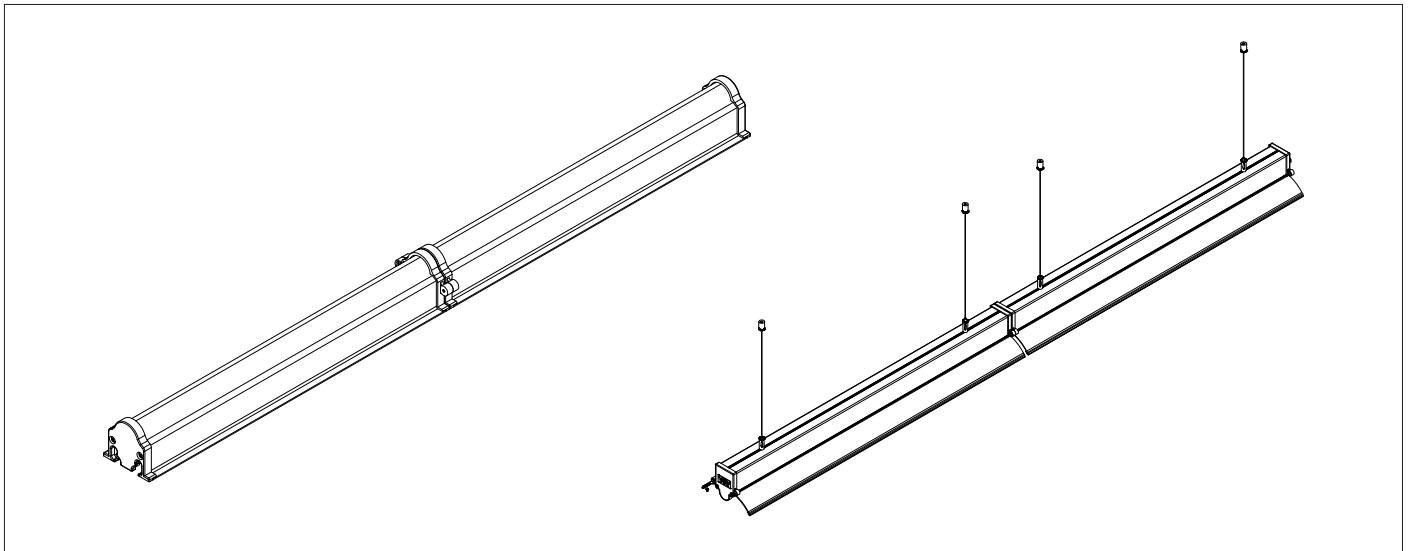


## **LEDLine**

Luminaires provide ideal lighting solutions for indoor and outdoor settings. These products can be used at any desired length by attaching them end-to-end without connections being visible. Luminaires can be produced as RGB or mono colour, as per order. They can be modified for outdoor use through production in IP65 standards with a polymer coating. Using the world's most efficient LEDs, our luminaires are extremely economical due to low energy consumption and long lifetime. Moreover, with their wide range of colour options and color changing features, the products provide architects and lighting designers the opportunity to bring their creative ideas to life.

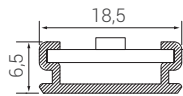


# Linear Luminaires



## LEDLine - Linear Illumination Products

 <b>LLS</b>	 <b>LLK</b>	 <b>LLKP</b>	 <b>LLFS8</b>	 <b>LLCRN</b>	 <b>LLU</b>	 <b>LLIH</b>
 <b>LLW2</b>	 <b>ERL100</b>	 <b>ERL75</b>	 <b>ERL50</b>	 <b>ERL35</b>	 <b>ERL25</b>	 <b>EPL75</b>
 <b>EPL50</b>	 <b>EPL35</b>	 <b>LLET</b>	 <b>LLET PRO</b>	 <b>LLEN TECO</b>	 <b>LLST</b>	 <b>LLTMS</b>
 <b>LLUT</b>	 <b>LLMS</b>	 <b>Delta35</b>	 <b>Delta50</b>	 <b>RODA</b>	 <b>RODA EVO</b>	 <b>C-Line-18</b>
 <b>C-Line-28</b>	 <b>LLGEN</b>					



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- Cooling capacity up to 14,4 W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLS15LED	WW-NW-CW	24V DC	6	675	0,12
LLS30LED	WW-NW-CW	24V DC	2,4	240	0,12
LLS30LED	WW-NW-CW	24V DC	7,2	720	0,12
LLS30LED	WW-NW-CW	24V DC	12	1.350	0,12
LLS45LED	WW-NW-CW	24V DC	10,8	1.080	0,12
LLS60LED	WW-NW-CW	24V DC	4,8	480	0,12
LLS60LED	WW-NW-CW	24V DC	14,4	1.440	0,12
LLS90LED	WW-NW-CW	24V DC	7,2	720	0,12
LLS120LED	WW-NW-CW	24V DC	9,6	960	0,12
LLS180LED	WW-NW-CW	24V DC	14,4	1.450	0,12
LLS30LED	RGB	24V DC	7,2	-	0,12
LLS45LED	RGB	24V DC	10,8	-	0,12
LLS60LED	RGB	24V DC	14,4	-	0,12
LLS60LED	RGB/W	24V DC	14,4	-	0,12

\*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

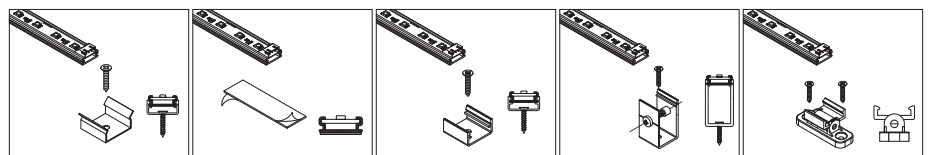
\*Different colors are optional

## J Junction Options



01: Cable      03: Horizontal Socket    04: Vertical Socket

## M Mounting Options

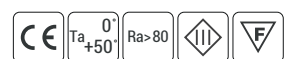


01: Steel Clip      02: Double-Sided Tape    03: Aluminum Clip    04: Aluminum Clip (tall)    05: Angled Clip



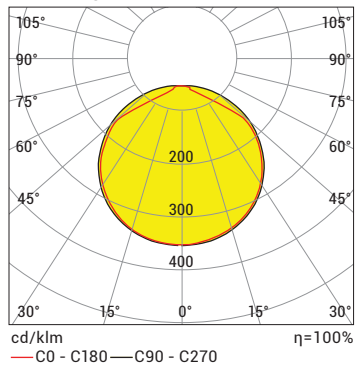
Order Code

P . W . C . J . M



## Product Diagrams

Polar Diagram









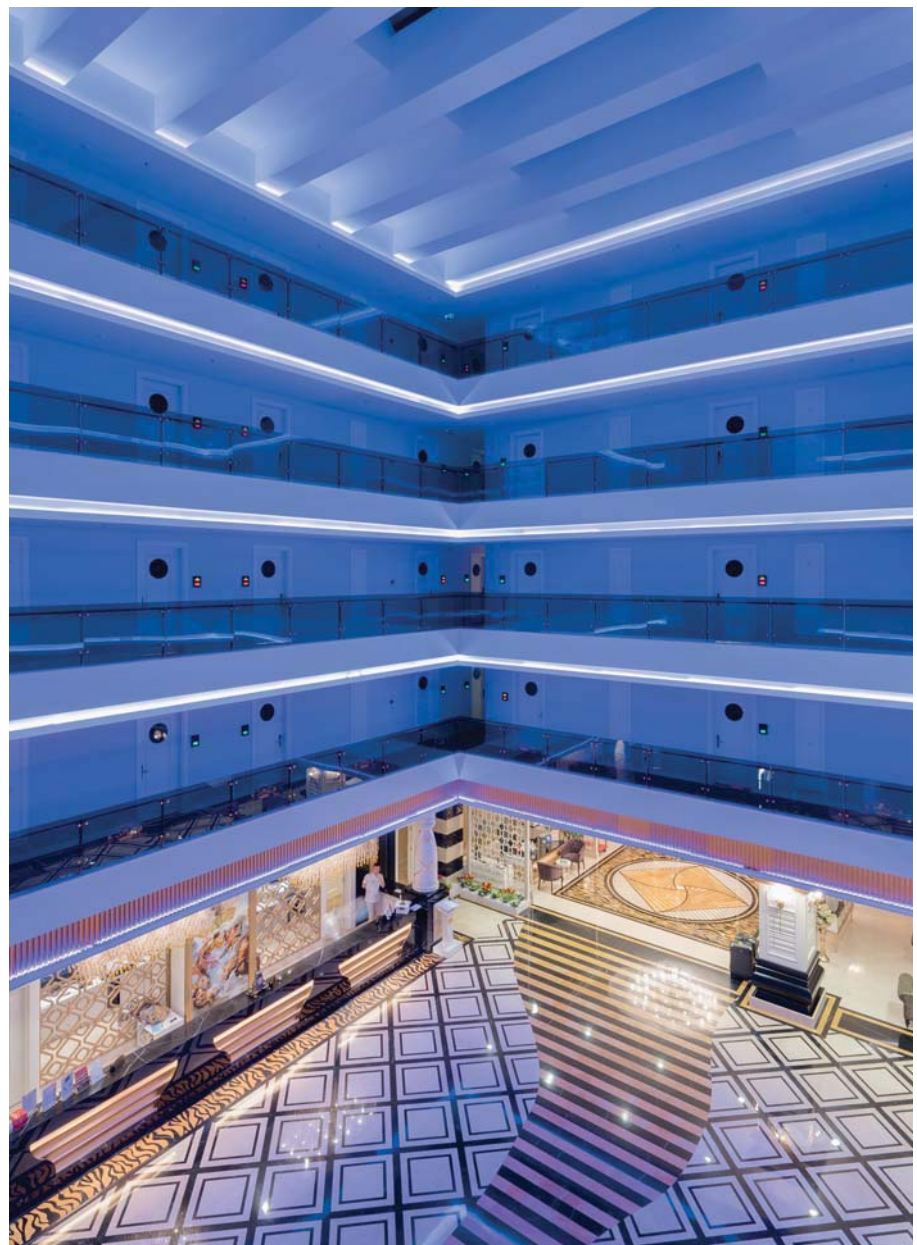
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1,65	1397
1.0	3,30	349
1.5	4,95	155
2.0	6,60	87
2.5	8,26	56
3.0	9,91	39

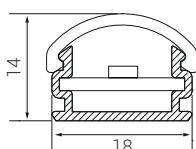
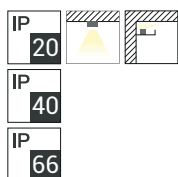
LLS 30LED 12W CW 120D 24V DC IP20

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 	•					
RGB DMX 						
WHITE DMX 						



Mary Palace Hotel, Antalya



- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors
- PVC end caps with UV protection
- Transparent or diffused polycarbonate top cover with UV protection.
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLK30LED	WW-NW-CW	24V DC	2,4	240	0,30
LLK30LED	WW-NW-CW	24V DC	12	1.350	0,30
LLK45LED	WW-NW-CW	24V DC	18	2.025	0,30
LLK60LED	WW-NW-CW	24V DC	4,8	480	0,30
LLK60LED	WW-NW-CW	24V DC	7,2	720	0,30
LLK60LED	WW-NW-CW	24V DC	14,4	1.440	0,30
LLK90LED	WW-NW-CW	24V DC	7,2	720	0,30
LLK90LED	WW-NW-CW	24V DC	10,8	1.100	0,30
LLK120LED	WW-NW-CW	24V DC	9,6	960	0,30
LLK180LED	WW-NW-CW	24V DC	14,4	1.450	0,30
LLK30LED	RGB	24V DC	7,2	-	0,30
LLK45LED	RGB	24V DC	10,8	-	0,30
LLK60LED	RGB	24V DC	14,4	-	0,30
LLK90LED	RGB	24V DC	21,6	-	0,30
LLK60LED	RGB/W	24V DC	14,4	-	0,30

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.  
 \*\* The same power values for white colors are applicable for R,G,B,A as well.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

\*Different colors are optional

## J Junction Options



01: Cable (side output)

02: IP Socket (side output)

03: Horizontal Socket

04: Vertical Socket

06: Cable (bottom output)

07: IP Socket (bottom output)



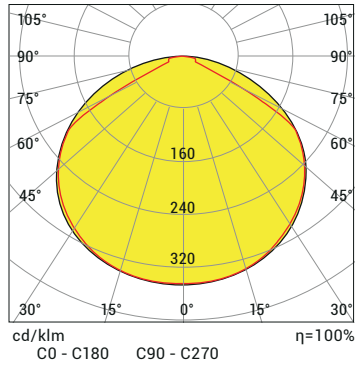
Order Code

P . W . C . J . U . I . M



## Product Diagrams

Polar Diagram

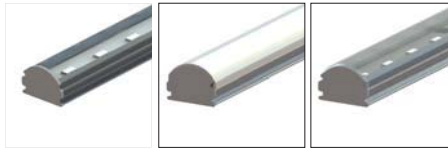


Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.68	2077
1.0	3.36	519
1.5	5.03	231
2.0	6.71	130
2.5	8.39	83
3.0	10.07	58

LLK 45 LED 18W CW 120D 24V DC IP20

## U Upper Cover Options



0: Coverless (IP20)

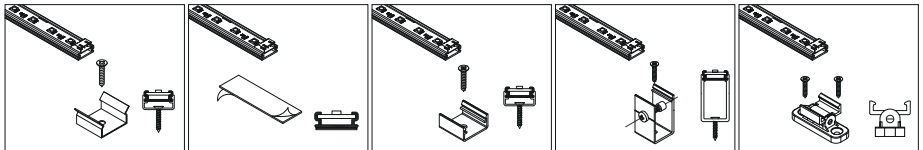
01: Diffused (IP40/IP66)

02: Transparent (IP40/IP66)

## I IP Protection Class



## M Mounting Options



01: Steel Clip

02: Double-Sided Tape

03: Aluminum Clip

04: Aluminum Clip (tall)

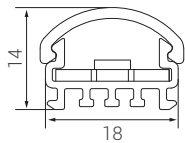
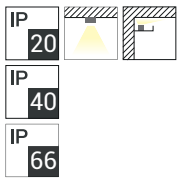
05: Angled Clip

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						



Adalya Elite Hotel, Antalya



- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors.
- PVC end caps with UV protection.
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLKP60LED	WW-NW-CW	24V DC	24	2.700	0,30
LLKP90LED	WW-NW-CW	24V DC	36	4.050	0,30

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
	● A: Amber 590nm

\*Different colors are optional

## J Junction Options



01: Cable (side output)      02: IP Socket (side output)

## U Upper Cover Options

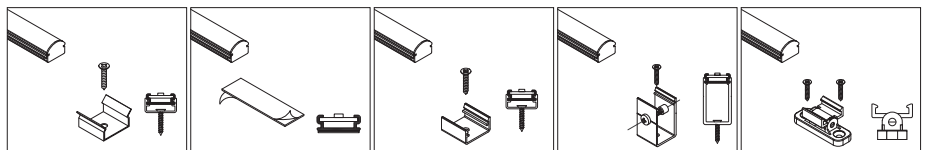


0: Coverless (IP20)      01: Diffused (IP40/IP66)      02: Transparent (IP40/IP66)

## I IP Protection Class



## M Mounting Options



01: Steel Clip      02: Double-Sided Tape      03: Aluminum Clip      04: Aluminum Clip (tall)      05: Angled Clip



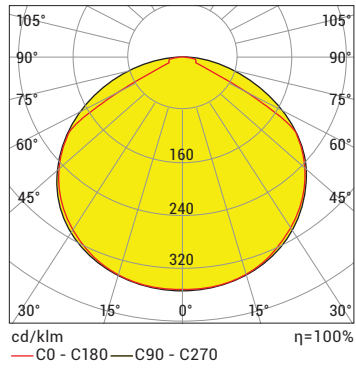
Order Code

P . W . C . J . U . I . M

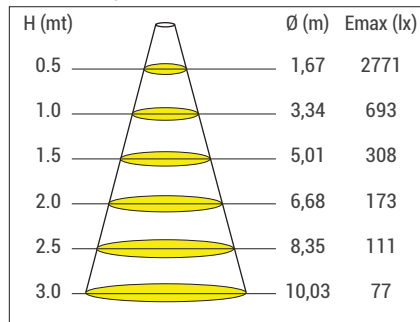


## Product Diagrams

Polar Diagram



Conical Diagram

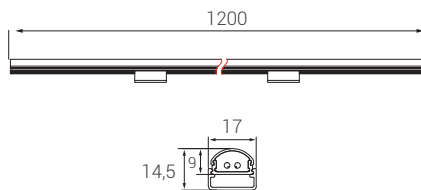


LLKP 60LED 24W CW 120D 24V DC IP20

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- PVC end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 7,2W/m
- Suitable for surface mounting
- Only produced as 120 cm

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLK ECO120	WW-NW-CW	24V DC	8,6	970	0,15

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

## C Light Color Options

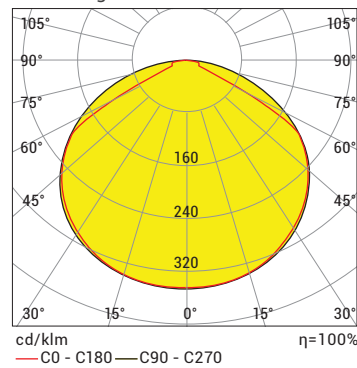
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## Control System Options

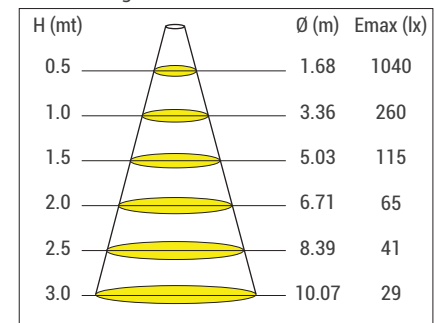
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams

Polar Diagram



Conical Diagram

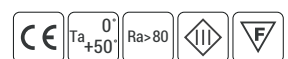


LLKE120 8,6W CW 120D 24V DC IP20

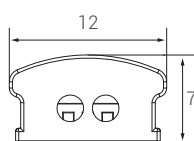
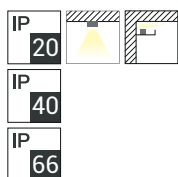


Order Code

P . W . C







- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors
- PVC end caps with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 14,4 W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLFS860LED	WW-NW-CW	24V DC	4,8	480	0,10
LLFS860LED	WW-NW-CW	24V DC	7,2	720	0,10
LLFS860LED**	WW-NW-CW	24V DC	14,4	1.440	0,10

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.  
 \*\* Only WW-NW-CW available.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional

## J Junction Options



01: Cable (side output)      02: IP Socket (side output)

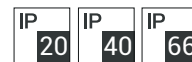
## U Upper Cover Options



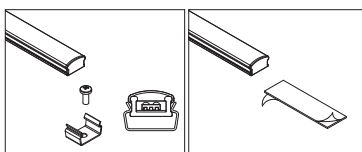
0: Coverless (IP20)      01: Diffused (IP40)      02: Transparent (IP40)

\*IP66 is produced in maximum 120cm length.  
 \*\*IP66 is produced only without a cover.

## I IP Protection Class



## M Mounting Options

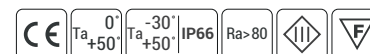


01: Steel Clip      02: Double-Sided Tape



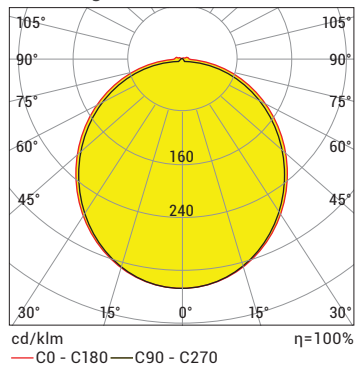
Order Code

P . W . C . J . U . I . M



## Product Diagrams

Polar Diagram



Conical Diagram

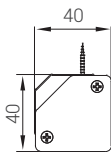
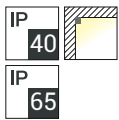
H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1,51	1335
1.0	3,01	334
1.5	4,52	148
2.0	6,02	83
2.5	7,53	53
3.0	9,03	37

LLFS8 60 LED 14,4W CW 120D 24V DC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum housing
- Stainless connectors
- PVC side cover with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 24W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLCRN45LED	WW-NW-CW	24V DC	10,8	725	0,7
LLCRN45LED	WW-NW-CW	24V DC	18	1.090	0,7
LLCRN60LED	WW-NW-CW	24V DC	4,8	390	0,7
LLCRN60LED	WW-NW-CW	24V DC	14,4	1.055	0,7
LLCRN60LED	WW-NW-CW	24V DC	24	1.460	0,7
LLCRN90LED	WW-NW-CW	24V DC	7,2	575	0,7
LLCRN180LED	WW-NW-CW	24V DC	14,4	945	0,7
LLCRN45LED	RGB	24V DC	10,8	-	0,7
LLCRN60LED	RGB	24V DC	14,4	-	0,7
LLCRN90LED	RGB	24V DC	21,6	-	0,7
LLCRN60LED	RGB/W	24V DC	14,4	-	0,7
LLCRN45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● <b>WW:</b> Warm White 3000K	● <b>R:</b> Red 625nm	● RGB
● <b>NW:</b> Natural White 4000K	● <b>G:</b> Green 525nm	● RGBW
● <b>CW:</b> Cold White 6500K	● <b>B:</b> Blue 465nm	● RGBA
	● <b>A:</b> Amber 590nm	

\*Different colors are optional

## J Junction Options



01: Cable (side outlet)

02: IP Socket (side outlet)

## I IP Protection Class



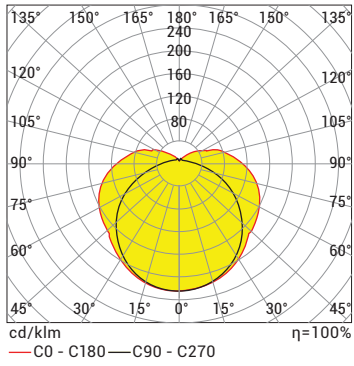
Order Code

P . W . C . J . I

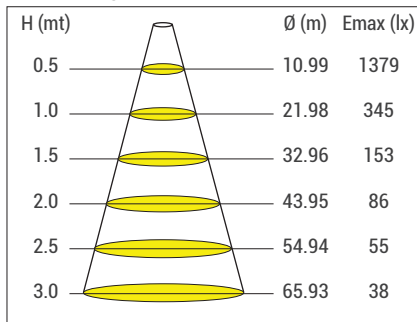


## Product Diagrams

Polar Diagram



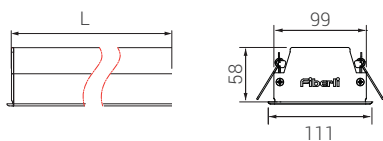
Conical Diagram



LLCRN 60 LED CW 120D 24W 24V DC IP40D

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL100	WW-NW-CW	24V DC	24	1.440	2,3
ERL100	WW-NW-CW	24V DC	36	2.160	2,3
ERL100	WW-NW-CW	24V DC	48	2.880	2,3
ERL100	WW-NW-CW	24V DC	54	3.240	2,3
ERL100	WW-NW-CW	24V DC	72	4.320	2,3

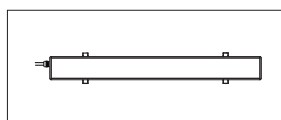
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

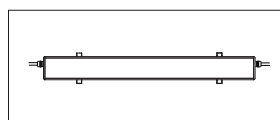
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

## K Cable Direction Options

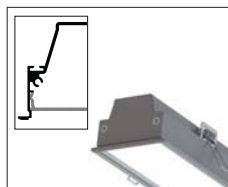


01: Single Entry

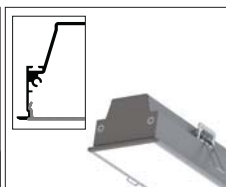


03: Dual end exit and entry

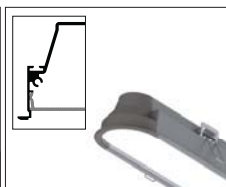
## U Upper Cover Options



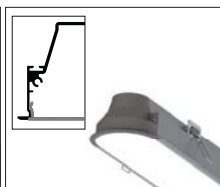
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface

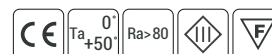


08: Oval Surface



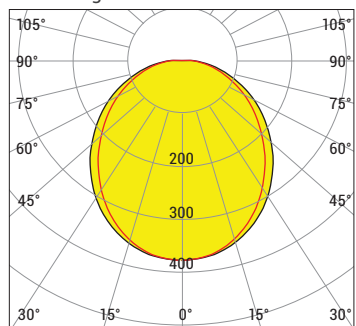
Order Code

P . W . C . K . U



## Product Diagrams

Polar Diagram



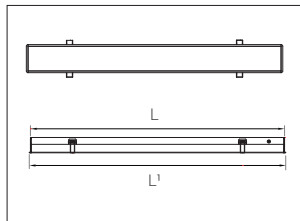
cd/klm  $\eta=100\%$   
 — C0 - C180 — C90 - C270

Conical Diagram

H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
0.5	1.33	5454
1.0	2.66	1364
1.5	4.00	606
2.0	5.33	341
2.5	6.66	218
3.0	7.99	152

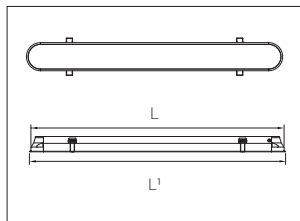
ERL100 CW 120D 72W 24V DC IP44D

## Product Length Options For ERL 100 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL100	220	200	24	L+14
ERL100	153	133	36	L+14
ERL100	120	100	48	L+14
ERL100	153	133	54	L+14
ERL100	86	66	72	L+14
ERL100	220	200	14	L+14
ERL100	120	100	28	L+14
ERL100	220	200	43	L+14

## Product Length Options For ErRL 100 Oval



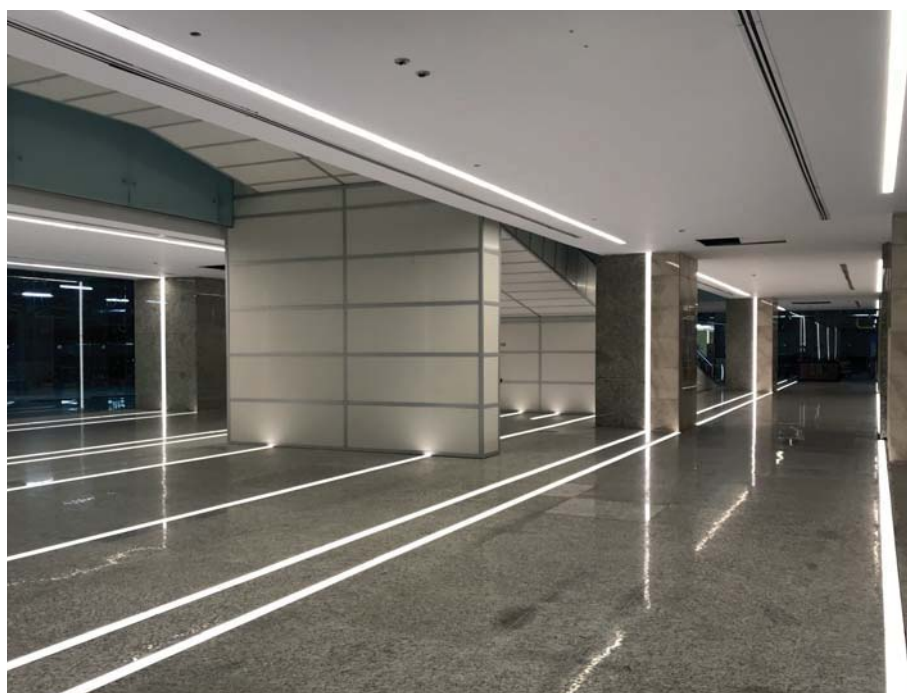
Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL100	280	200	24	L+14
ERL100	213	133	36	L+14
ERL100	190	100	48	L+14
ERL100	213	133	54	L+14
ERL100	146	66	72	L+14
ERL100	280	200	14	L+14
ERL100	180	100	28	L+14
ERL100	280	200	43	L+14

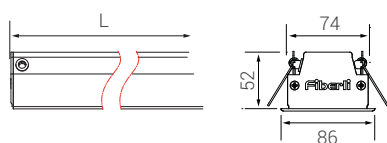
\*L=product length with end caps.

\*\*Application length formula (L) = min. length + (Application length x Qty)

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL75	WW-NW-CW	24V DC	24	1.440	2,05
ERL75	WW-NW-CW	24V DC	36	2.160	2,05
ERL75	WW-NW-CW	24V DC	48	2.880	2,05
ERL75	WW-NW-CW	24V DC	72	4.320	2,05

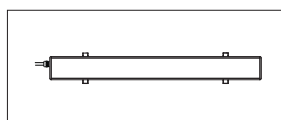
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

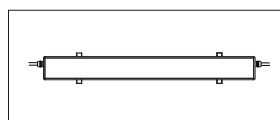
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

## K Cable Direction Options

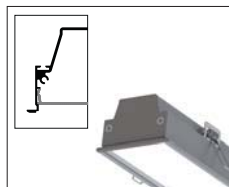


01: Single Entry

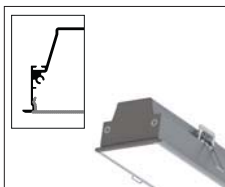


03: Dual end exit and entry

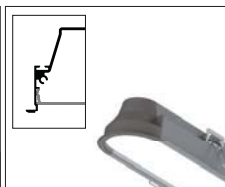
## U Upper Cover Options



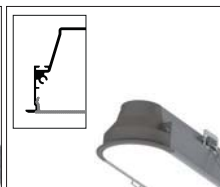
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface

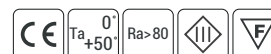


08: Oval Surface



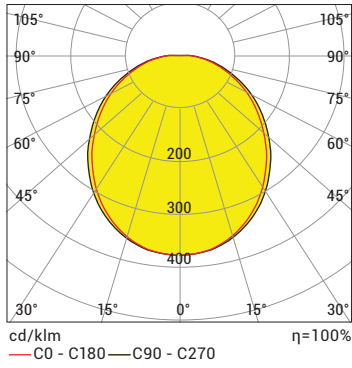
Order Code

P . W . C . K . U



## Product Diagrams

Polar Diagram

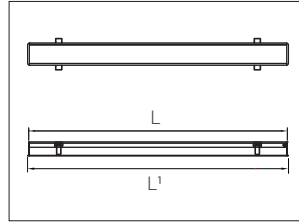


Conical Diagram

H (mt)	$\emptyset$ (m)	Emax (lx)
0.5	1.37	4886
1.0	2.73	1221
1.5	4.10	543
2.0	5.47	305
2.5	6.83	195
3.0	8.20	136

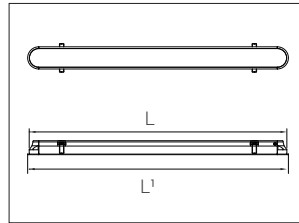
ERL75 CW 120D 72W 24V DC IP44D

## Product Length Options For ERL 75 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL75	230	200	24	L+14
ERL75	153	133	36	L+14
ERL75	120	100	48	L+14
ERL75	86	66	72	L+14
ERL75	220	200	14	L+14
ERL75	120	100	28	L+14

## Product Length Options For ErRL 75 Oval



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL75	255	200	24	L+14
ERL75	188	133	36	L+14
ERL75	155	100	48	L+14
ERL75	121	66	72	L+14
ERL75	255	200	14	L+14
ERL75	155	100	28	L+14

\*L=product length with end caps.

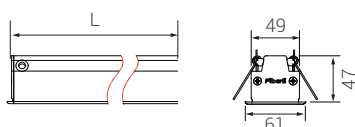
\*\*Application length formula( L )=min. length +( Application length x Qty )

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						







- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL50	WW-NW-CW	24V DC	14	840	1,6
ERL50	WW-NW-CW	24V DC	24	1.440	1,6
ERL50	WW-NW-CW	24V DC	36	2.160	1,6

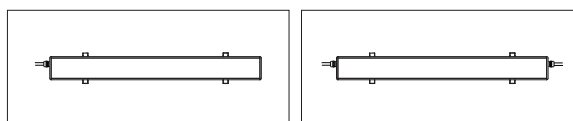
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

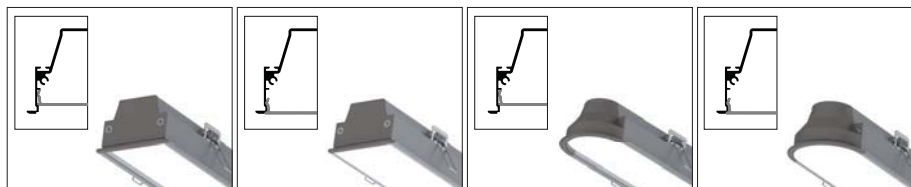
## K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

## U Upper Cover Options



05: Flat Deep Surface

06: Flat Surface

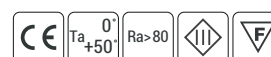
07: Oval Deep Surface

08: Oval Surface



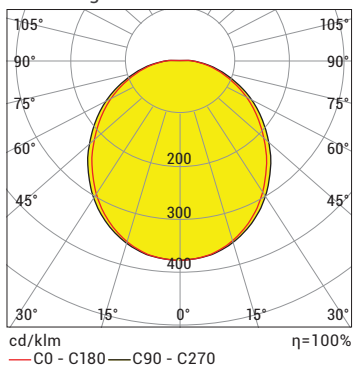
Order Code

P . W . C . K . U

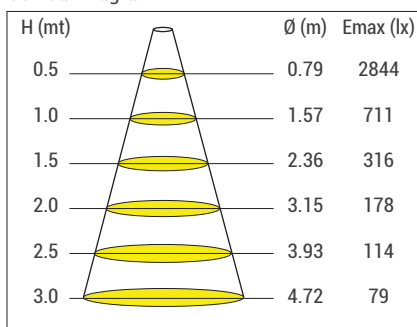


## Product Diagrams

Polar Diagram

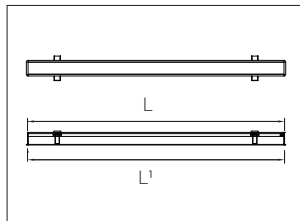


Conical Diagram



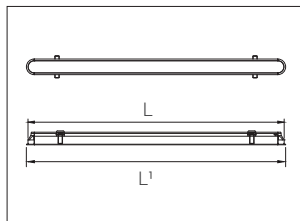
ERL50 CW 120D 36W 24V DC IP44D

## Product Length Options For ERL 50 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL50	220	200	12	L+14
ERL50	153	133	18	L+14
ERL50	120	100	24	L+14
ERL50	86	66	36	L+14
ERL50	210	200	7	L+14
ERL50	110	100	14	L+14

## Product Length Options For ErRL 50 Oval



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL50	230	200	24	L+14
ERL50	163	133	36	L+14
ERL50	130	100	48	L+14
ERL50	96	66	72	L+14
ERL50	230	200	14	L+14
ERL50	130	100	28	L+14

\*L=product length with end caps.

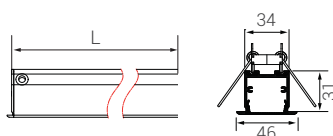
\*\*Application length formula (L) = min. length + (Application length x Qty)

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Ashgabat Olympic Stadium, Turkmenistan



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL35	WW-NW-CW	24V DC	7	420	1,1
ERL35	WW-NW-CW	24V DC	14	840	1,1
ERL35	WW-NW-CW	24V DC	24	1.440	1,1
ERL35	WW-NW-CW	24V DC	36	2.160	1,1

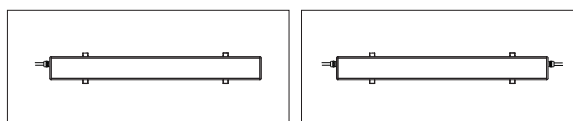
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

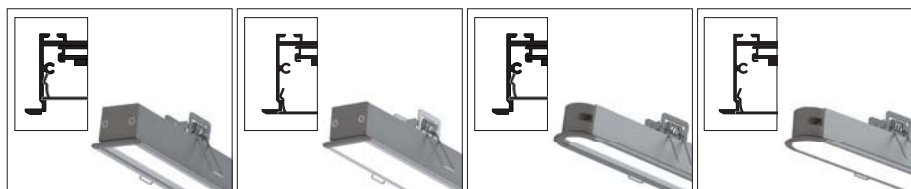
## K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

## U Upper Cover Options



05: Flat Deep Surface

06: Flat Surface

07: Oval Deep Surface

08: Oval Surface

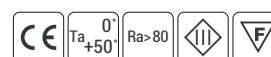
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



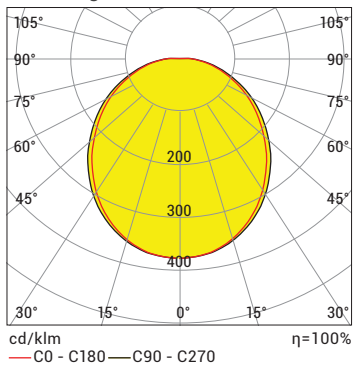
Order Code

P . W . C . K . U



## Product Diagrams

Polar Diagram

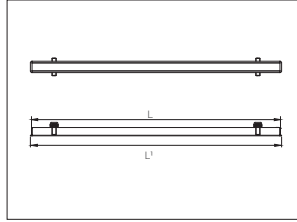


Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1.09	1806
1.0	2.17	451
1.5	3.26	201
2.0	4.35	113
2.5	5.44	72
3.0	6.52	50

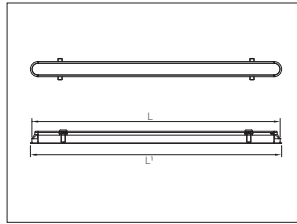
ERL35 CW 120D 24W 24V DC IP44D

## Product Length Options For ERL 35 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL35	120	100	7	L+14
ERL35	220	200	12	L+14
ERL35	120	100	14	L+14
ERL35	153	133	18	L+14
ERL35	120	100	24	L+14
ERL35	86	66	36	L+14
ERL35	210	200	7	L+14
ERL35	110	100	14	L+14

## Product Length Options For ErRL 35 Oval



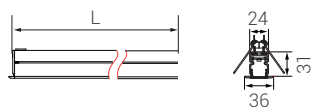
Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL35	135	100	7	L+14
ERL35	235	200	12	L+14
ERL35	135	100	14	L+14
ERL35	168	133	18	L+14
ERL35	135	100	24	L+14
ERL35	101	66	36	L+14
ERL35	235	200	14	L+14
ERL35	135	100	28	L+14

\*L=product length with end caps.

\*\*Application length formula (L) = min. length + (Application length x Qty)



Salaris Shopping Mall, Moscow



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 24 W/m
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL25	WW-NW-CW	24V DC	7	420	0,95
ERL25	WW-NW-CW	24V DC	14	840	0,95
ERL25	WW-NW-CW	24V DC	24	1.440	0,95

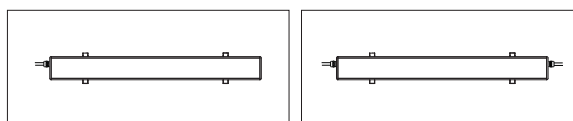
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

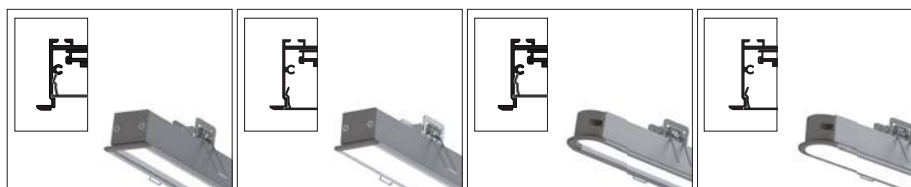
## K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

## U Upper Cover Options



05: Flat Deep Surface

06: Flat Surface

07: Oval Deep Surface

08: Oval Surface

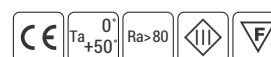
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



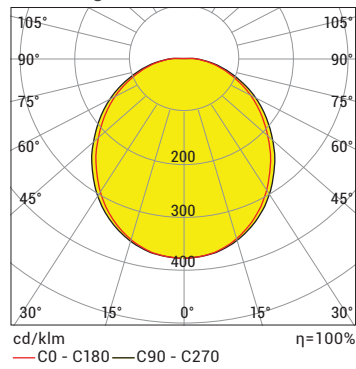
Order Code

P . W . C . K . U



## Product Diagrams

Polar Diagram

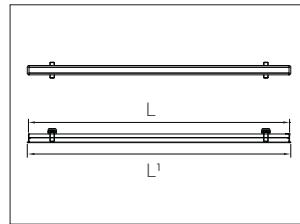


Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0.71	1871
1.0	1.43	468
1.5	2.14	208
2.0	2.85	117
2.5	3.57	75
3.0	4.28	52

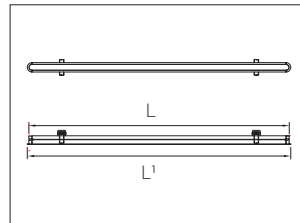
ERL25 CW 120D 24W 24V DC IP44D

## Product Length Options For ERL25 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL25	120	100	7	L+14
ERL25	220	200	12	L+14
ERL25	120	100	14	L+14
ERL25	153	133	18	L+14
ERL25	120	100	24	L+14
ERL25	220	200	7	L+14
ERL25	120	100	14	L+14

## Product Length Options For ErRL25 Oval



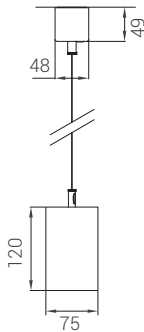
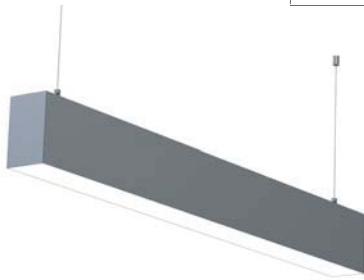
Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL25	125	100	7	L+14
ERL25	225	200	12	L+14
ERL25	125	100	14	L+14
ERL25	158	133	18	L+14
ERL25	125	100	24	L+14
ERL25	225	200	7	L+14
ERL25	125	100	14	L+14

\*L=product length with end caps.

\*\*Application length formula (L) = min. length + (Application length x Qty)



Algorithm Business Center, Russia



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL75-120	WW-NW-CW	220-240V AC	45	4.050	Direct	1217	4,1
EPL75-120	WW-NW-CW	220-240V AC	55	4.950	Direct + Indirect	1217	4,2
EPL75-160	WW-NW-CW	220-240V AC	68	6.120	Direct	1617	5,3
EPL75-160	WW-NW-CW	220-240V ACC	83	7.470	Direct + Indirect	1617	5,4

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

## S Driver Options

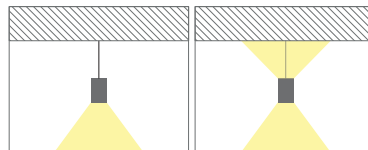
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## G Housing Color/Coating Options



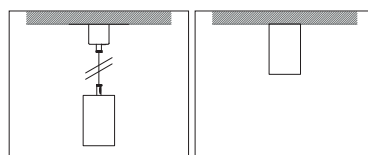
01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## E Additional Pieces Options



06: Direct 07: Direct / Indirect

## M Mounting Options

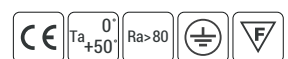


24: Pendant 25: Surface Mount



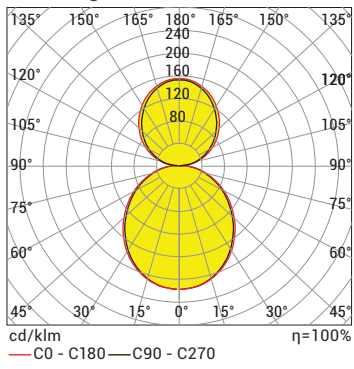
Order Code

P . W . C . S . G . E . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	1.40	1595
1.0	2.80	399
1.5	4.21	177
2.0	5.61	100
2.5	7.01	64
3.0	8.41	44

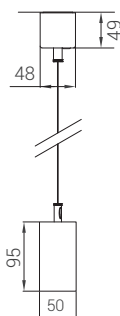
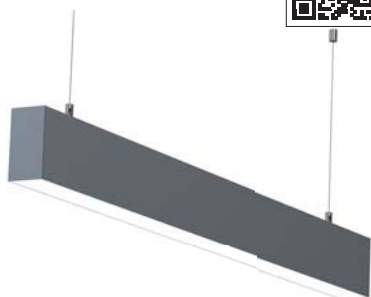
EPL75 CW DIRECT INDIRECT 44W 220V AC IP44D

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						







- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors.
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL50-120	WW-NW-CW	220-240V AC	15	1.350	Direct	1217	3,5
EPL50-120	WW-NW-CW	220-240V AC	30	2.700	Direct	1217	3,5
EPL50-120	WW-NW-CW	220-240V AC	45	4.050	Direct + Indirect	1217	3,6
EPL50-160	WW-NW-CW	220-240V AC	25	2.250	Direct	1617	4,1
EPL50-160	WW-NW-CW	220-240V AC	42	3.780	Direct	1617	4,1
EPL50-160	WW-NW-CW	220-240V AC	63	5.670	Direct + Indirect	1617	4,2

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

## S Driver Options

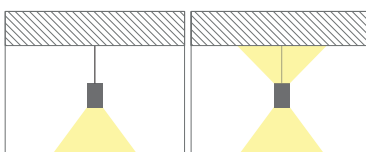
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## G Housing Color/Coating Options



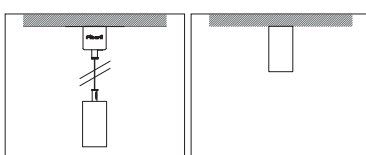
01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## E Additional Pieces Options



06: Direct 07: Direct / Indirect

## M Mounting Options

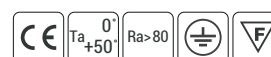


24: Pendant 25: Surface Mount



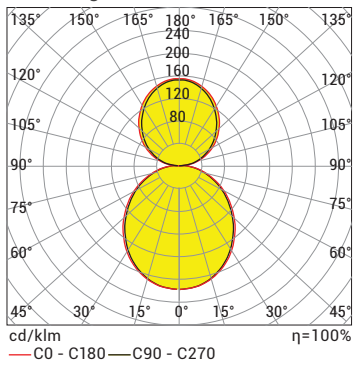
Order Code

P . W . C . S . G . E . M

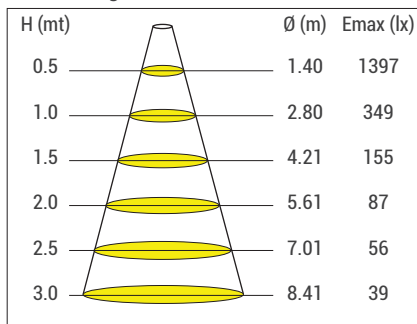


## Product Diagrams

Polar Diagram



Conical Diagram

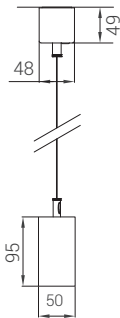
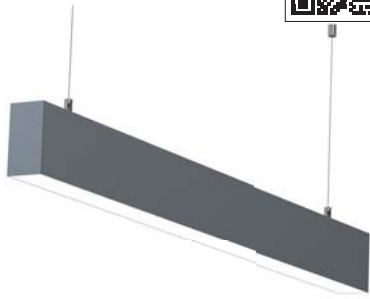


EPL50 DIRECT INDIRECT CW 42W 220V AC IP44D

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors.
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL35-120	WW-NW-CW	220-240V AC	15	1.350	Direct	1217	2,9
EPL35-120	WW-NW-CW	220-240V AC	30	2.700	Direct	1217	2,9
EPL35-120	WW-NW-CW	220-240V AC	45	4.050	Direct + Indirect	1217	3,0
EPL35-160	WW-NW-CW	220-240V AC	25	2.250	Direct	1617	3,8
EPL35-160	WW-NW-CW	220-240V AC	42	3.780	Direct	1617	3,8
EPL35-160	WW-NW-CW	220-240V AC	63	5.670	Direct + Indirect	1617	3,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

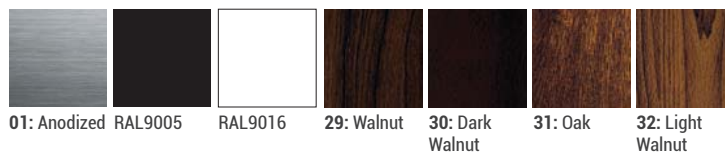
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

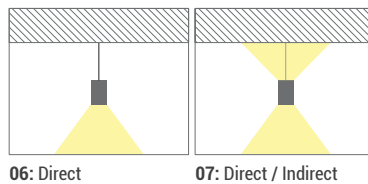
## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

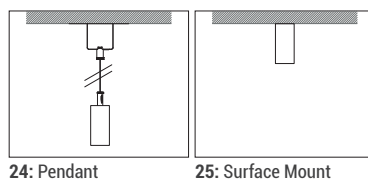
## G Housing Color/Coating Options



## E Additional Pieces Options

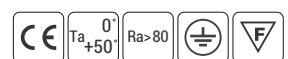


## M Mounting Options



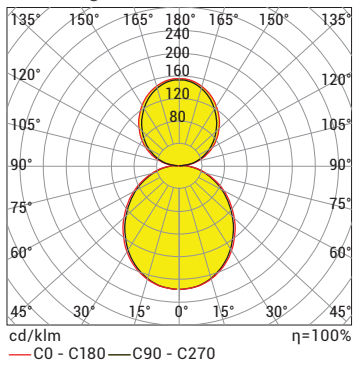
Order Code

P . W . C . S . G . E . M



## Product Diagrams

Polar Diagram



Conical Diagram

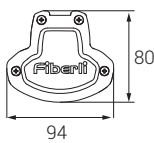
H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	1.40	1221
1.0	2.80	305
1.5	4.21	136
2.0	5.61	76
2.5	7.01	49
3.0	8.41	34

EPL35 CW DIRECT INDIRECT 34W 220V AC IP44D

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Suitable for surface mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLET30	WW-NW-CW	220V-240 AC	12	1.550	331	0,9
LLET60	WW-NW-CW	220V-240 AC	15	1.950	636	1,5
LLET60	WW-NW-CW	220V-240 AC	22	2.850	636	1,5
LLET120	WW-NW-CW	220V-240 AC	29	3.775	1236	2,8
LLET120	WW-NW-CW	220V-240 AC	42	5.450	1236	2,8
LLET160	WW-NW-CW	220V-240 AC	55	7.150	1636	3,8
LLET160	WW-NW-CW	220V-240 AC	85	11.050	1636	3,8

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h
- 16 Radar Sensor

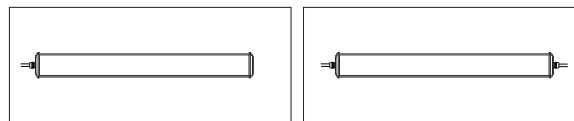
## J Junction Options



01: Cable

02: IP Socket

## K Cable Direction Options



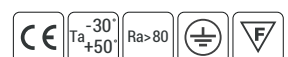
01: Single Entry

03: Dual end exit and entry



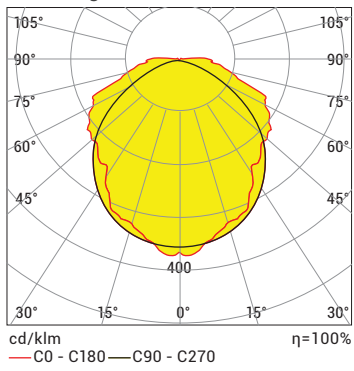
Order Code

P . W . C . S . J . K . U . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	1,86	14114
1.0	3,73	3528
1.5	5,59	1568
2.0	7,46	882
2.5	9,32	565
3.0	11,19	392

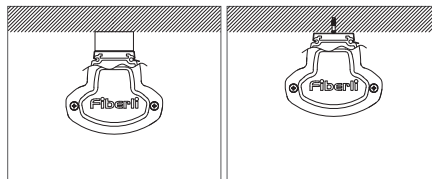
LLET 160 CW 120D 85W 220V AC IP66 TRA. COVER

## U Upper Cover Options



01: Diffused     02: Transparent

## M Mounting Options

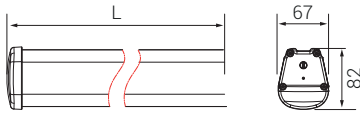


25: Pendant mount     26: Surface mount

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Anodized aluminum extrusion profile body
- UV protected PVC end caps
- High efficient PMMA diffuser
- Stainless steel mounting brackets
- Hidden IP67 gland
- Optional emergency lighting kit

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLEN60-PRO	WW-NW-CW	220V-240 AC	22	3.300	624	1,1
LLEN120-PRO	WW-NW-CW	220V-240 AC	29	4.350	1224	2,0
LLEN120-PRO	WW-NW-CW	220V-240 AC	40	6.000	1224	2,0
LLEN160-PRO	WW-NW-CW	220V-240 AC	40	6.000	1624	3,5
LLEN160-PRO	WW-NW-CW	220V-240 AC	55	8.250	1624	3,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## U Upper Cover Options

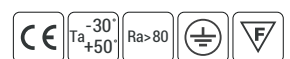


01: Diffused      02: Transparent



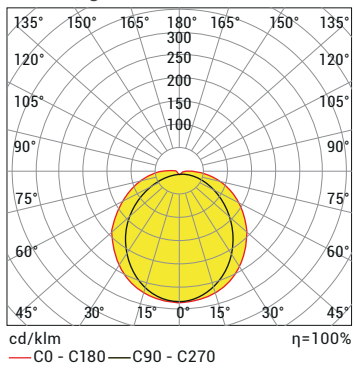
Order Code

P . W . C . S . U



## Product Diagrams

Polar Diagram



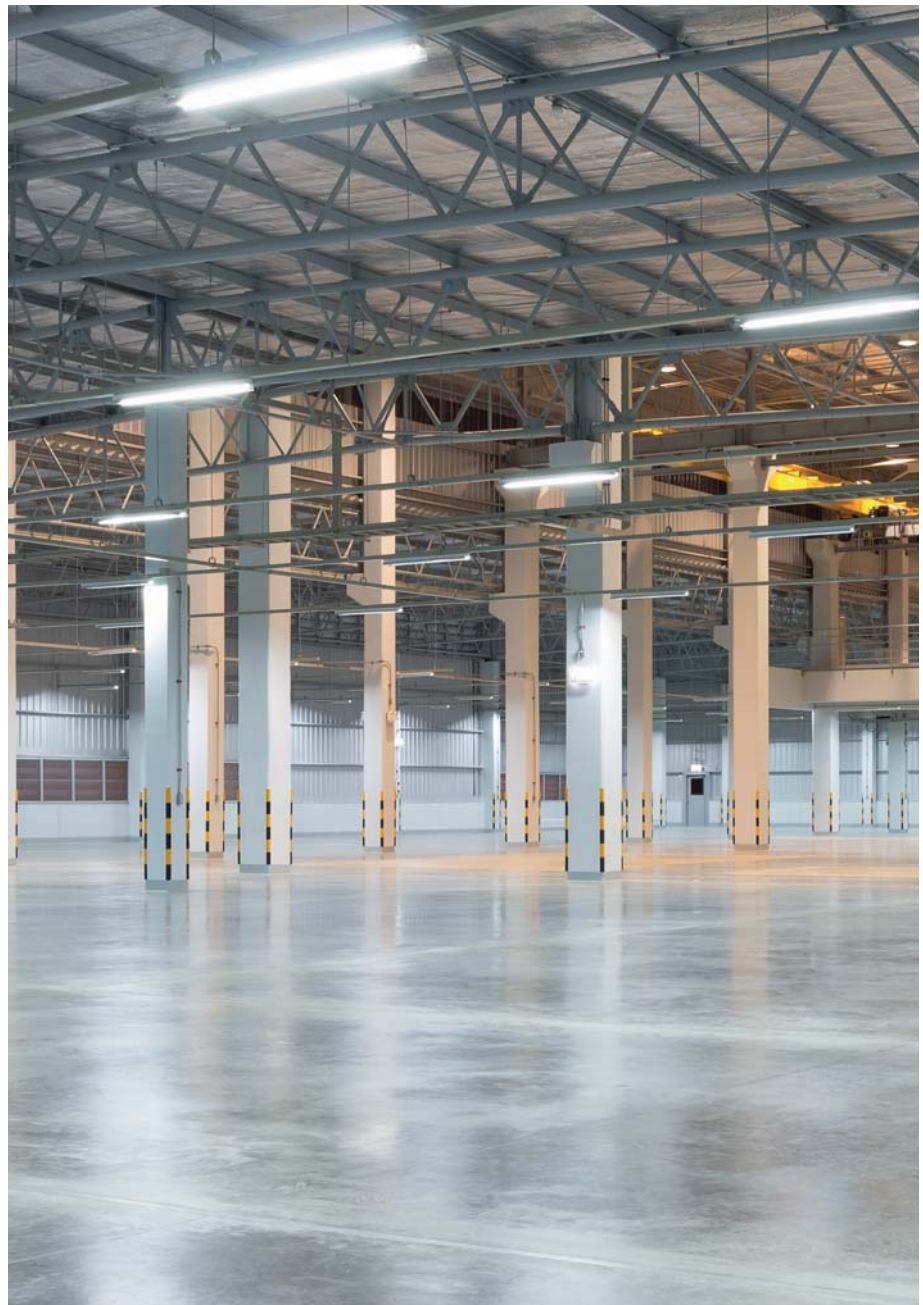
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	2.18	6686
1.0	4.37	1671
1.5	6.55	743
2.0	8.74	418
2.5	10.92	267
3.0	13.11	186

LLEN120-PRO NW40 40W 220VAC IP65

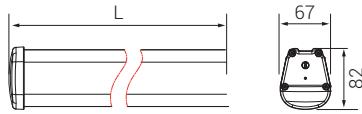
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Industrial Factory Lighting





- Anodized aluminum extrusion profile body
- UV protected PVC end caps
- High efficient PMMA diffuser
- Stainless steel mounting brackets
- Hidden IP67 gland
- Optional emergency lighting kit

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLEN120-TECO	WW-NW-CW	220V-240 AC	29	3.190	1224	2,0
LLEN120-TECO	WW-NW-CW	220V-240 AC	40	4.400	1224	2,0
LLEN160-TECO	WW-NW-CW	220V-240 AC	40	4.400	1624	3,5
LLEN160-TECO	WW-NW-CW	220V-240 AC	55	6.050	1624	3,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

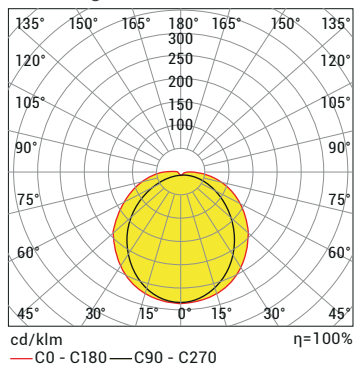
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams

Polar Diagram



Conical Diagram

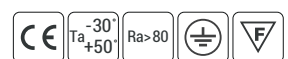
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	2.32	6686
1.0	4.64	1671
1.5	6.97	743
2.0	9.29	418
2.5	11.61	267
3.0	13.93	186

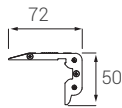
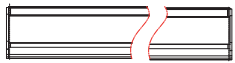
LLEN120-TECO CW65 40W 220VAC IP65



Order Code

P . W . C





- Black anodised aluminum extrusion profile
- Homogeneous light with an opaque polycarbonate tube
- Two-way lighting, top and bottom
- Rubber non-slip strip
- Surface mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture model	Weight (kg/mt)
LLST	WW-NW-CW	24V DC	9,6	480	Direct+Indirect	1,3
LLST	WW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	NW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	CW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	R,G,B,A	24V DC	4,8	-	Direct	1,2

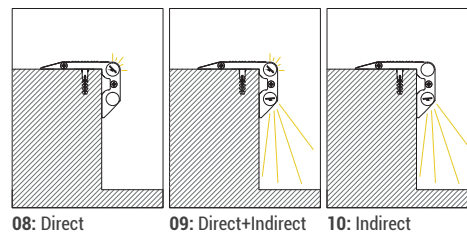
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
	● A: Amber 590nm

\*Different colors are optional

## E Additional Pieces Options



08: Direct

09: Direct+Indirect

10: Indirect

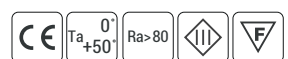
## Control System Options

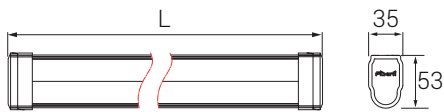
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . E





- Anodized aluminum extruded profile
- PVC end caps with increased UV resistance
- High efficiency semi-transparent or opal PC diffuser
- Stainless steel mounting clip and hanger part

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
LLTMS60	WW-NW-CW	220-240V AC	7	915	631	0,7
LLTMS60	WW-NW-CW	220-240V AC	16	2.110	631	0,7
LLTMS120	WW-NW-CW	220-240V AC	16	2.080	1231	1,2
LLTMS120	WW-NW-CW	220-240V AC	35	4.550	1231	1,2
LLTMS160	WW-NW-CW	220-240V AC	24	3.120	1631	1,5
LLTMS160	WW-NW-CW	220-240V AC	42	5.450	1631	1,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional

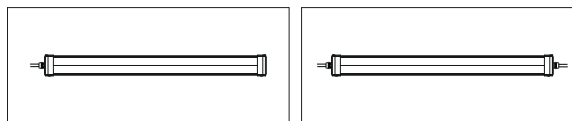
## J Junction Options



01: Cable

02: IP Socket

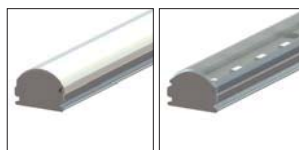
## K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

## U Upper Cover Options



01: Diffused

02: Transparent



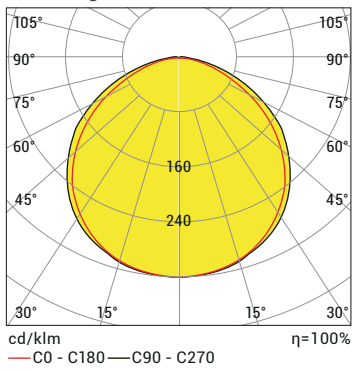
Order Code

P . W . C . J . K . U



## Product Diagrams

Polar Diagram



Conical Diagram

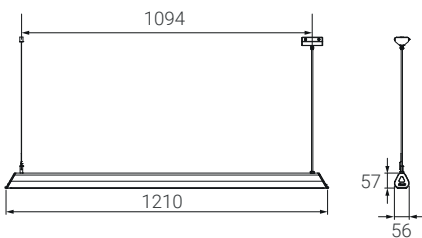
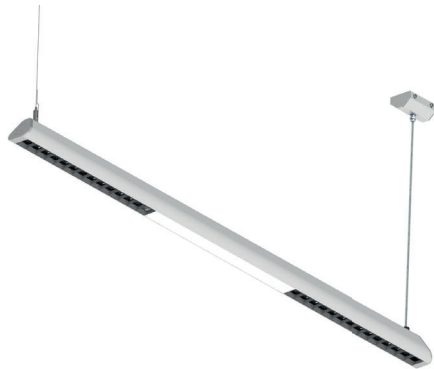
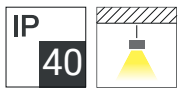
H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.70	5762
1.0	3.41	1440
1.5	5.11	640
2.0	6.82	360
2.5	8.52	230
3.0	10.23	160

LLTMS 120 CW 35W 220V AC IP54

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Aluminum extruded profile
- UV protected PVC side cover
- Lens, diffuser and combined upper cover version options
- Height adjustable steel suspension wire (max 2m)
- Stainless fittings

## P W Product & Power Options

Product Name	Version	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DELTA350-120	Optical	WW-NW-CW	220-240V AC	30	3.288	2,6
DELTA350-120	Optical	WW-NW-CW	220-240V AC	42	4.076	2,6
DELTA35D-120	Diffuser	WW-NW-CW	220-240V AC	30	2.426	2,2
DELTA35D-120	Diffuser	WW-NW-CW	220-240V AC	42	3.549	2,3
DELTA35C-120	Optical + Diffuser	WW-NW-CW	220-240V AC	30	3.438	2,9
DELTA35C-120	Optical + Diffuser	WW-NW-CW	220-240V AC	42	3.851	2,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



M: Medium Angle

## G Housing Color/Coating Options

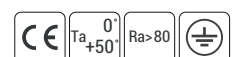


01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut



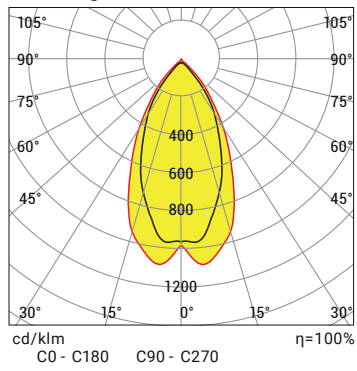
Order Code

P . W . C . S . O . G

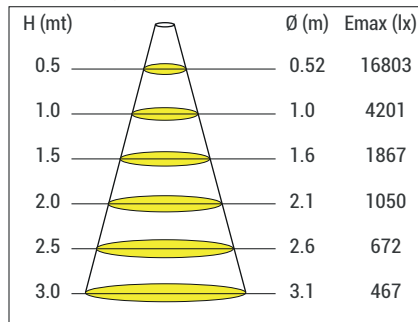


## Product Diagrams

Polar Diagram



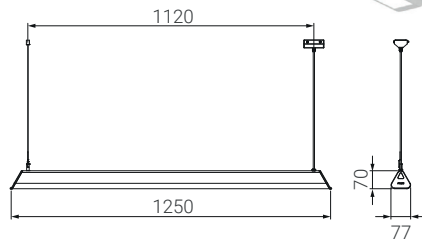
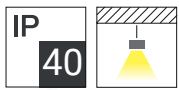
Conical Diagram



DELTA350-120\_A0002 NW40 50D 40W 220VAC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Aluminum extruded profile
- UV protected PVC side cover
- UV protected polycarbonate front cover
- Height adjustable steel suspension wire (max 2m)
- Stainless fittings

**P W** Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DELTA50D-120	WW-NW-CW	220-240V AC	30	2.976	3,1
DELTA50D-120	WW-NW-CW	220-240V AC	42	4.341	3,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

**C** Light Color Options

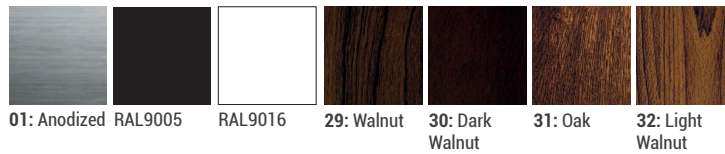
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional.

**S** Driver Options

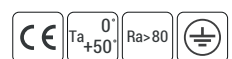
- 01 Standard Driver
- 06 DALI Driver

**G** Housing Color/Coating Options



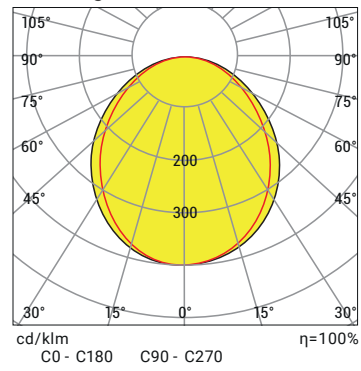
Order Code

P . W . C . S . G

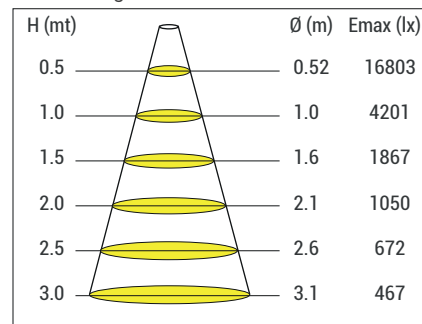


## Product Diagrams

Polar Diagram



Conical Diagram

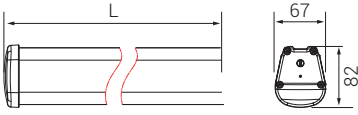
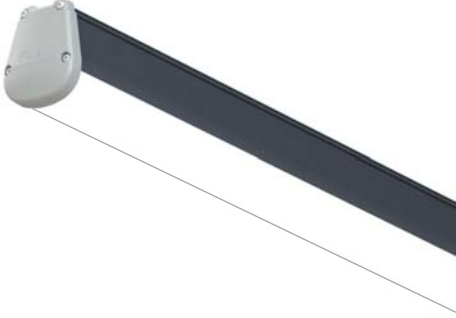


DELTA350-120\_A0002 NW40 50D 40W 220VAC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Yüksek verimli etanj armatür
- Plastik ekstrüzyon gövde
- UV dayanımı yüksek, PVC bitiş kapakları
- Homojen ışık çıkışı sağlayan yüksek verimli difüzör
- Paslanmaz bağlantı parçaları
- Opsiyonel DALI ve Acil Kit uygulaması

## P W Ürün ve Güç Seçenekleri

Ürün Adı	Işık Rengi	Voltaj (V)	Güç (W)	Işık Akısı (lm)	Uzunluk (mm)	Ağırlık (kg)
RODA60	WW-NW-CW	220V-240 AC	22	2.440	624	0,7
RODA120	WW-NW-CW	220V-240 AC	29	3.210	1224	1,3
RODA120	WW-NW-CW	220V-240 AC	40	4.440	1224	1,3
RODA160	WW-NW-CW	220V-240 AC	55	6.105	1624	2,1

\*Güç ve lümen değerleri soğuk beyaz (CW) için verilmiştir.

## C Işık Rengi Seçenekleri

● WW: Sıcak Beyaz	3000K
● NW: Doğal Beyaz	4000K
● CW: Soğuk Beyaz	6500K

## S Sürücü Seçenekleri

01 Standart Driver

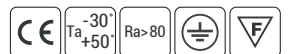
06 DALI Driver

ACK Acil Durum Kiti 3sa



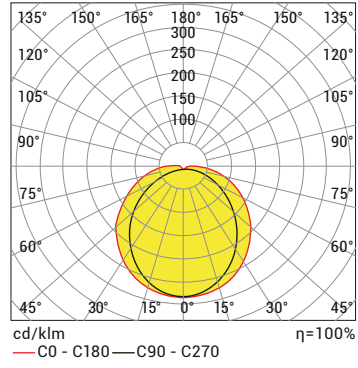
Sipariş Kodu

P . W . C . S

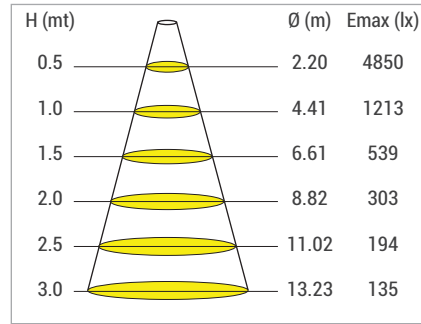


## Ürün Diyagramları

Polar Diyagramı



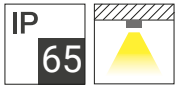
Koni Diyagramı



RODA120 CW65 40W 220VAC IP65

## Kontrol Sistemi Seçenekleri

Renk Tipi	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



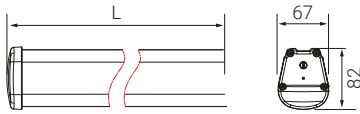
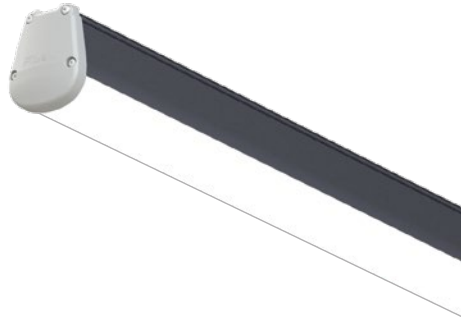
**P W** Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
RODA 120-EVO	WW-NW-CW	220V-240 AC	38	4.178	1224	1,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

**C** Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

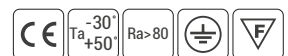


- High efficiency waterproof LED luminaire
- Extruded PC body
- UV protected PVC end caps
- High efficiency diffuser with homogeneous light output
- Stainless fittings



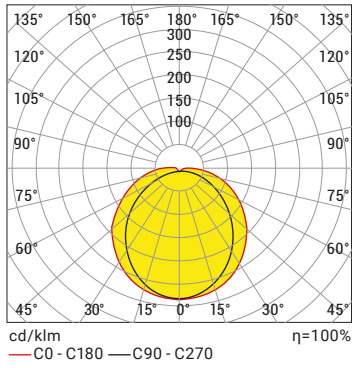
Order Code

P . W . C



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	2.20	4850
1.0	4.41	1213
1.5	6.61	539
2.0	8.82	303
2.5	11.02	194
3.0	13.23	135

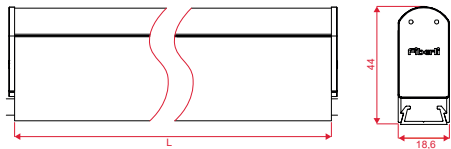
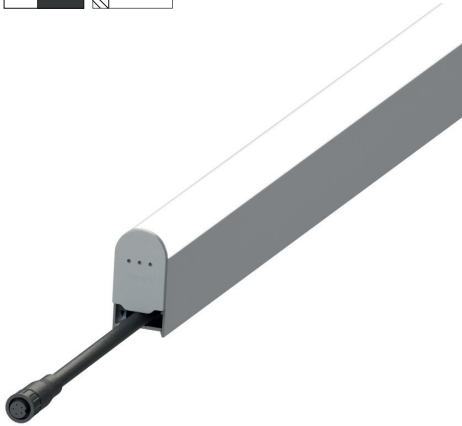
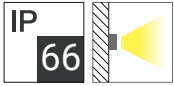
RODA120 CW65 38W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW <span style="color: yellow;">●</span> <span style="color: lightblue;">●</span>						



Namtek Factory, Denizli



## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux(lm)	LED Quantity LED/M (T)	Piksel Count	Length (L) (mm)
C-LINE-18-MONO	WW-NW-CW	48V DC	1,4	91	60	-	205
C-LINE-18-MONO	WW-NW-CW	48V DC	4,2	273	60	-	605
C-LINE-18-MONO	WW-NW-CW	48V DC	8,4	546	60	-	1205
C-LINE-18-RGB	RGB	48V DC	1,4	-	30	1	205
C-LINE-18-RGB	RGB	48V DC	1,4	-	60	2	205
C-LINE-18-RGB	RGB	48V DC	4,2	-	30	3	605
C-LINE-18-RGB	RGB	48V DC	4,2	-	60	6	605
C-LINE-18-RGB	RGB	48V DC	8,4	-	30	6	1205
C-LINE-18-RGB	RGB	48V DC	8,4	-	60	12	1205
C-LINE-18-RGBW	RGBW	48V DC	1,8	-	30	1	205
C-LINE-18-RGBW	RGBW	48V DC	1,8	-	60	2	205
C-LINE-18-RGBW	RGBW	48V DC	5,4	-	30	3	605
C-LINE-18-RGBW	RGBW	48V DC	5,4	-	60	6	605
C-LINE-18-RGBW	RGBW	48V DC	10,8	-	30	6	1205
C-LINE-18-RGBW	RGBW	48V DC	10,8	-	60	12	1205

\*Power and Lumen values provided are based off of a "cold white (CW) LED".



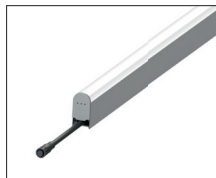
- Thanks to Balanced HV Technology, it eliminates the necessity for feedback, ensuring effortless project design and time savings.
- True Color provides original colors throughout the entire project.
- The Lock & Light System, with its socketed connection structure, withstands all challenging conditions.

## C Light Color Options

● WW: Warm White	3000K	● RGB
● NW: Natural White	4000K	● RGBW
● CW: Cold White	6500K	

\*Different colors are optional

## U Upper Cover Options

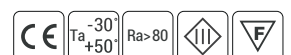


Oval Cover



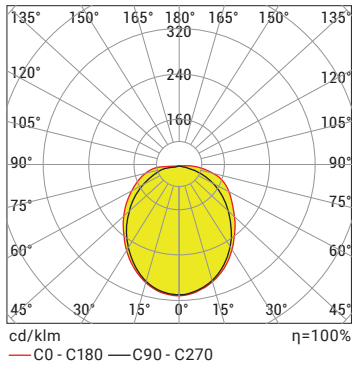
Order Code

P . W . C . U . M

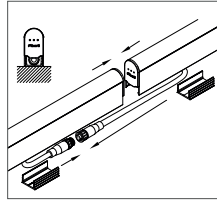


## Product Diagrams




Polar Diagram



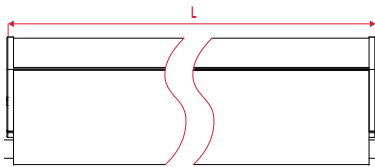
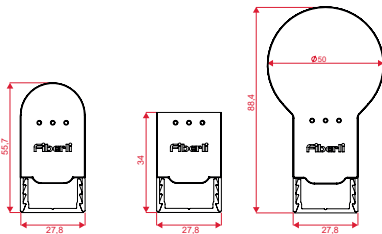
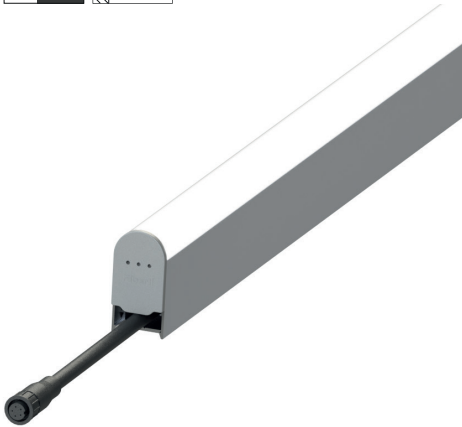
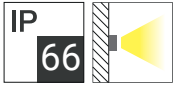
## M Mounting Options



## Control System Options

Color Type	PWM	DMX
WW-NW-CW 	•	
RGB 		•
RGBA/W 		•





- Thanks to Balanced HV Technology, it eliminates the necessity for feedback, ensuring effortless project design and time savings.
- True Color provides original colors throughout the entire project.
- The Lock & Light System, with its socketed connection structure, withstands all challenging conditions.

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux(lm)	LED Quantity LED/mt	Piksel Count	Length (L) (mm)
C-LINE-28-MONO	WW-NW-CW	48V DC	1,4	102	60	-	205
C-LINE-28-MONO	WW-NW-CW	48V DC	4,2	306	60	-	605
C-LINE-28-MONO	WW-NW-CW	48V DC	8,4	613	60	-	1205
C-LINE-28-RGB	RGB	48V DC	1,4	-	30	1	205
C-LINE-28-RGB	RGB	48V DC	1,4	-	60	2	205
C-LINE-28-RGB	RGB	48V DC	4,2	-	30	3	605
C-LINE-28-RGB	RGB	48V DC	4,2	-	60	6	605
C-LINE-28-RGB	RGB	48V DC	8,4	-	30	6	1205
C-LINE-28-RGB	RGB	48V DC	8,4	-	60	12	1205
C-LINE-28-RGBW	RGBW	48V DC	1,8	-	30	1	205
C-LINE-28-RGBW	RGBW	48V DC	1,8	-	60	2	205
C-LINE-28-RGBW	RGBW	48V DC	5,4	-	30	3	605
C-LINE-28-RGBW	RGBW	48V DC	5,4	-	60	6	605
C-LINE-28-RGBW	RGBW	48V DC	10,8	-	30	6	1205
C-LINE-28-RGBW	RGBW	48V DC	10,8	-	60	12	1205

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K	● RGB
● NW: Natural White	4000K	● RGBW
● CW: Cold White	6500K	

\*Different colors are optional

## U Upper Cover Options



Flat Cover

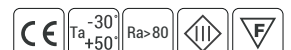
Oval Cover

Convex Cover



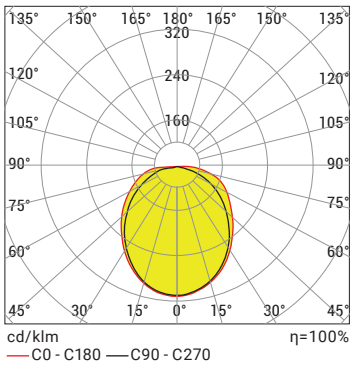
Order Code

P . W . C . U . M

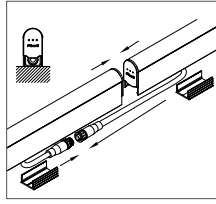





## Product Diagrams

Polar Diagram



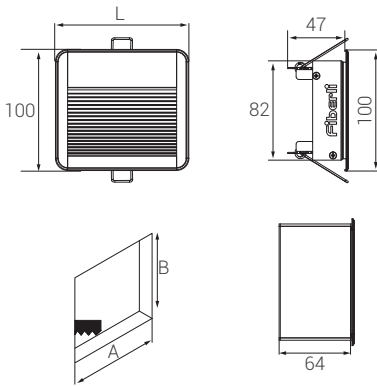
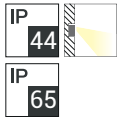
## M Mounting Options



Color Type	PWM	DMX
WW-NW-CW 	•	
RGB 		•
RGBA/W 		•







- Min. 20 micron anodized aluminum extruded profile.
- PVC side cover with UV protection
- Cooling capacity up to 12 W/m
- Suitable for recessed mounting on the ceiling

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Cutting Dimensions (AxB)(mm)	Length (L) (mm)	Weight (kg)
LLGEN105	WW-NW-CW	220-240V AC	3	95	106x88	110	0,5
LLGEN170	WW-NW-CW	220-240V AC	7	200	171x88	175	0,9
LLGEN235	WW-NW-CW	220-240V AC	10	360	236x88	240	1,3
LLGEN105	WW-NW-CW	24V DC	3	95	106x88	110	0,4
LLGEN170	WW-NW-CW	24V DC	7	200	171x88	175	0,7
LLGEN235	WW-NW-CW	24V DC	10	360	236x88	240	1,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

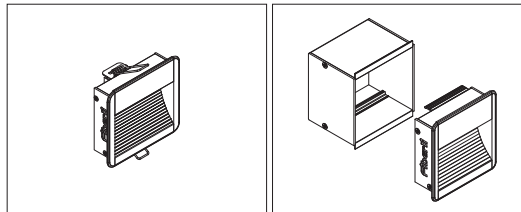
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## I IP Protection Class



## M Mounting Options



27: Flush Mount

28: Wall Mount



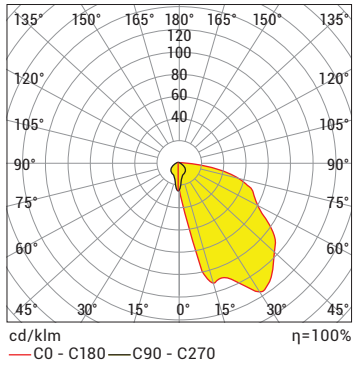
Order Code

P . W . C . I . M



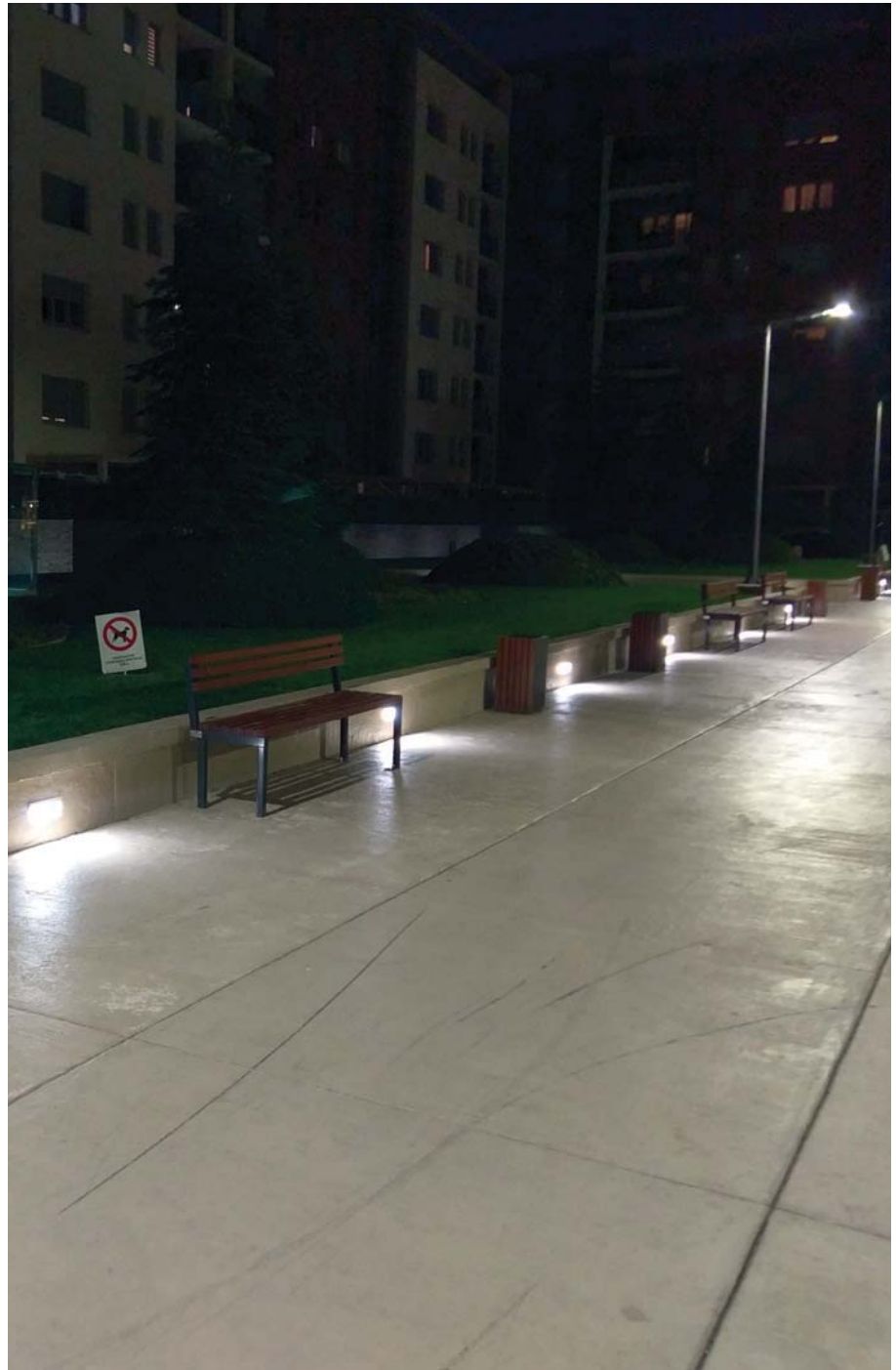
## Product Diagrams

Polar Diagram

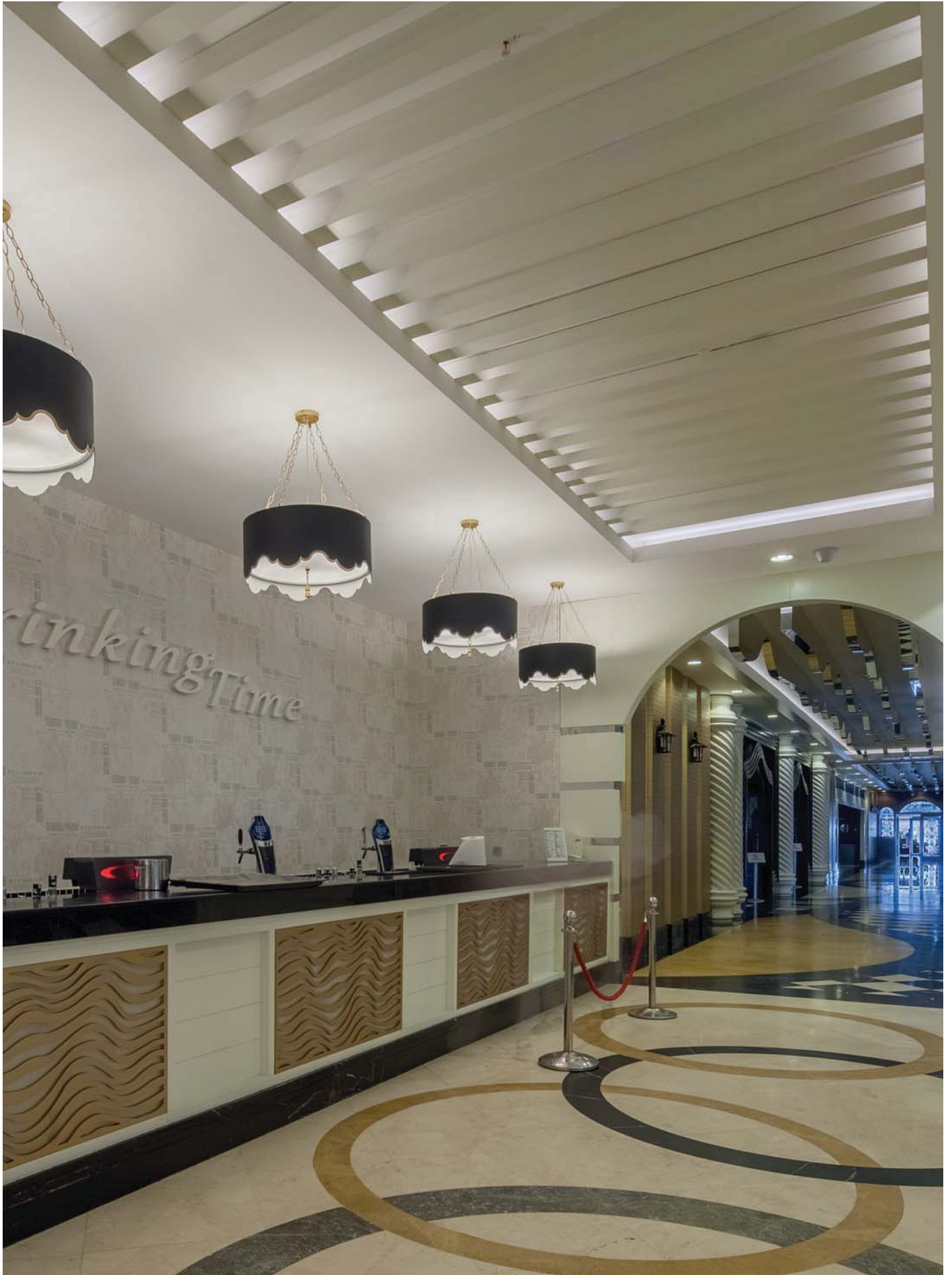


## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



# LEDLine





# DecoPendant Luminaires

LL

**DP**

CD

WW

CG

CS

CF

AC

CB

HB

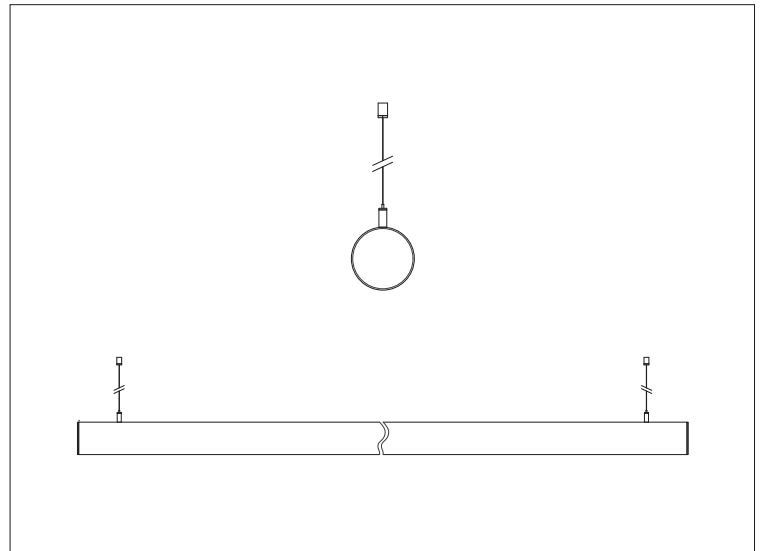
MM

RDMX

LC

FO

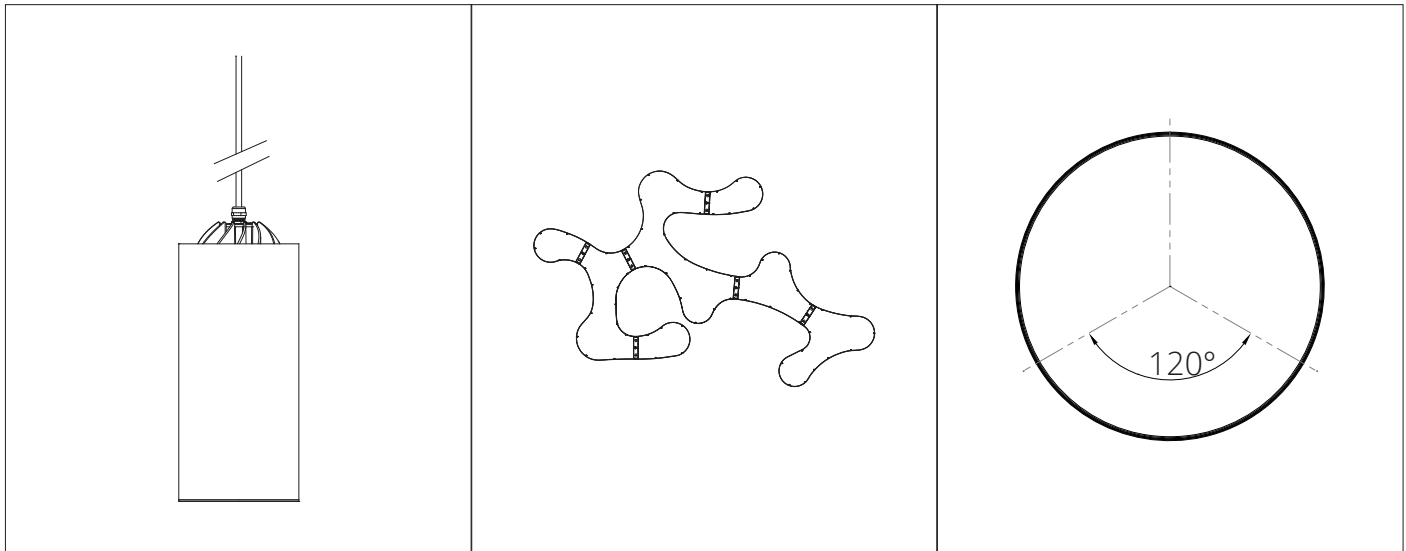
EL



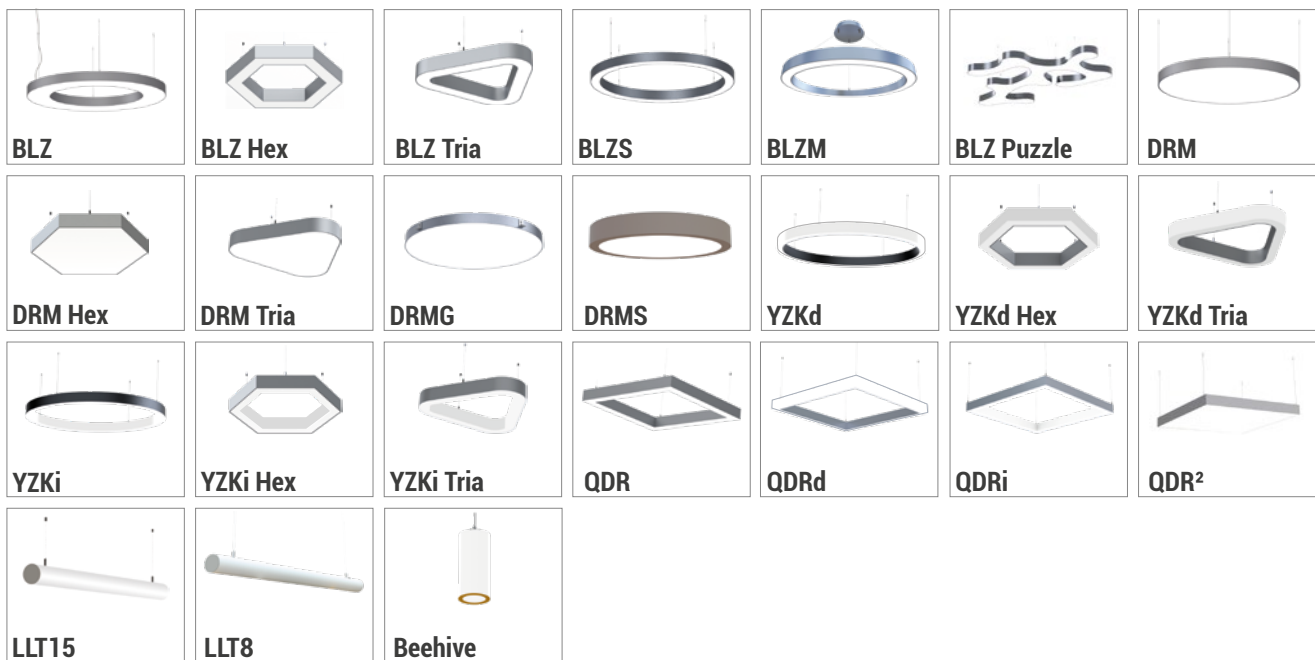
## **DecoPendant**

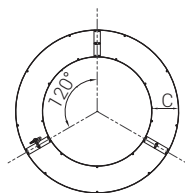
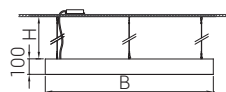
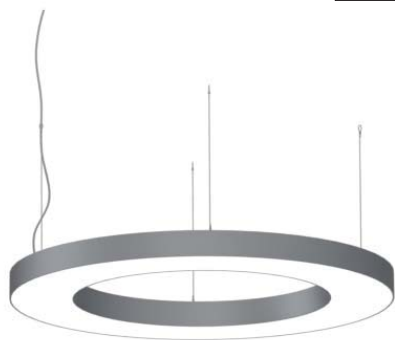
The DecoPendant series offers decorative lighting solutions with its aesthetic, modern design for venues such as shopping malls, hotels, restaurants and libraries. The luminaires can be mounted as recessed on the ceiling or suspended from the ceiling. Additionally, as the luminaires can easily be applied with simple mounting brackets, they are often preferred by interior architects.

# DecoPendant Luminaires



## DecoPendant - Decorative Luminaires





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size.

## P W Product & Power Options

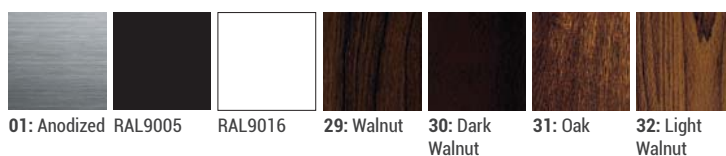
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (BxC) (mm)	Weight (kg)
BLZ90	WW-NW-CW	24V DC	105	7.875	900x150	7,3
BLZ90	WW-NW-CW	24V DC	150	11.250	900x150	7,3
BLZ120	WW-NW-CW	24V DC	150	11.250	1200x200	9,7
BLZ120	WW-NW-CW	24V DC	200	15.000	1200x200	9,7
BLZ150	WW-NW-CW	24V DC	250	18.750	1500x250	12,2
BLZ150	WW-NW-CW	24V DC	380	28.500	1500x250	12,2
BLZ180	WW-NW-CW	24V DC	300	22.500	1800x300	14,6
BLZ180	WW-NW-CW	24V DC	440	33.000	1800x300	14,6
BLZ90	RGB	24V DC	62	-	900x150	7,3
BLZ120	RGB	24V DC	87	-	1200x200	9,7
BLZ150	RGB	24V DC	145	-	1500x250	12,2
BLZ180	RGB	24V DC	175	-	1800x300	14,6

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options



Order Code

P . W . C . G





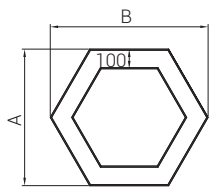
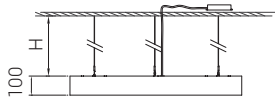
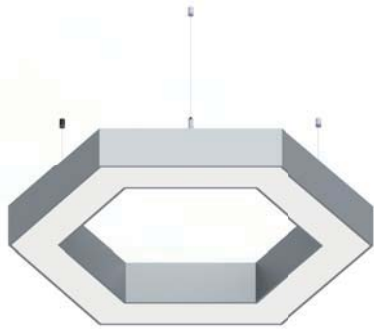
Algorithm Business Center, Russia

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W							
RGB DMX							
WHITE DMX							



Biz Cevahir Hotel, İstanbul



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

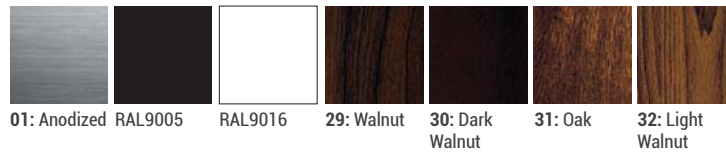
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
BLZ Hex	WW-NW-CW	24V DC	55	4.125	700x800	7,3
BLZ Hex	WW-NW-CW	24V DC	80	6.000	700x800	7,3

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## G Housing Color/Coating Options



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W						
RGB DMX						
WHITE DMX						

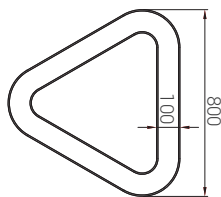
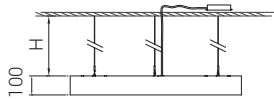


Order Code

P . W . C . G







- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

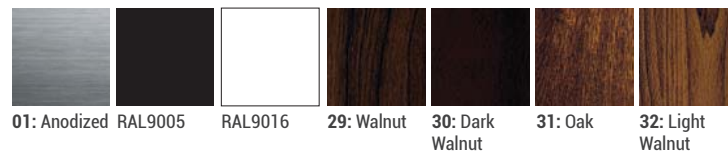
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
BLZTria	WW-NW-CW	24V DC	55	4.125	4,2
BLZTria	WW-NW-CW	24V DC	80	6.000	4,2

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## G Housing Color/Coating Options



## Control System Options

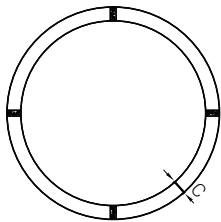
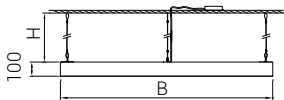
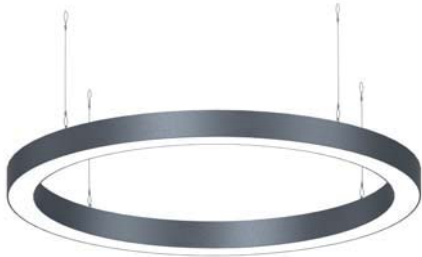
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

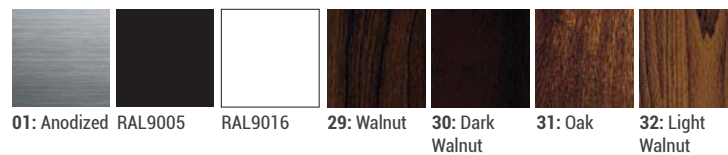
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (BxC) (mm)	Weight (kg)
BLZS90	WW-NW-CW	24V DC	60	4.500	900x100	5,7
BLZS90	WW-NW-CW	24V DC	90	6.750	900x100	5,7
BLZS120	WW-NW-CW	24V DC	85	6.375	1200x100	7,8
BLZS120	WW-NW-CW	24V DC	125	9.375	1200x100	7,8
BLZS150	WW-NW-CW	24V DC	105	7.875	1500x100	10,2
BLZS150	WW-NW-CW	24V DC	155	11.625	1500x100	10,2
BLZS180	WW-NW-CW	24V DC	130	9.750	1800x100	12,1
BLZS180	WW-NW-CW	24V DC	190	14.250	1800x100	12,1
BLZS90	RGB	24V DC	35	-	900x100	5,7
BLZS120	RGB	24V DC	50	-	1200x100	7,8
BLZS150	RGB	24V DC	60	-	1500x100	10,2
BLZS180	RGB	24V DC	75	-	1800x100	12,1

\*Power and Lumen values provided are based off of a cold white (CW) LED.

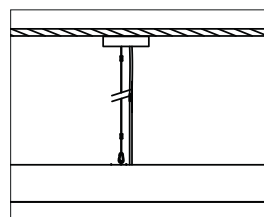
## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options



## Mounting Accessory



Driver box  
(220V LED Driver included)



Order Code

P . W . C . G





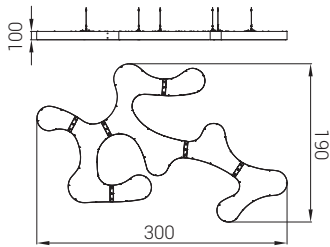
Algorithm Business Center, Russia

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W							
RGB DMX							
WHITE DMX							



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Various sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
BLZ-PUZZLE	WW-NW-CW	24V DC	250	20.000	14,3
BLZ-PUZZLE	WW-NW-CW	24V DC	500	40.000	14,3

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	● ● ● ●					
RGB	● ● ●					
RGBA/W	● ● ● ●					
RGB DMX	● ● ●					
WHITE DMX	●					



Lotus Mall, Russia

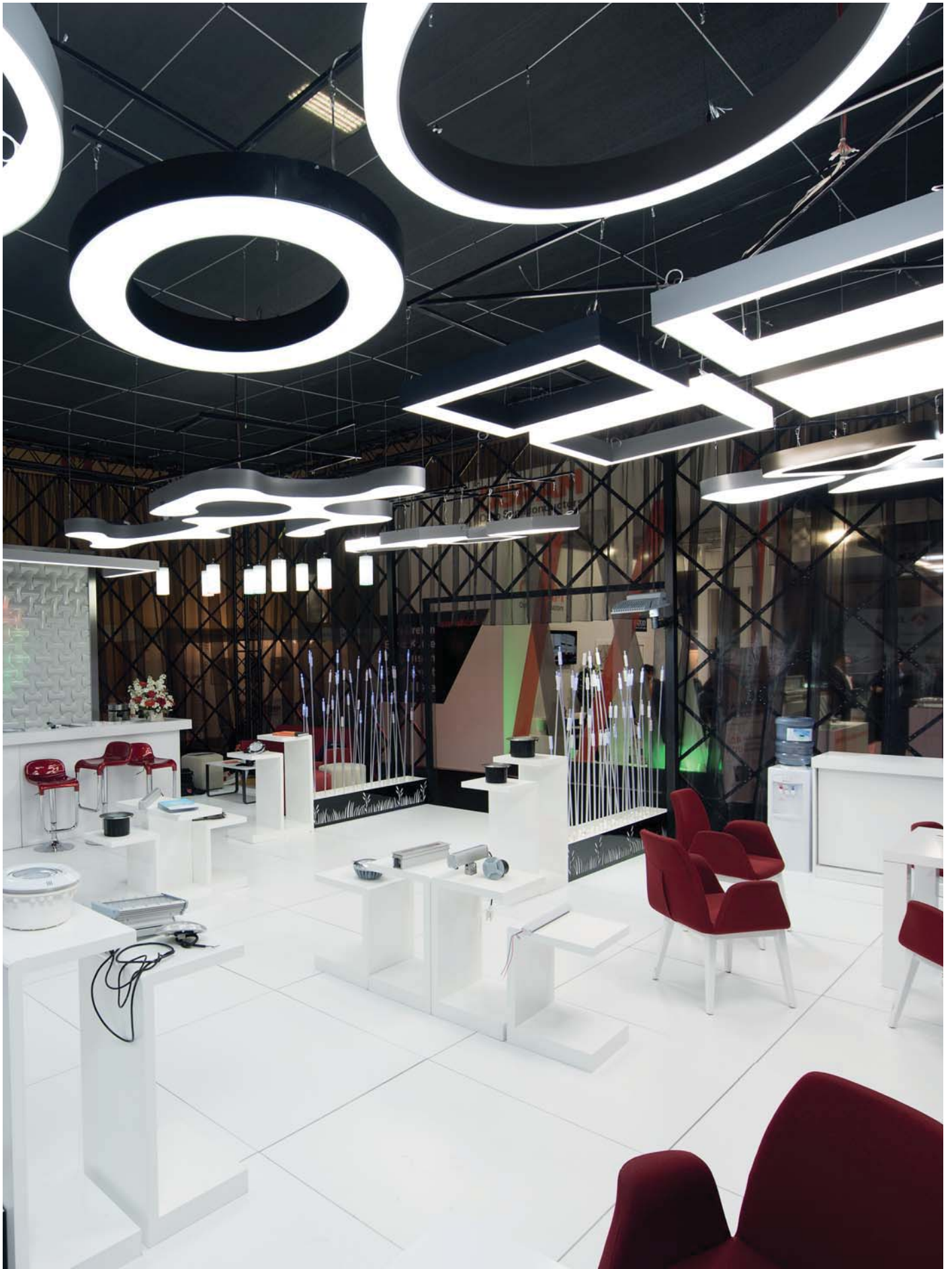


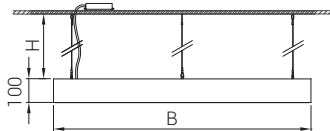
Order Code

P . W . C . G



# DecoPendant





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- 150cm and 180cm diameters PVC stretch membrane only
- Various sizes are applicable
- Plexiglas is used for the products up to 120 diameters
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

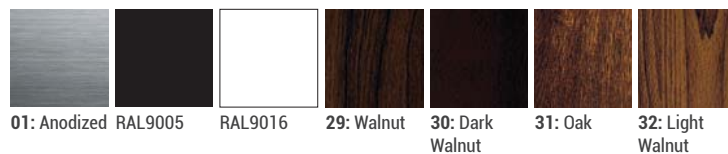
Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
DRM60	WW-NW-CW	24V DC	75	Plexiglas	5.625	600	6,4
DRM60	WW-NW-CW	24V DC	100	Plexiglas	7.500	600	6,4
DRM90	WW-NW-CW	24V DC	100	Plexiglas	7.500	900	9,5
DRM120	WW-NW-CW	24V DC	100	Plexiglas	8.000	1200	12,6
DRM120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	1200	12,6
DRM150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	1500	11,5
DRM180	WW-NW-CW	24V DC	230	PVC stretch membrane	18.400	1800	12,6
DRM120	RGB	24V DC	100	PVC stretch membrane	-	1200	12,6
DRM150	RGB	24V DC	130	PVC stretch membrane	-	1500	11,5
DRM180	RGB	24V DC	230	PVC stretch membrane	-	1800	12,6

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## G Housing Color/Coating Options



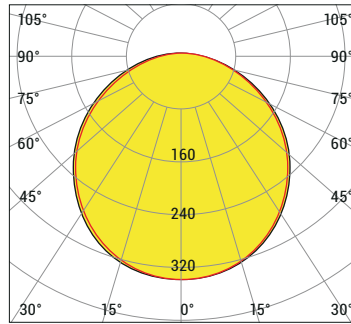
Order Code

P . W . C . G



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1,47	7601
1.0	2,94	1900
1.5	4,41	845
2.0	5,89	475
2.5	7,36	304
3.0	8,83	211

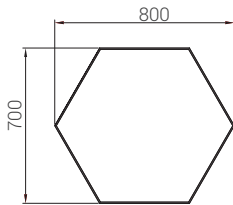
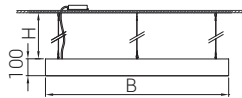
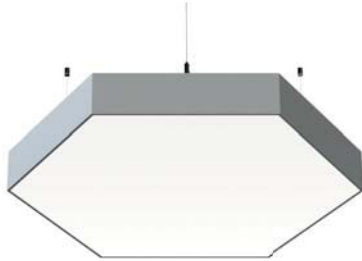
DRM 60 PLEXI CW 75W 24V DC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Family Mall, Iraq



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

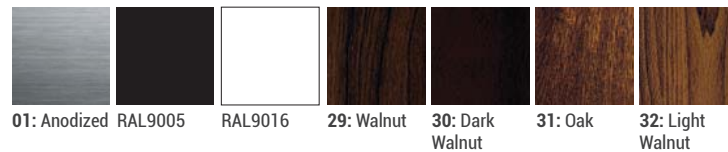
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DRM Hex	WW-NW-CW	24V DC	135	10.125	6,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

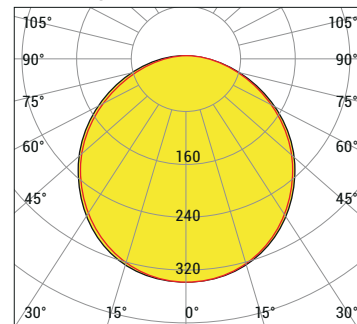
● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options



## Product Diagrams

Polar Diagram



cd/klm  $\eta=100\%$   
— C0 - C180 — C90 - C270

Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1,47	13682
1.0	2,94	3420
1.5	4,41	1520
2.0	5,89	855
2.5	7,36	547
3.0	8,83	380

DRM HEX CW 135W 24V DC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W	●					
RGB DMX	●					
WHITE DMX	●					

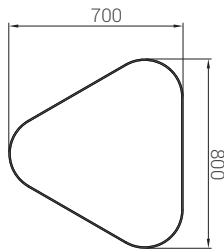
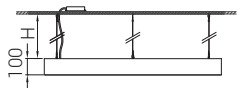
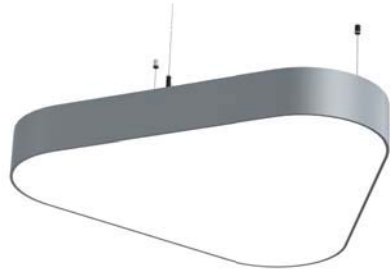


Order Code

P . W . C . G







- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

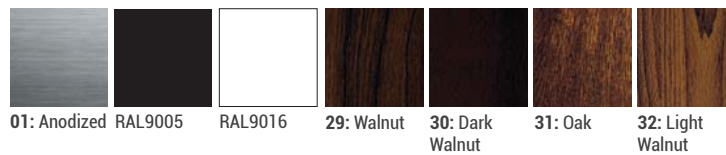
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DRM Tria	WW-NW-CW	24V DC	135	10.125	7,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

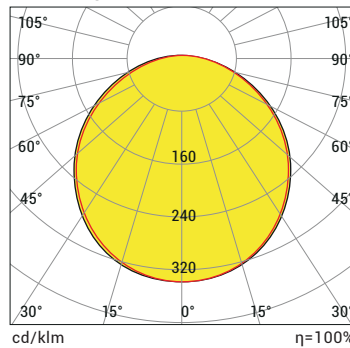
● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options

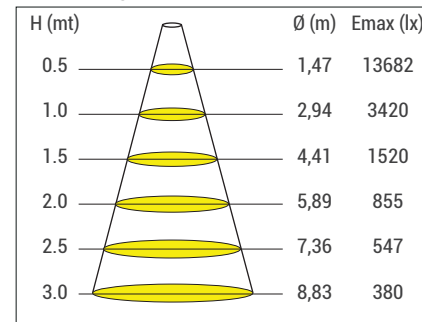


## Product Diagrams

Polar Diagram



Conical Diagram



DRM TRIA CW 135W 24V DC IP44

## Control System Options

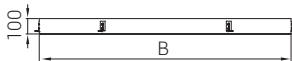
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for recess mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- 150cm and 180cm diameters PVC stretch membrane only
- Various sizes are applicable
- Plexiglas is used for the products up to 120cm diameters

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (cm)	Weight (kg)
DRMG50	WW-NW-CW	24V DC	50	Plexiglas	3.750	50	6,2
DRMG60	WW-NW-CW	24V DC	75	Plexiglas	5.625	60	6,4
DRMG60	WW-NW-CW	24V DC	100	Plexiglas	7.500	60	6,4
DRMG90	WW-NW-CW	24V DC	50	Plexiglas	3.750	90	9,5
DRMG90	WW-NW-CW	24V DC	100	Plexiglas	7.500	90	9,5
DRMG120	WW-NW-CW	24V DC	100	Plexiglas	8.000	120	12,6
DRMG120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	120	12,6
DRMG150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	150	11,5
DRMG150	WW-NW-CW	24V DC	260	PVC stretch membrane	20.800	150	11,5
DRMG180	WW-NW-CW	24V DC	200	PVC stretch membrane	16.000	180	12,6
DRMG180	WW-NW-CW	24V DC	400	PVC stretch membrane	32.000	180	12,6

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options



01:Anodized RAL9005 RAL9016



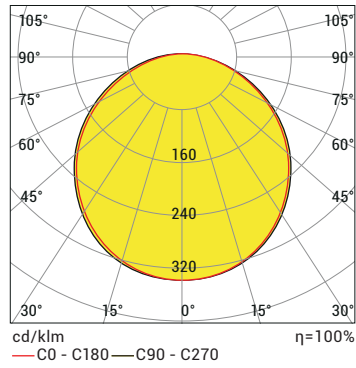
Order Code

P . W . C . G



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1,47	7601
1.0	2,94	1900
1.5	4,41	845
2.0	5,89	475
2.5	7,36	304
3.0	8,83	211

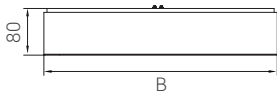
DRMG 50 PLEXI CW 50W 24V DC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Lotus Mall, Russia



- Electrostatic powder coating or anodized aluminum housing
- High efficient homogeneous light by plexy glass diffused cover
- Suitable for surface mounting
- Plexiglas is used for the products up to 100 diameters
- 120cm, 150cm and 180cm PVC diameters stretch membrane

## P W Product & Power Options

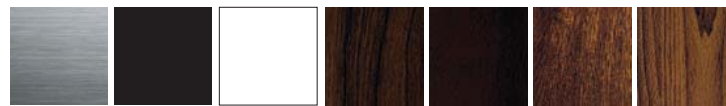
Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
DRMSM30	WW-NW-CW	24V DC	20	Plexiglas	1.500	300	3,8
DRMSM40	WW-NW-CW	24V DC	40	Plexiglas	3.000	400	4,2
DRMSM50	WW-NW-CW	24V DC	60	Plexiglas	4.500	500	5,3
DRMSM60	WW-NW-CW	24V DC	80	Plexiglas	6.000	600	6,4
DRMSM70	WW-NW-CW	24V DC	110	Plexiglas	10.125	700	7,5
DRMSM90	WW-NW-CW	24V DC	145	Plexiglas	10.875	900	9,5
DRMSM90	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	900	9,5
DRMSM120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	1200	12,6
DRMSM120	WW-NW-CW	24V DC	200	PVC stretch membrane	16.000	1200	12,6
DRMSM150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	1500	15,8
DRMSM180	WW-NW-CW	24V DC	2000	PVC stretch membrane	16.000	1800	18,9

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut\* 30: Dark\* Walnut 31: Oak\* 32: Light\* Walnut

\*Only for PVC stretch membrane



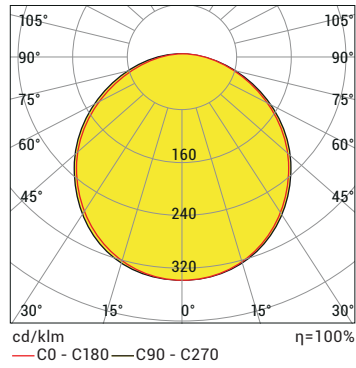
Order Code

P . W . C . G



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1,47	2027
1.0	2,94	507
1.5	4,41	225
2.0	5,89	127
2.5	7,36	81
3.0	8,83	56

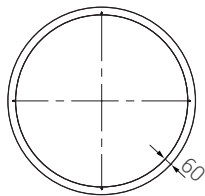
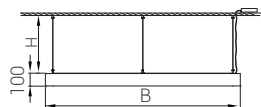
DRMS 30 PLEXI CW 20W 24V DC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Libya



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

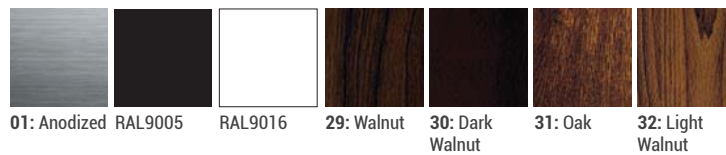
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
YZKd90	WW-NW-CW	24V DC	40	3.000	900	4,7
YZKd90	WW-NW-CW	24V DC	80	6.000	900	4,7
YZKd120	WW-NW-CW	24V DC	60	4.500	1200	6,2
YZKd120	WW-NW-CW	24V DC	120	9.000	1200	6,2
YZKd150	WW-NW-CW	24V DC	75	5.625	1500	7,8
YZKd150	WW-NW-CW	24V DC	150	11.250	1500	7,8
YZKd180	WW-NW-CW	24V DC	90	6.750	1800	9,3
YZKd180	WW-NW-CW	24V DC	180	13.500	1800	9,3

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

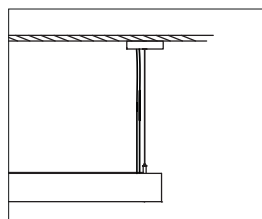
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## Mounting Accessory



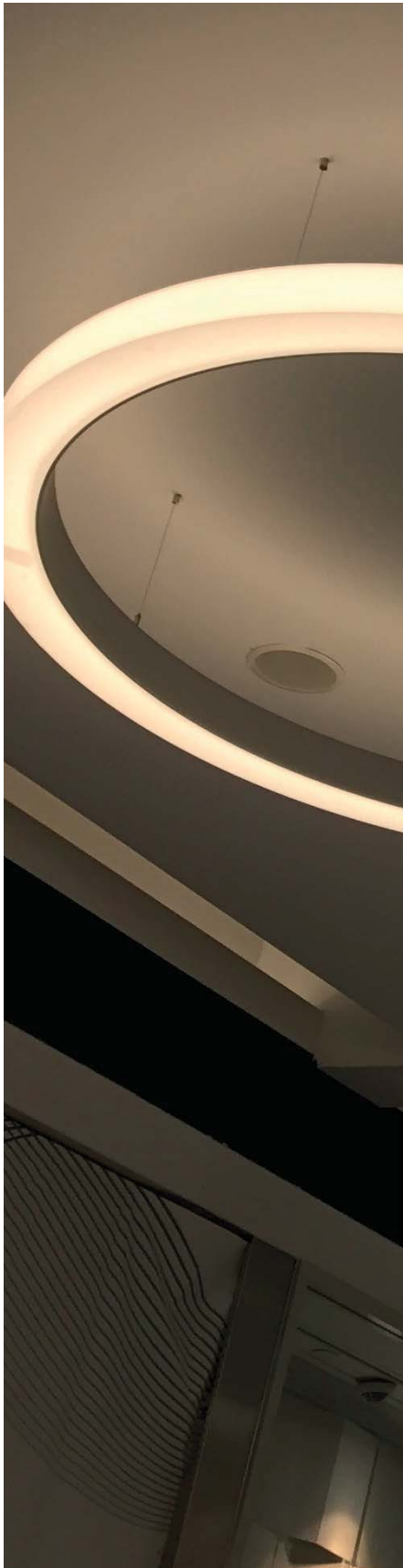
Driver box  
(220V LED Driver included)



Order Code

P . W . C . G



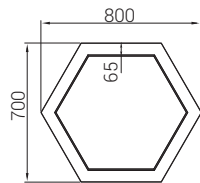
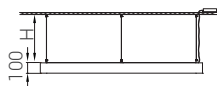


### Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
DW		•			•	•	
R,G,B,A		•			•	•	
RGB		•			•	•	
RGBA/W							
RGB DMX				•			
WHITE DMX				•			



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKdHex	WW-NW-CW	24V DC	80	6.000	3,7

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

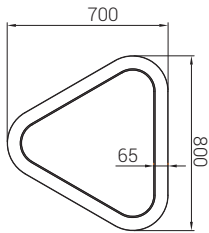
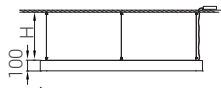


Order Code

P . W . C . G







- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

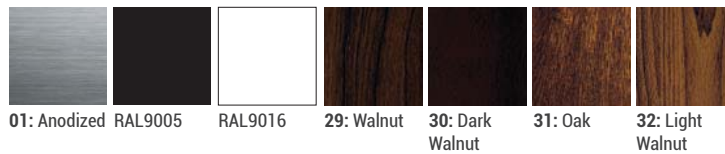
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKd Tria	WW-NW-CW	24V DC	86	6.450	3
YZKd Tria	WW-NW-CW	24V DC	48	3.600	3

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



## Control System Options

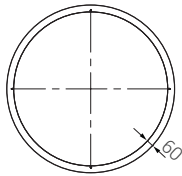
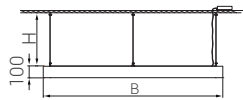
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	● ● ● ●					
RGB	● ● ●					
RGBA/W	● ● ● ●					
RGB DMX	● ● ●					
WHITE DMX	●					



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

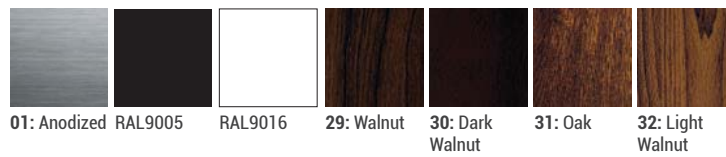
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
YZKi90	WW-NW-CW	24V DC	50	3.750	900	4,5
YZKi90	WW-NW-CW	24V DC	100	7.500	900	4,5
YZKi120	WW-NW-CW	24V DC	65	4.875	1200	6,4
YZKi120	WW-NW-CW	24V DC	130	9.750	1200	6,4
YZKi150	WW-NW-CW	24V DC	80	6.000	1500	8,3
YZKi150	WW-NW-CW	24V DC	160	12.000	1500	8,3
YZKi180	WW-NW-CW	24V DC	95	7.125	1800	10,2
YZKi180	WW-NW-CW	24V DC	180	13.500	1800	10,2

\*Power and Lumen values provided are based off of a cold white (CW) LED.

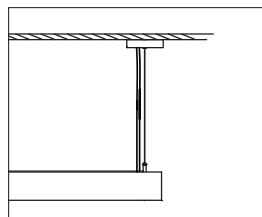
## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



## Mounting Accessory



Driver box  
(220V LED Driver included)









Order Code

P . W . C . G

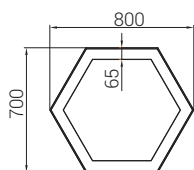
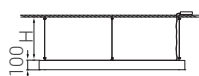
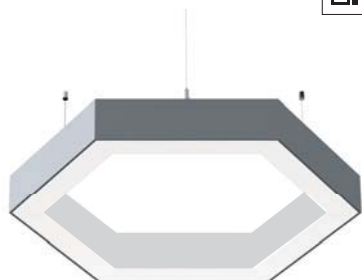


## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•			•	•	
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKi Hex	WW-NW-CW	24V DC	80	6.000	3,7

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

- WW: Warm White 3000K
- NW: Natural White 4000K
- CW: Cold White 6500K

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

## Control System Options

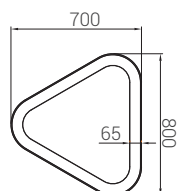
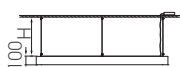
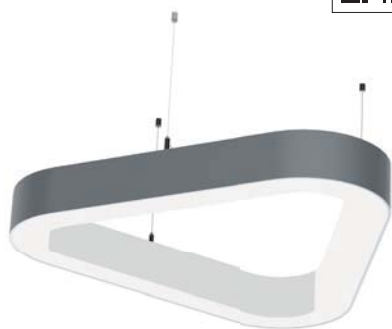
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

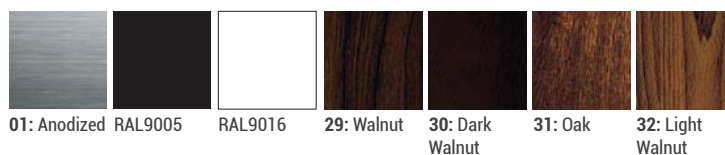
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKi Tria	WW-NW-CW	24V DC	45	3.375	2,9
YZKi Tria	WW-NW-CW	24V DC	90	6.750	2,9

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



## Control System Options

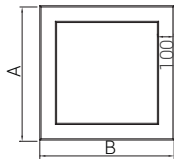
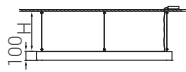
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





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- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

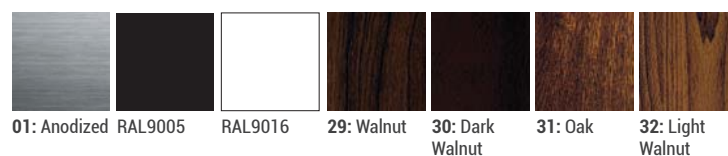
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDR6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDR6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDR9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDR9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDR120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDR120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDR150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDR150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDR180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDR180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

## G Housing Color/Coating Options









Order Code

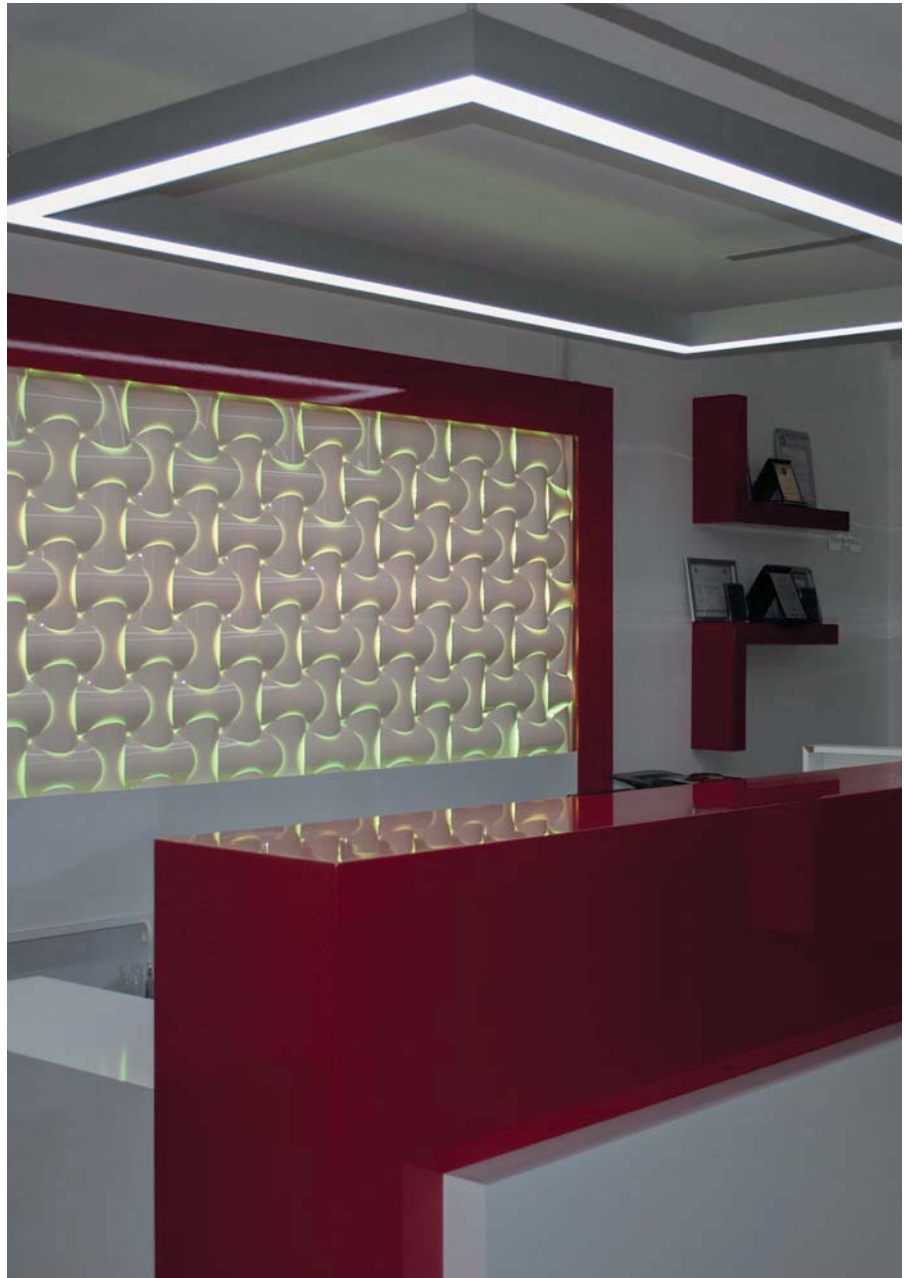
P . W . C . G



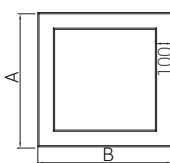
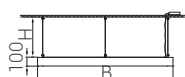
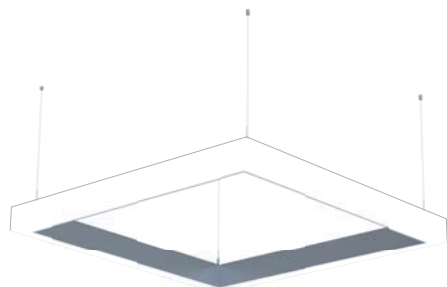


### Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 	•					
RGB DMX 			•			
WHITE DMX 			•			



Fiberli, Antalya



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDRd6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDRd6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDRd9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDRd9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDRd120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDRd120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDRd150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDRd150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDRd180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDRd180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
● A: Amber 590nm		

## G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

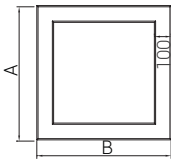
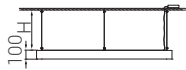


Order Code

P . W . C . G







- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
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- Product length standards are; 90cm, 120cm, 150cm and 180cm
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- Different colors are applicable for the housing
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- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

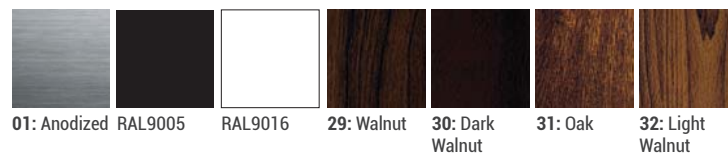
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDRi6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDRi6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDRi9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDRi9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDRi120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDRi120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDRi150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDRi150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDRi180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDRi180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

## G Housing Color/Coating Options



## Control System Options

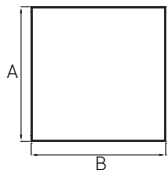
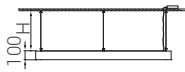
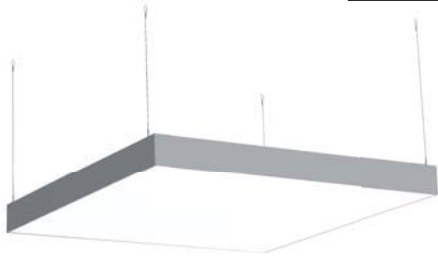
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDR <sup>2</sup> 6060	WW-NW-CW	24V DC	24	1.800	600x600	6,3
QDR <sup>2</sup> 6060	WW-NW-CW	24V DC	64	4.800	600x600	6,3
QDR <sup>2</sup> 60120	WW-NW-CW	24V DC	128	9.600	600x1200	11,2
QDR <sup>2</sup> 60120	WW-NW-CW	24V DC	202	15.150	600x1200	11,2
QDR <sup>2</sup> 120120	WW-NW-CW	24V DC	300	22.500	1200x1200	10,8

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color/Coating Options



01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut



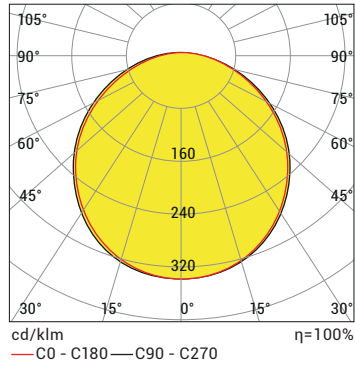
Order Code

P . W . C . G

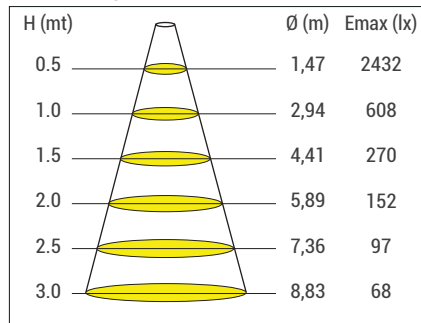


## Product Diagrams

Polar Diagram



Conical Diagram



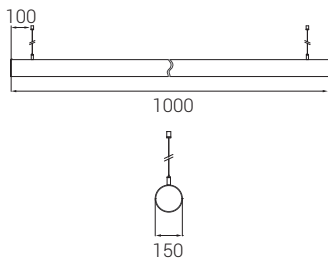
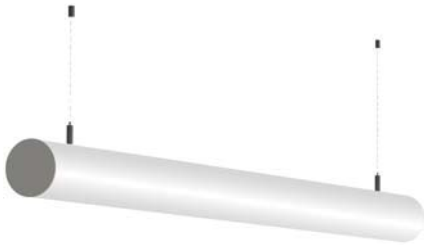
QDR<sup>2</sup> 60x60 CW 24W 24V DC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Showroom, Antalya



- UV protective polycarbonate housing
- Plexiglas side cover
- Suitable for pendant mounting
- Each piece can be produced at a max. length of 2m

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
LLT15-60LED	WW-NW-CW	24V DC	24	1.800	3,5
LLT15-90LED	WW-NW-CW	24V DC	36	2.700	3,5

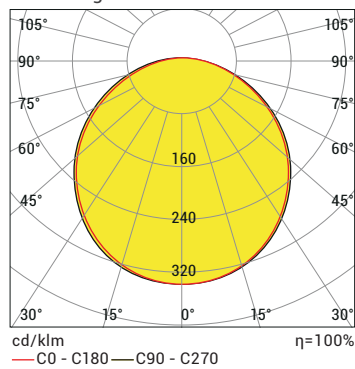
\*Power and Lumen values provided are based off of a cold white (CW) LED.  
 \*\* 1,5 m steel wire hangers are included.

## C Light Color Options

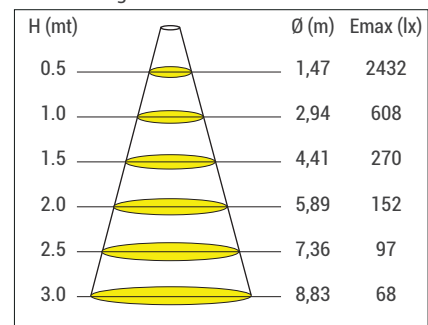
● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

## Product Diagrams

Polar Diagram



Conical Diagram



LLT15 60 LED CW 24W 24V DC IP44

## Control System Options

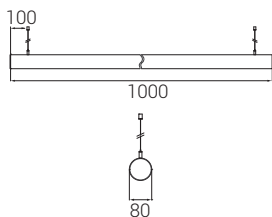
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W	●					
RGB DMX			●			
WHITE DMX			●			



Order Code

P . W . C





- UV protective polycarbonate housing
- Plexiglas side cover
- Suitable for pendant mounting
- Each piece can be produced at a max. length of 2m

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
LLT8-60LED	WW-NW-CW	24V DC	18	1.350	3,3
LLT8-90LED	WW-NW-CW	24V DC	24	1.800	3,3

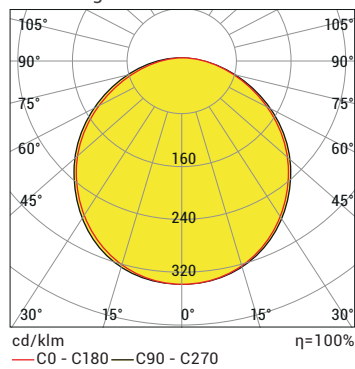
\*Power and Lumen values provided are based off of a cold white (CW) LED.  
 \*\* 1,5 m steel wire hangers are included.

## C Light Color Options

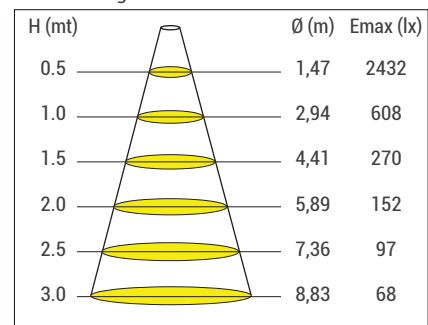
● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

## Product Diagrams

Polar Diagram



Conical Diagram



LLT8 60 LED CW 24W 24V DC IP44

## Control System Options

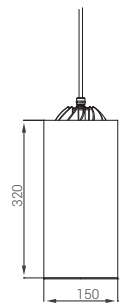
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W	●					
RGB DMX			●			
WHITE DMX			●			



Order Code

P . W . C





- Electrostatic powder coated aluminum injection housing
- UV protective polycarbonate body
- Suitable for pendant mounting

## P W Product & Power Options

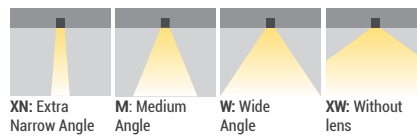
Product Name Led Quantity (qty/m)	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Beehive	WW-NW-CW	220-240V AC	12	900	4,3
Beehive	WW-NW-CW	220-240V AC	17	1.275	4,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

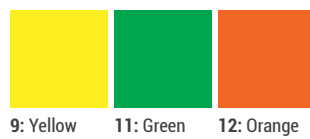
## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## O Lens Options



## U Upper Piece Options



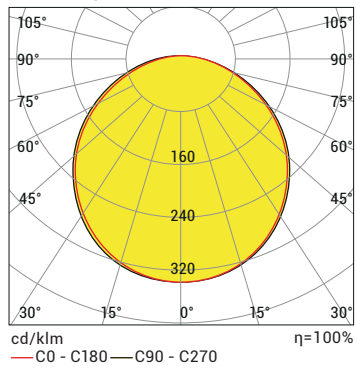
Order Code

P . W . C . O . U

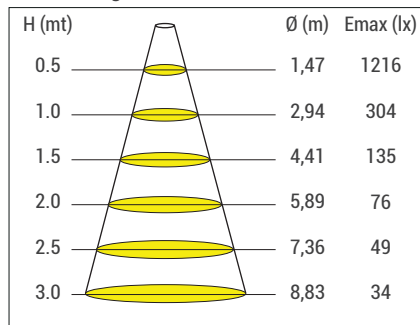


## Product Diagrams

Polar Diagram









Conical Diagram



BEEHIVE 9 CW 12W 220V AC IP20

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Lotus Mall, Russia



## Downlight Luminaires

LL

DP

**CD**

WW

CG

CS

CF

AC

CB

HB

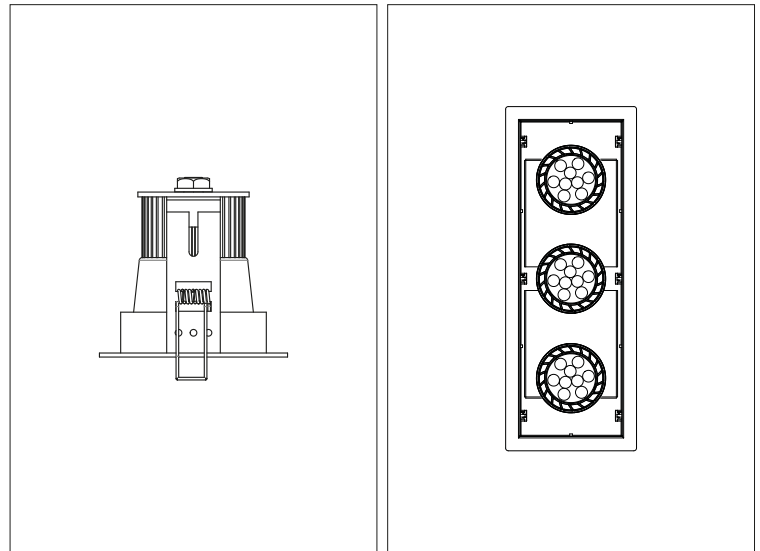
MM

RDMX

LC

FO

EL

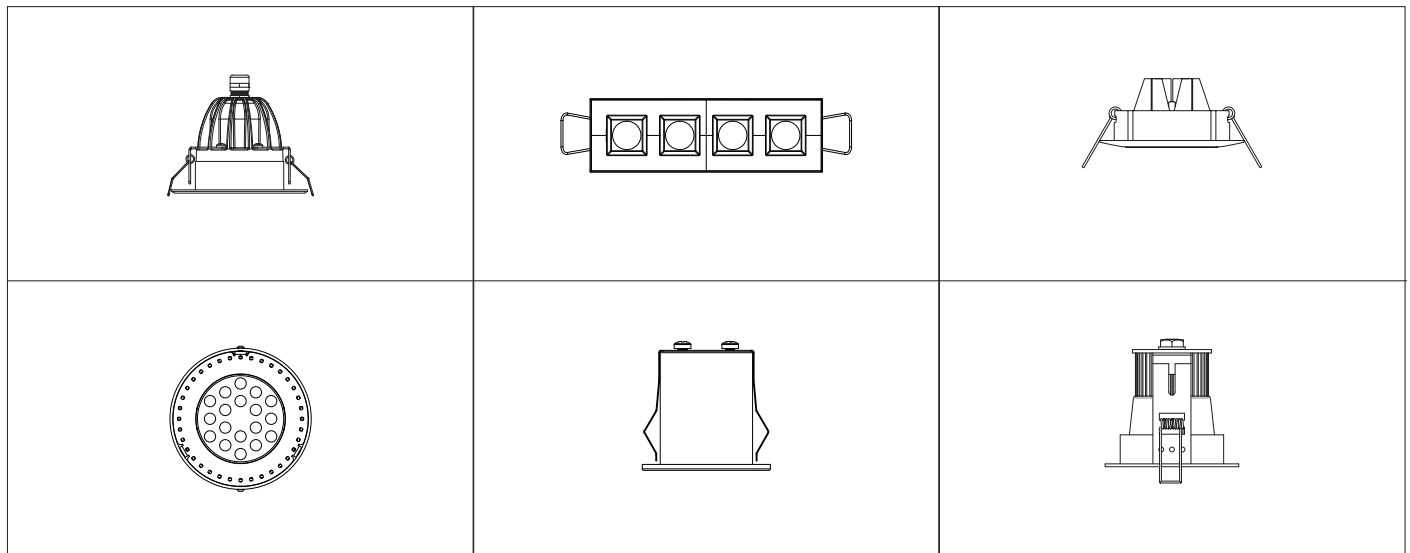


### • **CromaDown**

The CromaDown series provides a flawless aesthetic look to any ceiling. These luminaires render a high energy conservation by virtue of their low power consumption. They are particularly utilized for general lighting of offices, stores, universities, hospitals and museums. They provide compatible lighting solutions to every project with high-quality and elegant body designs, diverse sizes and light angles.

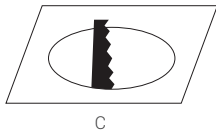
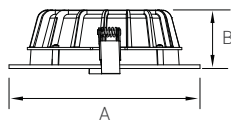


# Downlight Luminaires



## CromaDown - Downlight Luminaires





- Electrostatic painted aluminum injection body and frame
- Low-glare (UGR <19) homogeneous light
- Stainless spring system for ceiling mounting
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDEW3-TECO	WW-NW-CW	220-240V AC	7	550	Ø95x45	Ø78	0,3
CDEW4-TECO	WW-NW-CW	220-240V AC	16	1.360	Ø120x49	Ø102	0,4
CDEW6-TECO	WW-NW-CW	220-240V AC	20	1.750	Ø177x55	Ø152	0,6
CDEW8-TECO	WW-NW-CW	220-240V AC	25	2.250	Ø228x58	Ø200	0,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

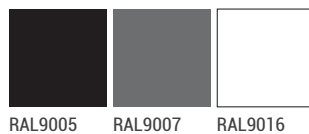
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## G Housing Color Options

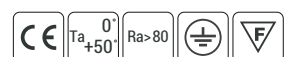


RAL9005 RAL9007 RAL9016



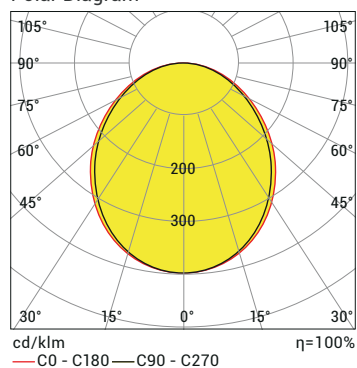
Order Code

P . W . C . S . G



## Product Diagrams

Polar Diagram



Conical Diagram

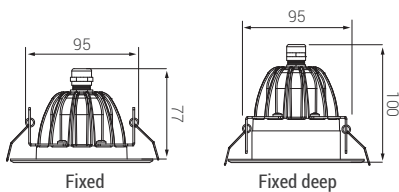
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0,5	1,25	2156
1,0	2,50	540
1,5	3,74	240
2,0	4,99	135
2,5	6,24	86
3,0	7,49	60

CDEW4-TECO NW40 16W 220VAC IP44

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection housing
- Polycarbonate luminaire glass
- Chrome front flange
- Stainless connectors
- Suitable for recessed mounting
- Anti-glare reflector (RAL9005)

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP1 03	WW-NW-CW	220-240V AC	4	350	0,9
CDP1 03	WW-NW-CW	220-240V AC	8	700	1,1
CDP1 03	WW-NW-CW	12-24V DC	4	350	0,8
CDP1 03	WW-NW-CW	12-24V DC	8	700	0,8

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## O Lens Options



N: Narrow Angle M: Medium Angle

## G Housing Color Options



RAL9005 RAL9016 RAL9007

The products are equipped with a black reflector as standard.

## U Upper Piece Options



27: Round flange 28: Square flange

## M Mounting Options

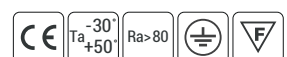


09: Fixed 10: Fixed deep



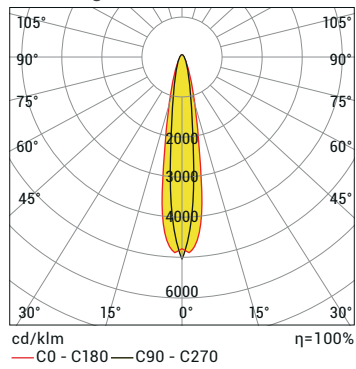
Order Code

P . W . C . S . O . G . U . M



## Product Diagrams

Polar Diagram



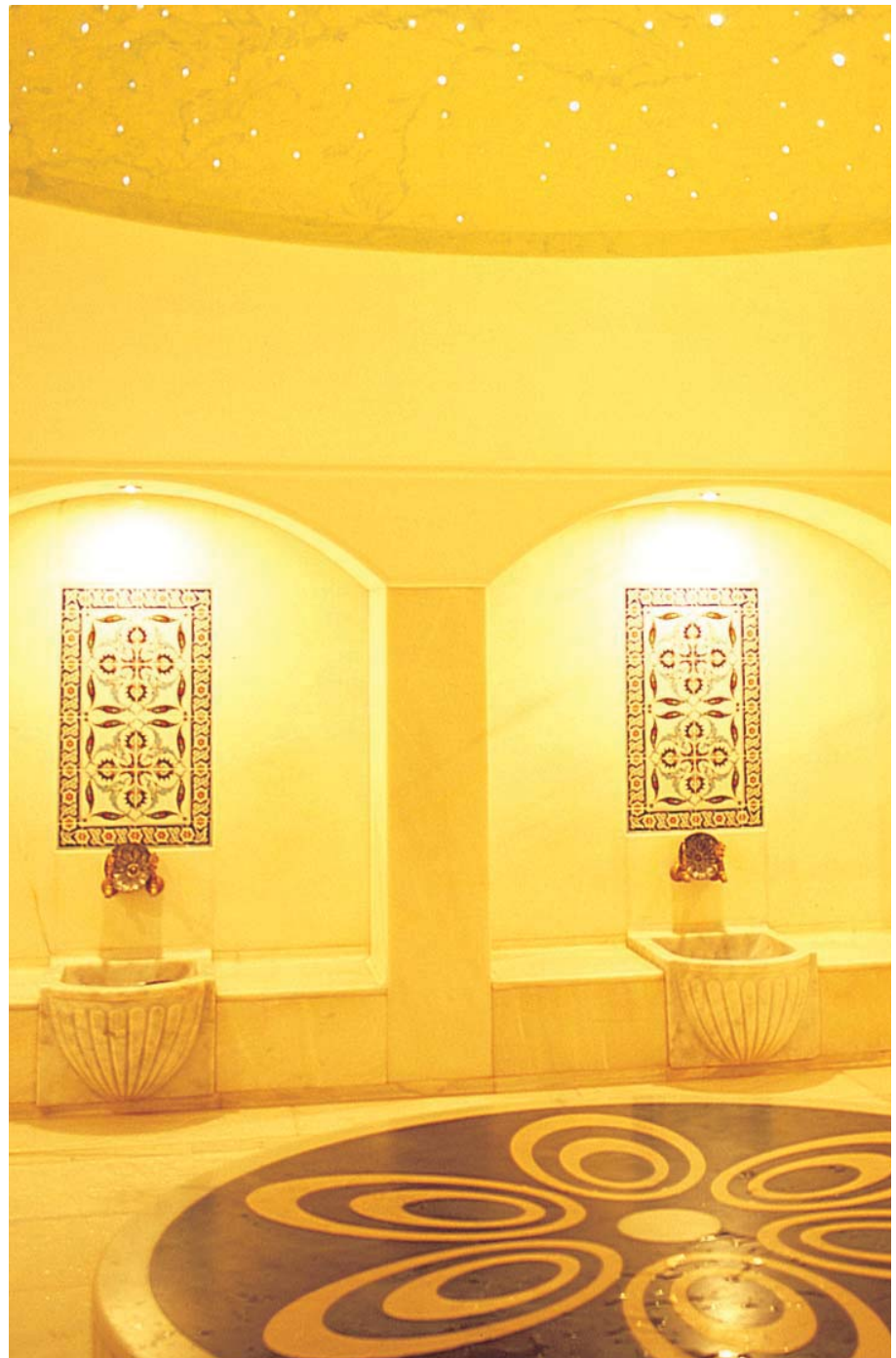
Conical Diagram

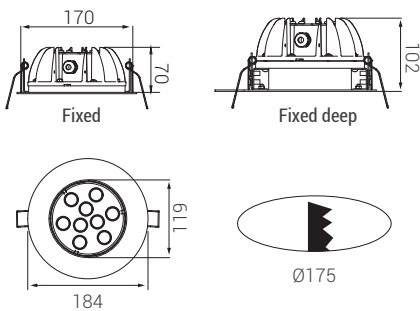
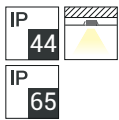
H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	0,39	30677
1.0	0,77	7669
1.5	1,16	3409
2.0	1,54	1917
2.5	1,93	1227
3.0	2,32	852

CDP1 P3 NW 25D 4W 220V AC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	•
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coated aluminum injection housing and DKP front frame
- Polycarbonate front glass
- Stainless connectors
- Suitable for recessed mounting
- Anti-glare reflector (RAL9005)

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP3 09	WW-NW-CW	220-240V AC	12	1.225	1,4
CDP3 09	WW-NW-CW	220-240V AC	17	1.685	1,4
CDP3 09	WW-NW-CW	220-240V AC	23	2.395	1,6
CDP3 09	WW-NW-CW	12-24V DC	11	1.120	1,2
CDP3 09	WW-NW-CW	12-24V DC	15	1.580	1,2
CDP3 09	WW-NW-CW	12-24V DC	22	2.290	1,2

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

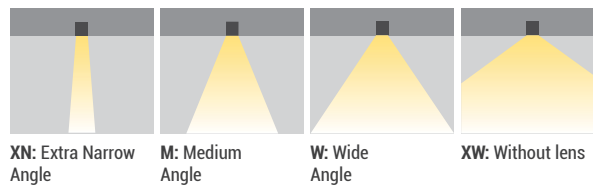
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

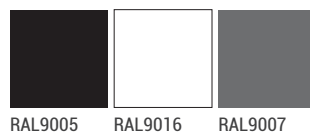
## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## O Lens Options



## G Housing Color Options



The products are equipped with a black reflector as standard.

## I IP Protection Class



\*IP65 can only Fixed optimal



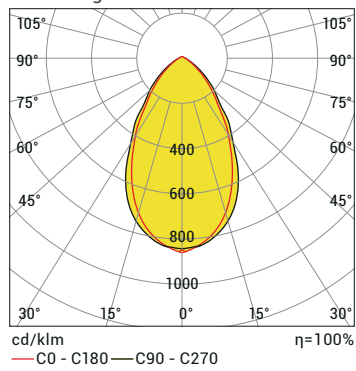
Order Code

P . W . C . S . O . G . I . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0,55	4250
1.0	1,10	1062
1.5	1,66	472
2.0	2,21	866
2.5	2,76	170
3.0	3,31	118

CDP3 CW 60D 12 W 220V AC IP40

## M Mounting Options



09: Fixed



10: Fixed Deep \*



11: Deep movable\*

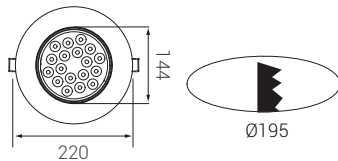
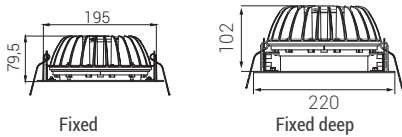
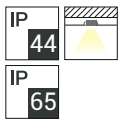


12: Deep recessed movable\*

\*IP65 is not available

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum injection housing and steel front frame
- Polycarbonate front glass
- Stainless connectors
- Suitable for recessed mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP5 18	WW-NW-CW	220-240V AC	20	2.408	1,8
CDP5 18	WW-NW-CW	220-240V AC	36	3.465	1,9
CDP5 18	WW-NW-CW	220-240V AC	45	4.335	2,0
CDP5 18	WW-NW-CW	12-24V DC	22	2.185	1,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## O Lens Options



XN: Extra Narrow angle    M: Medium angle    W: Wide angle    XW: Without lens

## G Housing Color Options



RAL9005    RAL9016    RAL9007

The products are equipped with a black reflector as standard.

## I IP Protection Class



\*IP65 can only Fixed optimal



Order Code

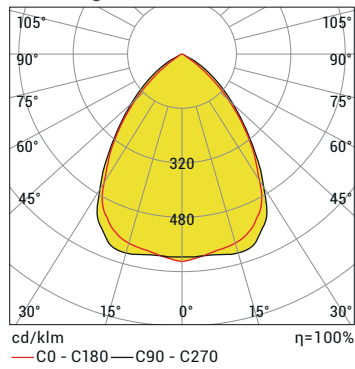
P . W . C . S . O . G . I . M





## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	Emax (lx)
0.5	0,80	10565
1.0	1,61	2641
1.5	2,41	1174
2.0	3,22	660
2.5	4,02	423
3.0	4,82	293

CDP5 CW 60D 45W 220VAC 50HZ



## M Mounting Options



09: Fixed



10: Fixed Deep\*



11: Deep movable\*

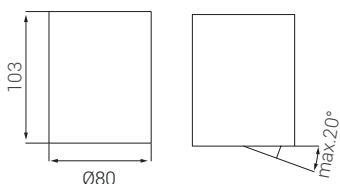


12: Deep recessed movable\*

\*IP65 is not available

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum injection housing
- Anodized aluminum cooler
- Impact resistant front glass
- High efficiency anodized reflector
- Suitable for surface mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB80	WW-NW-CW	220-240V AC	8	680	1,2

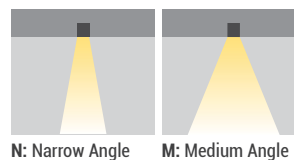
\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## O Lens Options

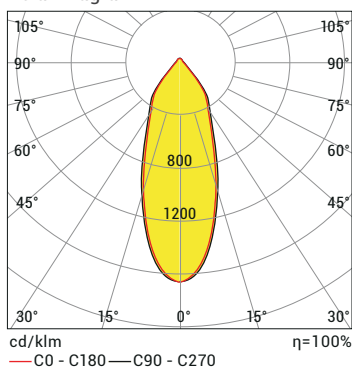


## G Housing Color Options



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	Emax (lx)
0.5	0,33	4525
1.0	0,67	1131
1.5	1,00	503
2.0	1,33	283
2.5	1,66	181
3.0	2,00	126

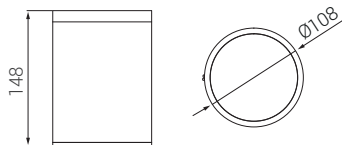
CDRB 80 CW 45D 8W 220V AC IP44



Order Code

P . W . C . O . G





- Electrostatic powder coated aluminum housing
- Polycarbonate front glass
- Suitable for surface/pendant mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB150	WW-NW-CW	220-240V AC	12	1.225	1,1

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



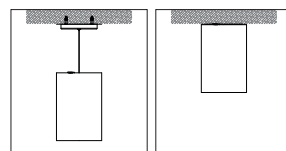
XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    XW: Without Lens Angle

## G Housing Color Options



RAL9005    RAL9007    RAL9016

## M Mounting Options

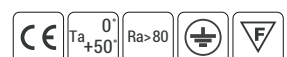


25: Pendant    26: Surface



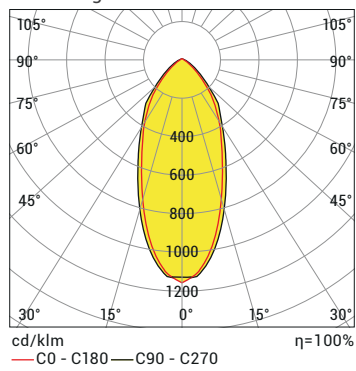
Order Code

P . W . C . S . O . G . M



## Product Diagrams

Polar Diagram



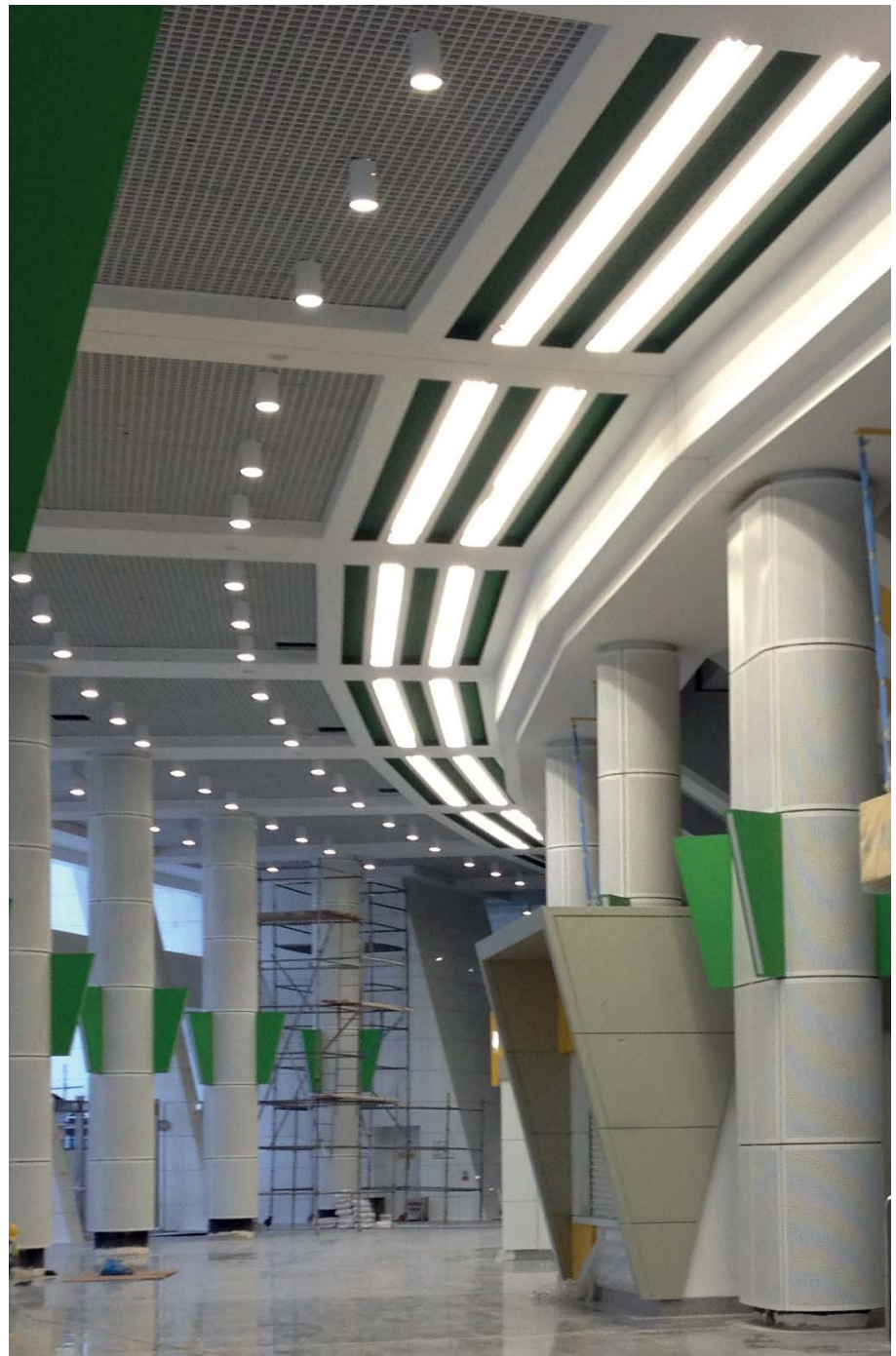
Conical Diagram

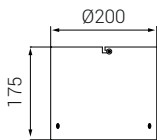
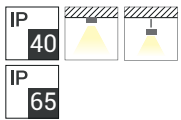
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0,39	5248
1.0	0,78	1312
1.5	1,16	583
2.0	1,55	328
2.5	1,94	210
3.0	2,33	146

CDRB 150 CW 60D 12W 220V AC IP54

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated steel housing
- Electrostatic powder coated aluminum cooler
- Polycarbonate front glass
- Suitable for surface/pendant mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB175	WW-NW-CW	220-240V AC	25	2.420	2,5
CDRB175	WW-NW-CW	220-240V AC	45	4.376	2,6

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

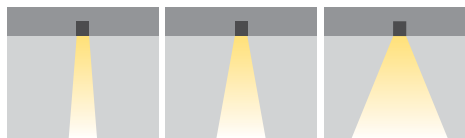
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle

## G Housing Color Options

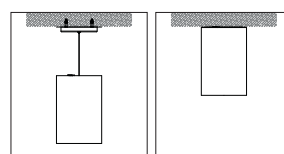


RAL9005    RAL9007    RAL9016

## I IP Protection Class



## M Mounting Options



25: Pendant    26: Surface



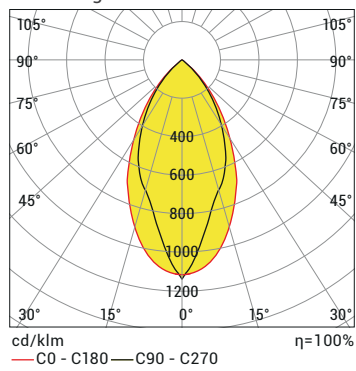
Order Code

P . W . C . S . O . G . I . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0,55	10599
1.0	1,09	2650
1.5	1,64	1178
2.0	2,19	662
2.5	2,74	424
3.0	3,28	294

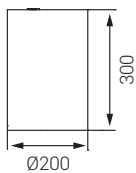
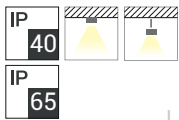
CDRB 175 CW 60D 25W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI*	0-10V DC*	TRIAC
WW-NW-CW 				•	•	•
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						

\*Not applicable for IP65





- Electrostatic powder coated steel housing
- Electrostatic powder coated aluminum cooler
- Polycarbonate front glass
- Suitable for surface/pendant mounting

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB300 18	WW-NW-CW	220-240V AC	25	2.302	3,8
CDRB300 18	WW-NW-CW	220-240V AC	50	4.262	4,1
CDRB300 54**	WW-NW-CW	220-240V AC	100	11.033	4,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.  
\*\*IP40 only

## C Light Color Options

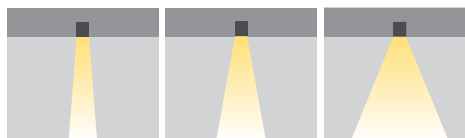
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle

## G Housing Color Options

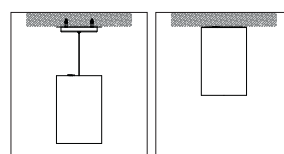


RAL9005    RAL9007    RAL9016

## I IP Protection Class



## M Mounting Options



25: Pendant    26: Surface



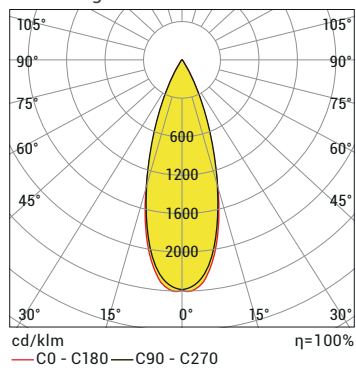
Order Code

P . W . C . S . O . G . I . M



## Product Diagrams

Polar Diagram



Conical Diagram

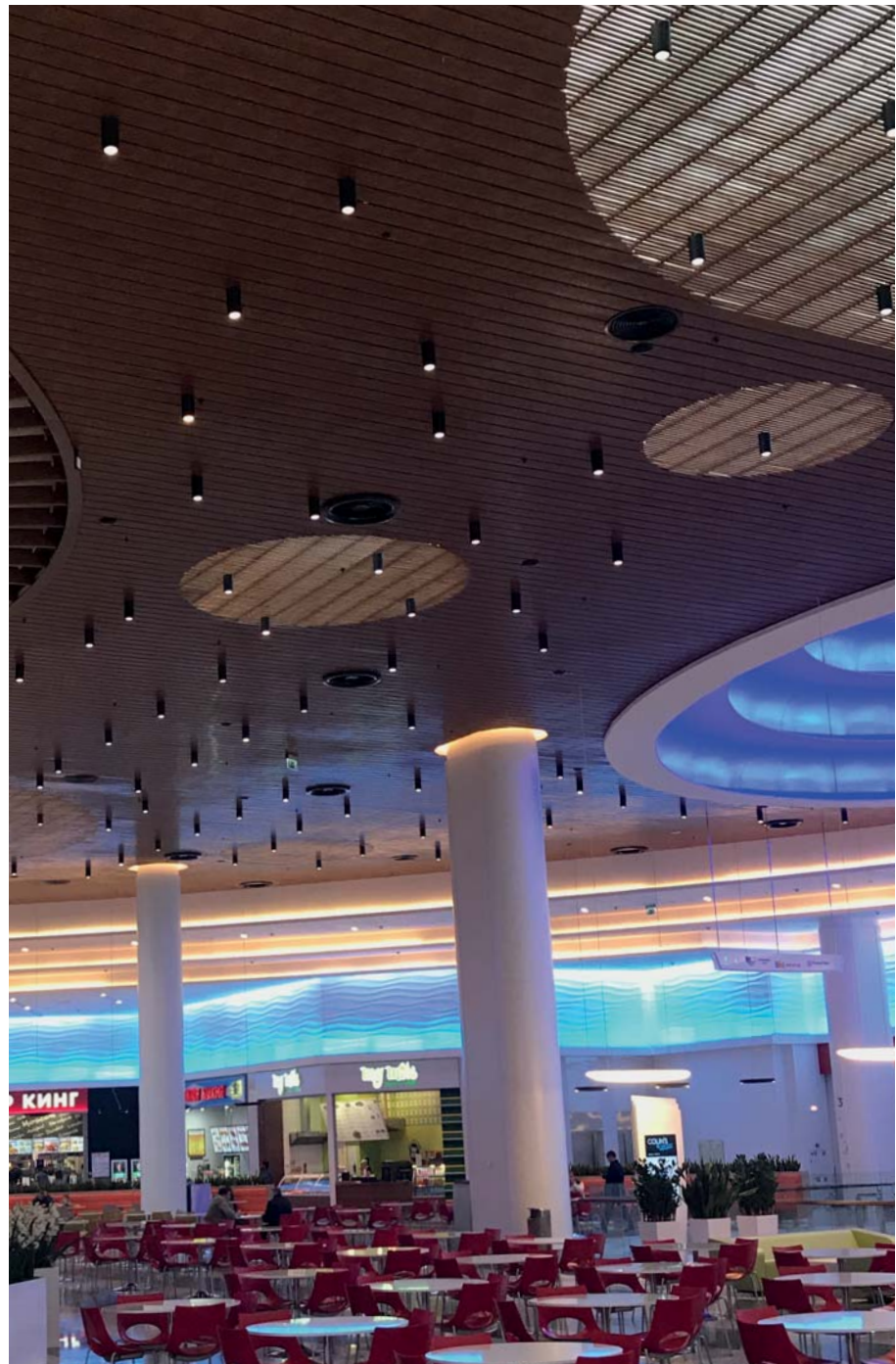
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0,31	20456
1.0	0,61	5114
1.5	0,92	2273
2.0	1,22	1278
2.5	1,53	818
3.0	1,83	568

CDRB 300 CW 25D 25W 220V AC IP40

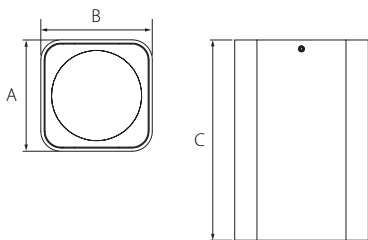
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

\*Not applicable for IP65







- Electrostatic powder coated aluminum body
- Printed tempered glass cover
- Internal drive
- Suitable for indoor and outdoor

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC) (mm)	Weight (kg)
DAMLA75	WW-NW-CW	220-240V AC	14	1410	75x75x123	0,9
DAMLA100	WW-NW-CW	220-240V AC	26	2900	100x100x155	1,4
DAMLA150	WW-NW-CW	220-240V AC	40	4630	150x150x225	2,7

\*Power and Lumen values provided are based off of a Natural white (NW) LED.

## C Light Color Options

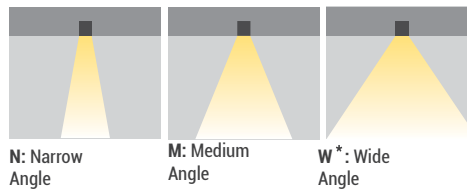
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

- 01 Standard Driver
- 06 \* DALI Driver
- 11 \* Driver + Emergency Lighting Kit 1h
- 12 \* Driver + Emergency Lighting Kit 3h

\* Suitable for DAMLA150

## O Lens Options



\* Suitable for DAMLA150

## G Housing Color Options



## U Upper Pieces Options

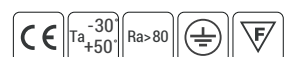


00: Standart  
01: Light Diffuser (Honeycomb)



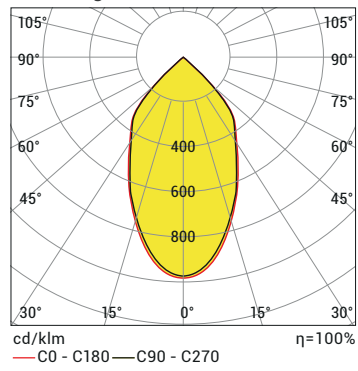
Order Code

P . W . C . S . O . G . U

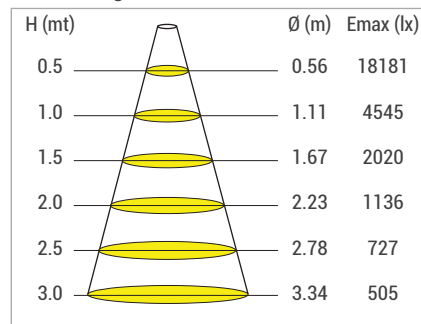


## Product Diagrams

Polar Diagram



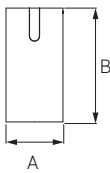
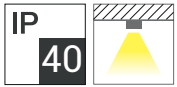
Conical Diagram



DAMLA150\_A0001 NW40 40W 220VAC

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector
- Compact connection accessories
- Architectural simple design

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
YONJA50	WW-NW	220-240V AC	10	850	Ø55x110	0,4
YONJA85	WW-NW	220-240V AC	20	1.800	Ø90x185	0,5
YONJA110	WW-NW	220-240V AC	30	2.550	Ø115x200	0,8
YONJA110	WW-NW	220-240V AC	40	3.200	Ø115x200	0,85

\*Power and Lumen values provided are based off of a "natural white (NW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K

## S Driver Options

- 01 Standard Driver
- 06 \*DALI Driver
- 11 \*Driver + Emergency Lighting Kit 1h
- 12 \*Driver + Emergency Lighting Kit 3h

\* Suitable for Yonja85 and Yonja110

## O Lens Options



N: Narrow Angle

M: Medium Angle

W\*: Wide Angle

\* Suitable for Yonja110

## G Housing Color Options



RAL9005

RAL9016

## U Upper Pieces Options



35: Black Reflector

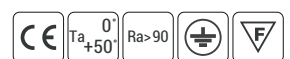
36: Light Diffuser (Honeycomb)

Products with black reflector



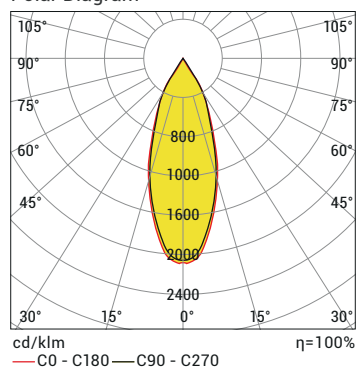
Order Code

P . W . C . S . O . G . U

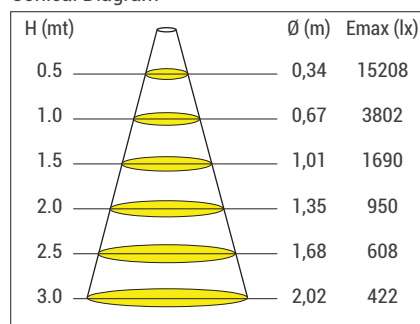


## Product Diagrams

Polar Diagram



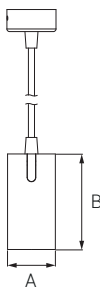
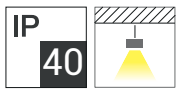
Conical Diagram



YONJA85 NW40 40D 20W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector
- Compact connection accessories
- Architectural simple design
- 1m pendant cord

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
YONJA50-S	WW-NW	220-240V AC	10	850	Ø55x110	0,4
YONJA85-S	WW-NW	220-240V AC	20	1.800	Ø90x185	0,5
YONJA110-S	WW-NW	220-240V AC	30	2.550	Ø115x200	0,8
YONJA110-S	WW-NW	220-240V AC	40	3.200	Ø115x200	0,85

\*Power and Lumen values provided are based off of a "natural white (NW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K

## S Driver Options

- 01 Standard Driver
- 06 \*DALI Driver
- 11 \*Driver + Emergency Lighting Kit 1h
- 12 \*Driver + Emergency Lighting Kit 3h

\* Suitable for Yonja85 and Yonja110

## O Lens Options



N: Narrow Angle

M: Medium Angle

W\*: Wide Angle

\* Suitable for Yonja110

## G Housing Color Options



RAL9005

RAL9016

## U Upper Pieces Options



35: Black Reflector

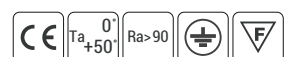
36: Light Diffuser (Honeycomb)

Products with black reflector



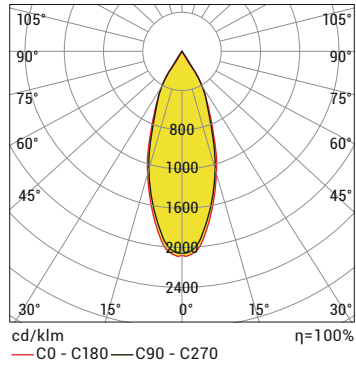
Order Code

P . W . C . S . O . G . U

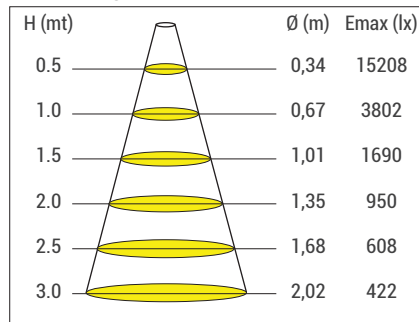


## Product Diagrams

Polar Diagram



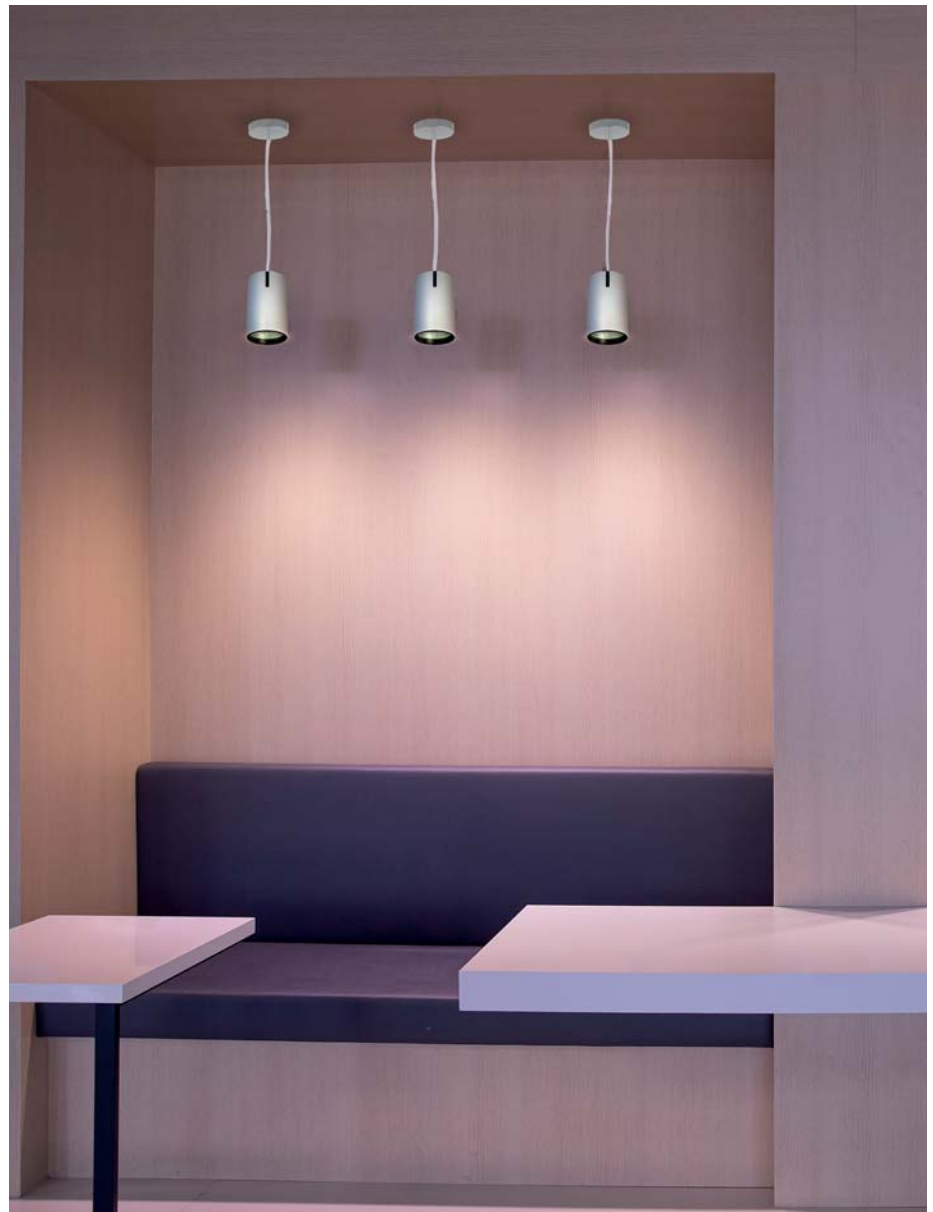
Conical Diagram



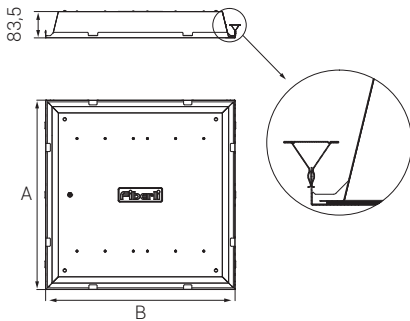
YONJA85 NW40 40D 20W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



CW Energy, Antalya



- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLCLIPIN-3030	WW-NW-CW	220-240V AC	15	1.353	300x300	1,1
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	26	3.507	600x600	3,2
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	3,2
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	38	4.843	600x600	3,2

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h



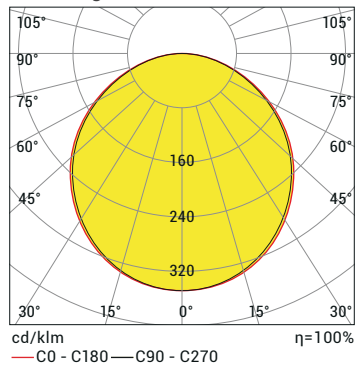
Order Code

P . W . C . S



## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1,50	4387
1.0	3,00	1097
1.5	4,50	487
2.0	6,00	274
2.5	4,50	175
3.0	9,00	122

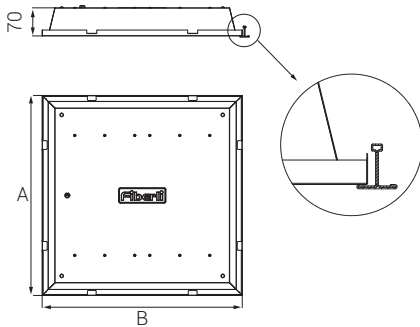
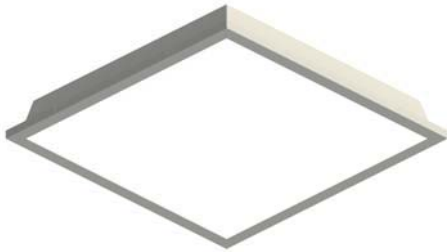
PANEL CLIP IN 60x60 CW 120D 30W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	•
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						







- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLLAYON-3030	WW-NW-CW	220-240V AC	15	1.353	300x300	1,1
PNLLAYON-3060	WW-NW-CW	220-240V AC	22	2.300	300x600	2,0
PNLLAYON-6060	WW-NW-CW	220-240V AC	26	3.507	600x600	3,2
PNLLAYON-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	3,2
PNLLAYON-6060	WW-NW-CW	220-240V AC	38	4.843	600x600	3,2
PNLLAYON-30120	WW-NW-CW	220-240V AC	38	4.446	300x1200	3,3
PNLLAYON-60120	WW-NW-CW	220-240V AC	84	9.256	600x1200	6,0

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h



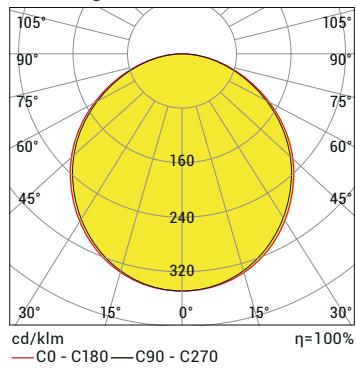
Order Code

P . W . C . S



## Product Diagrams

Polar Diagram









Conical Diagram

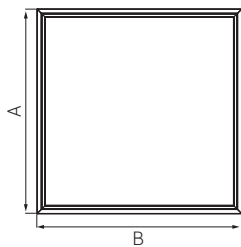
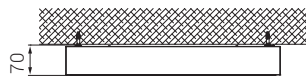
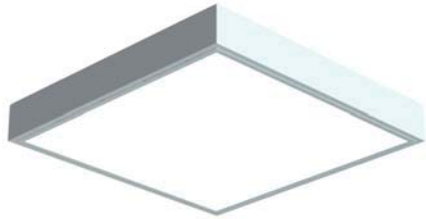
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	1,49	6204
1.0	2,98	1551
1.5	4,46	689
2.0	5,95	388
2.5	7,44	248
3.0	8,93	172

PANEL LAY ON 60x60 CW 120D 43W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	•
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for surface mount

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLSURFACE-3030	WW-NW-CW	220-240V AC	15	1.014	300x300	1,3
PNLSURFACE-3060	WW-NW-CW	220-240V AC	22	1.978	300x600	2,4
PNLSURFACE-6060	WW-NW-CW	220-240V AC	30	3.160	600x600	4,0
PNLSURFACE-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	4,0
PNLSURFACE-6060	WW-NW-CW	220-240V AC	42	4.236	600x600	4,0
PNLSURFACE-30120	WW-NW-CW	220-240V AC	42	4.450	300x1200	4,2
PNLSURFACE-60120	WW-NW-CW	220-240V AC	86	8.780	600x1200	7,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h



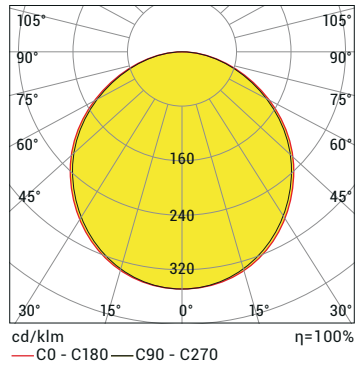
Order Code

P . W . C . S



## Product Diagrams

Polar Diagram



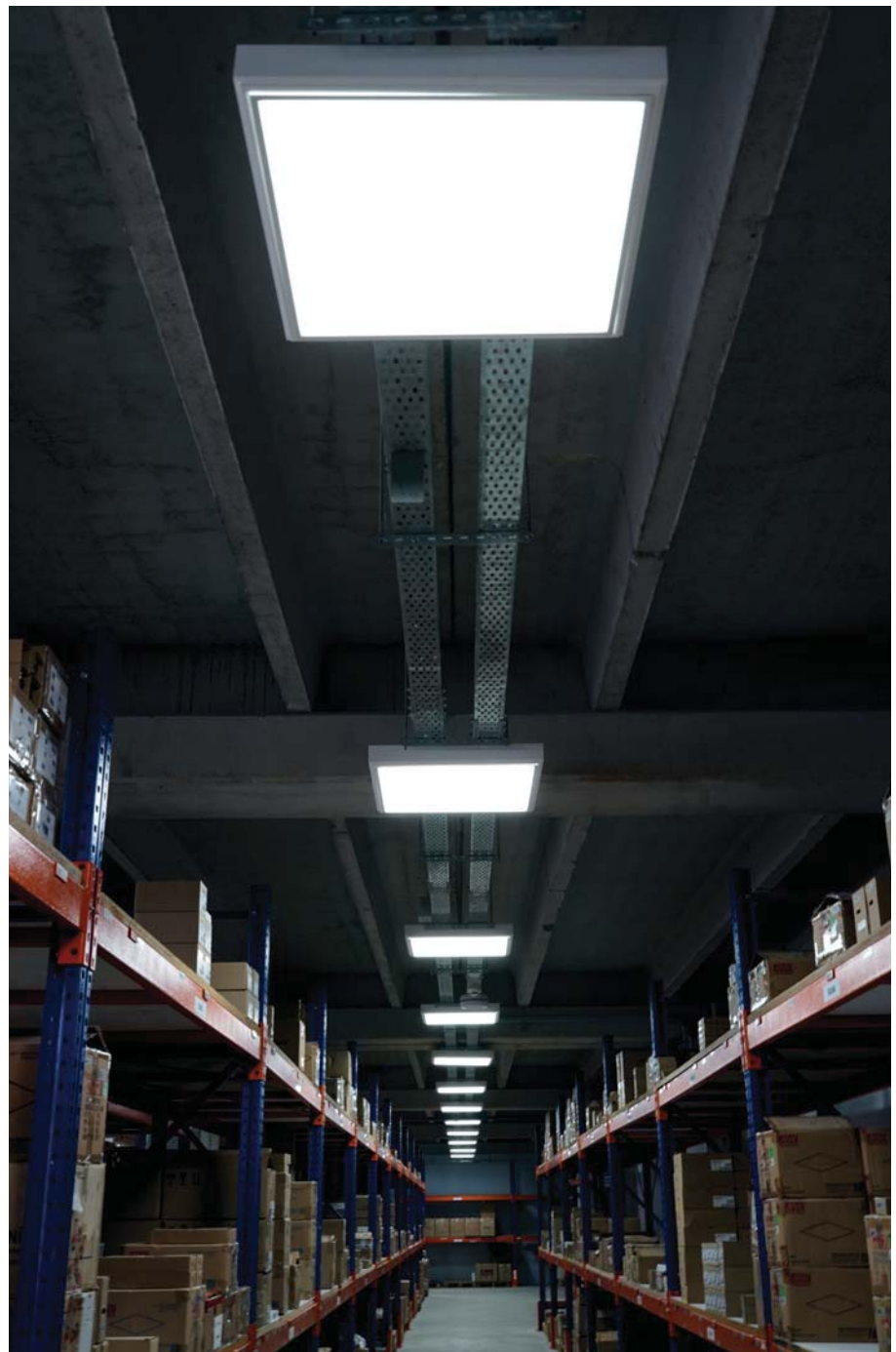
Conical Diagram

H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	1,49	12409
1.0	2,98	3102
1.5	4,46	1379
2.0	5,95	776
2.5	7,44	496
3.0	8,93	345

PANEL SURFACE 60x120 CW 120D 86W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	•
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



LL

DP

CD

**WW**

CG

CS

CF

AC

CB

HB

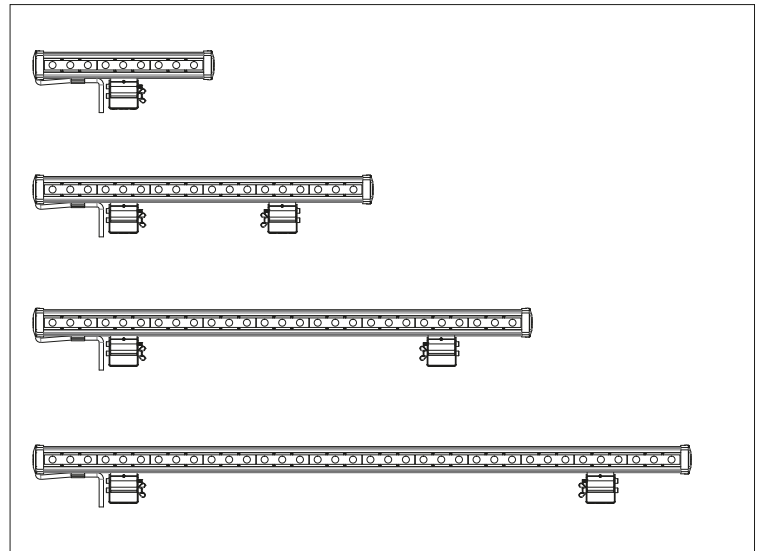
MM

RDMX

LC

FO

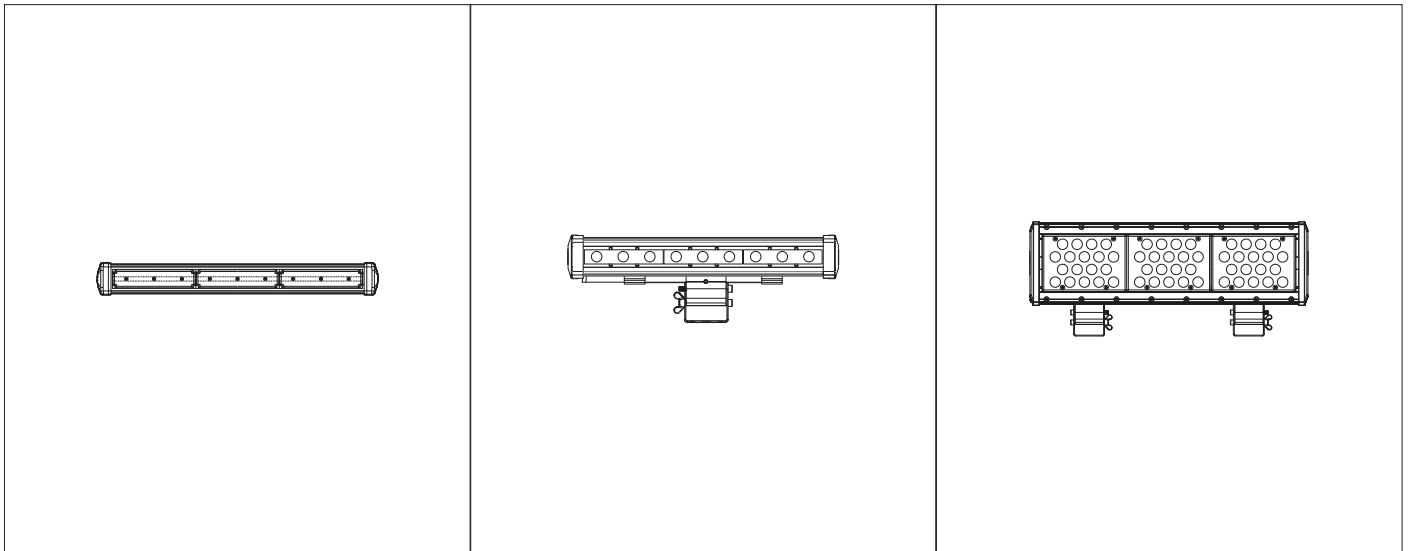
EL



## • **Wall Washer**

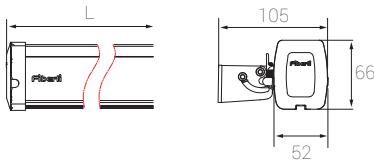
The wallwasher series offers ideal lighting solutions for indoor and outdoor venues. These luminaires are utilised for the purpose of illuminating structures spread on high on capacious areas. They particularly render homogeneous and linear lighting on the surfaces of historical and modern structures such as stadiums, monuments, bridges. The luminaires provide high quality solutions and efficiency without being affected by adverse weather conditions due to their powerful technical structures. Luminaires can both be produced as mono colour or RGB, as per order. Also, they provide architects and lighting designers the opportunity to bring their creative ideas to life with a wide range of color options and capability to change colours.

# LED Projectors



## WallWasher - LED Projectors





- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent

## P W Product & Power Options

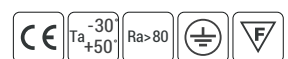
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WL033	CW,NW,WW	220-240V AC	4	408	100	0,4
WL066	CW,NW,WW	220-240V AC	8	794	200	0,7
WL109	CW,NW,WW	220-240V AC	12	1.217	300	1,0
WL112	CW,NW,WW	220-240V AC	16	1.550	300	1,0
WL218	CW,NW,WW	220-240V AC	22	2.443	600	1,5
WL224	CW,NW,WW	220-240V AC	30	2.908	600	1,5
WL327	CW,NW,WW	220-240V AC	32	3.682	900	2,4
WL336	CW,NW,WW	220-240V AC	44	4.496	900	2,4
WL436	CW,NW,WW	220-240V AC	42	4.862	1.200	2,9
WL448	CW,NW,WW	220-240V AC	58	5.524	1.200	2,9
WL109 DMX	RGB	220-240V AC	16	-	300	1,0
WL112 DMX	RGB	220-240V AC	30	-	300	1,0
WL218 DMX	RGB	220-240V AC	25	-	600	1,5
WL224 DMX	RGB	220-240V AC	36	-	600	1,5
WL327 DMX	RGB	220-240V AC	36	-	900	2,4
WL336 DMX	RGB	220-240V AC	48	-	900	2,4
WL436 DMX	RGB	220-240V AC	48	-	1.200	2,9
WL448 DMX	RGB	220-240V AC	63	-	1.200	2,9
WL112 PDMX	RGB/W/A	220-240V AC	18	-	300	1,0
WL224 PDMX	RGB/W/A	220-240V AC	30	-	600	1,5
WL336 PDMX	RGB/W/A	220-240V AC	48	-	900	2,4
WL448 PDMX	RGB/W/A	220-240V AC	63	-	1.200	2,9
WL033	RGB	7,5V DC	8	-	100	0,3
WL109	RGB	12V DC	13	-	300	0,9
WL218	RGB	24V DC	26	-	600	1,4
WL327	RGB	12V DC	38	-	900	2,3
WL436	RGB	24V DC	51	-	1.200	2,8
WL112	RGB	15-24V DC	13,5	-	300	0,3
WL224	RGB	15-24V DC	31	-	600	1,4
WL336	RGB	15-24V DC	47	-	900	2,3
WL448	RGB	15-24V DC	62	-	1200	2,8

\*Power and Lumen values provided are based off of a "cold white (CW) LED".



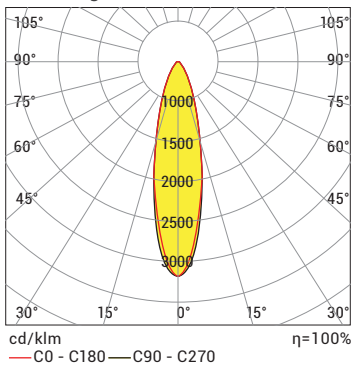
Order Code

P . W . C . S . O . J . K . M



## Product Diagrams

Polar Diagram

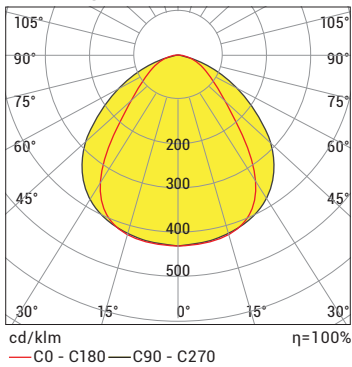


Conical Diagram

H (mt)	$\emptyset$ (m)	Emax (lx)
0.5	0,22	12935
1.0	0,44	3234
1.5	0,66	1437
2.0	0,88	808
2.5	1,10	517
3.0	1,32	359

WL109 CW 10D 12 W 220V AC IP66

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	Emax (lx)
0.5	0,84	1674
1.0	1,68	419
1.5	2,53	186
2.0	3,37	105
2.5	4,21	67
3.0	5,05	47

WL109 CW 120D 12 W 220V AC IP66

## C Light Color Options

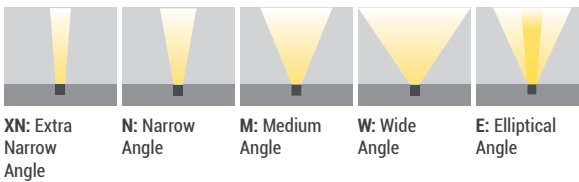
● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## J Junction Options



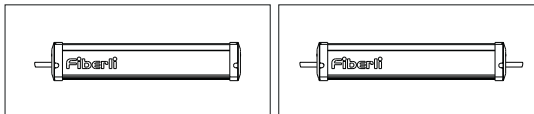
01: Cable

02: IP Socket





## K Cable Direction Options



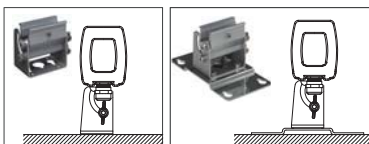
01: Single entry

03: Dual entry and exit \*

\*The max. junction qty may vary for the products with both entry and exit

## M Mounting Options

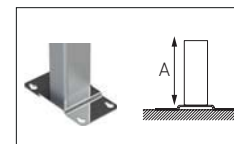
### Stand connector



20: Standard Stand

21: Standard stand/  
Mounting kit

### Optional Accessories



34: Extension piece A=5cm

35: Extension piece A=10cm

36: Extension piece A=20cm

Extension pieces at any desired length are optional

### Connecting fittings



## Additional Pieces Options



Dual assembly









Ternary assembly



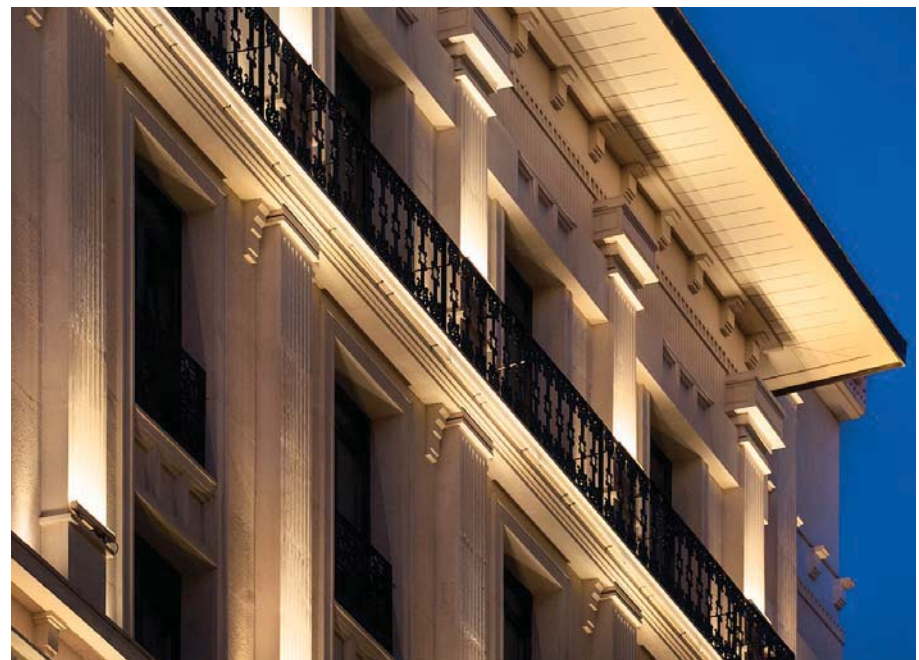
Quaternary assembly



## Control System Options

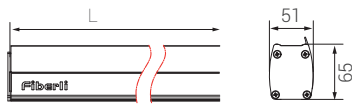
Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW 	•		•	•	•	
R,G,B,A 	•		•	•	•	
RGB 		•				
RGBA/W*** 		•				
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WL033	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
WL066	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
WL109	12	PWM	2x	4x	-
	12-24	-	3x	5x	-
WL112	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL218	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
WL224	12-24	INV-PWM	3x	5x	-
	15-24	ON/OFF	2x	-	-
WL224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL327	12	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
WL336	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL436	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
WL448	12-24	INV-PWM	3x	5x	-
	15-24	ON/OFF	2x	-	-



Merkez Efendi Complex, İstanbul

La Sagrada Hotel, İstanbul



- Anodized aluminum extruded profile
- Stainless steel fixture stand
- Tempered luminaire glass
- 316 L chrome side covers
- IP68 air vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLT112	WW-NW-CW	220-240V AC	20	2.424	330	1,2
WLT224	WW-NW-CW	220-240V AC	35	4.335	625	2,0
WLT336	WW-NW-CW	220-240V AC	50	6.322	920	2,7
WLT448	WW-NW-CW	220-240V AC	65	8.023	1215	3,4
WLT112 DMX	RGB	220-240V AC	30	-	330	1,2
WLT224 DMX	RGB	220-240V AC	36	-	625	2,0
WLT336 DMX	RGB	220-240V AC	48	-	920	2,7
WLT448 DMX	RGB	220-240V AC	63	-	1215	3,4
WLT112 PDMX	RGB/W/A	220-240V AC	18	-	330	1,2
WLT224 PDMX	RGB/W/A	220-240V AC	30	-	625	2,0
WLT336 PDMX	RGB/W/A	220-240V AC	48	-	920	2,7
WLT448 PDMX	RGB/W/A	220-240V AC	63	-	1215	3,4
WLT112	RGB	15-24V DC	13,5	-	330	1,0
WLT224	RGB	15-24V DC	31	-	625	1,8
WLT336	RGB	15-24V DC	47	-	920	2,5
WLT448	RGB	15-24V DC	62	-	1215	3,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

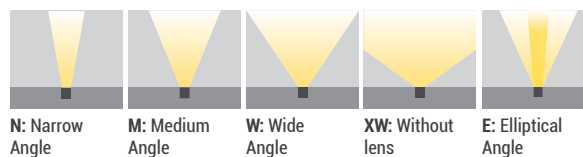
● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



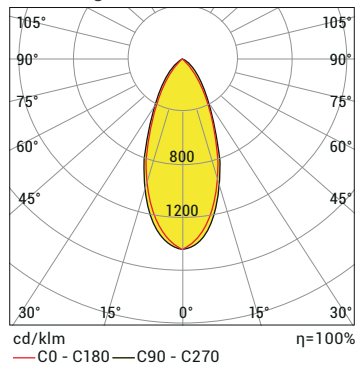
Order Code

P . W . C . S . O . J . K . U . M



## Product Diagrams

Polar Diagram

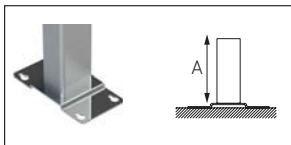


Conical Diagram

H (mt)	∅ (m)	E <sub>max</sub> (lx)
0.5	0,22	33782
1.0	0,44	8446
1.5	0,65	3754
2.0	0,87	2111
2.5	1,09	1351
3.0	1,31	938

WLT224 CW65 60D 35W 220VAC IP66

## Optional Accessories



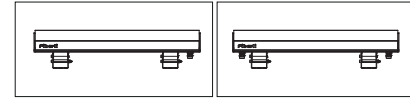
- 34: Extension piece A=5cm
  - 35: Extension piece A=10cm
  - 36: Extension piece A=20cm
- Extension pieces at any desired length are optional*

## J Junction Options



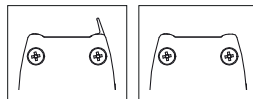
01: Cable 02: IP Socket

## K Cable Direction Options



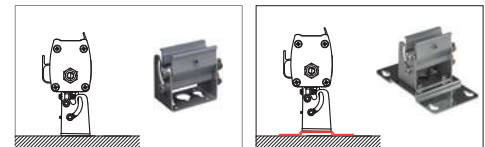
01: Single entry 03: Dual entry and exit

## U Upper Cover Options



With Glare Shield Without Glare Shield

## M Mounting Options

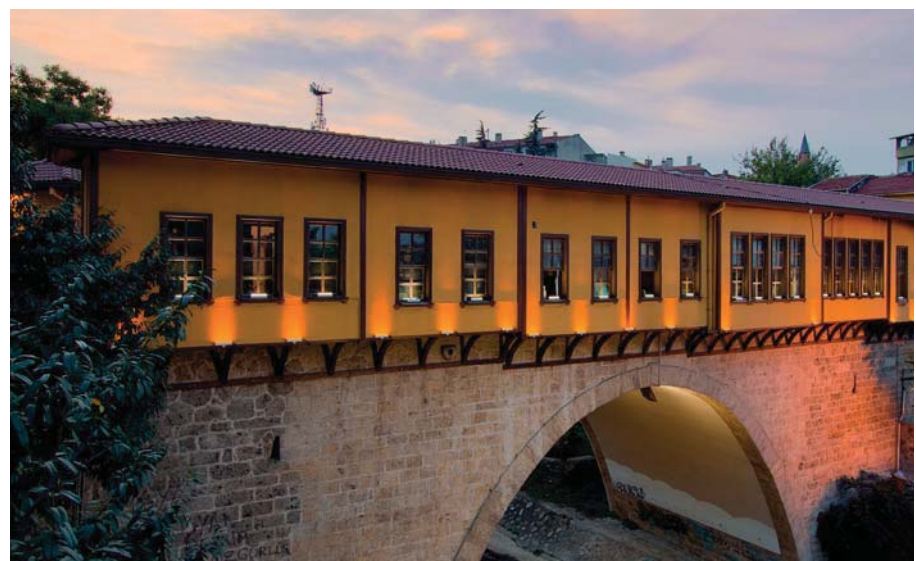


20: Standard Stand 21: Standard stand/ Mounting kit

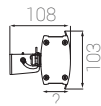
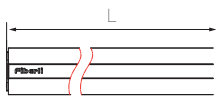
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB *	•	•				
RGBA/W ***		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLT112	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT336	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT448	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-



Irgandi, Bursa



- Anodized aluminum extrusion profile
- Body design with two-way light output
- Tempered armature glass
- Chrome luminare stand with adjustable angle
- High-strength metal gland outlet
- High efficiency lens
- 316 L chrome side covers

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLTC006	WW-NW-CW	220-240V AC	8	880	110	0,6
WLTC012	WW-NW-CW	220-240V AC	15	1.650	183	0,9
WLTC124	WW-NW-CW	220-240V AC	30	3.300	330	1,6
WLTC248	WW-NW-CW	220-240V AC	55	6.050	625	2,7
WLTC372	WW-NW-CW	220-240V AC	75	8.250	920	3,8
WLTC496	WW-NW-CW	220-240V AC	100	11.000	1215	4,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

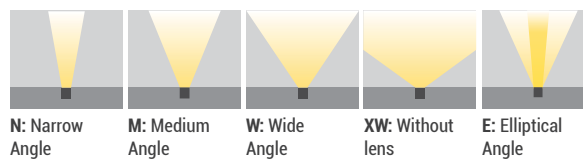
● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

\*Different colors are optional

## S Driver Options

- STD Standard Driver
- SDA DALI Driver
- DMX

## O Lens Options



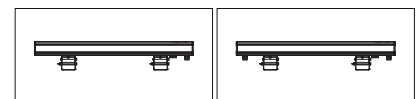
N: Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without lens    E: Elliptical Angle

## J Junction Options



01: Cable    02: IP Socket

## K Cable Direction Options



01: Single entry    03: Dual entry and exit



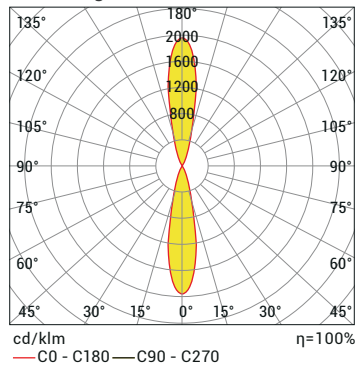
Order Code

P . W . C . S . O . J . K . U . M

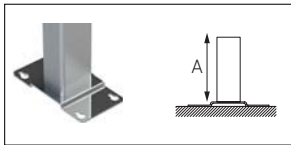


## Product Diagrams

Polar Diagram



## Optional Accessories



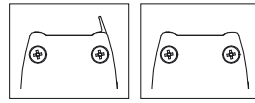
34: Extension piece A=5cm

35: Extension piece A=10cm

36: Extension piece A=20cm

Extension pieces at any desired length are optional

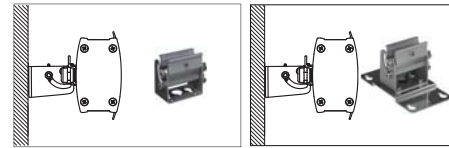
## U Upper Cover Options



With Glare Shield

Without Glare Shield

## M Mounting Options



20: Standard Stand

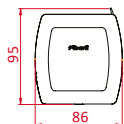
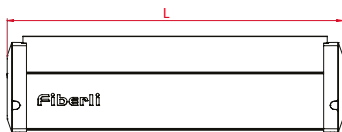
21: Standard stand/  
Mounting kit

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB	•	•				
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLTC124	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC248	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC372	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC496	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-





- Professional LED light source WallWasher lighting fixture
- WallWasher family consisting of 4 different sizes
- -20 to +40 °C Operating temperature
- Anodized aluminum extrusion body

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)
WLP-1	WW-NW-CW	220-240V AC	28	3.332	330 mm
WLP-2	WW-NW-CW	220-240V AC	56	6.664	630 mm
WLP-3	WW-NW-CW	220-240V AC	84	9.996	920 mm
WLP-4	WW-NW-CW	220-240V AC	112	13.328	1.220 mm
WLP-1-DMX	RGBW	48V DC	28	-	330 mm
WLP-2-DMX	RGBW	48V DC	56	-	630 mm
WLP-3-DMX	RGBW	48V DC	84	-	920 mm
WLP-4-DMX	RGBW	48V DC	112	-	1.220 mm

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K	
● NW: Natural White	4000K	
● CW: Cold White	6500K	

\*Different colors are optional

## S Driver Options

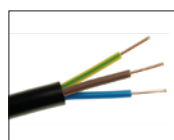
- 01 Standart Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without Angle

## J Junction Options

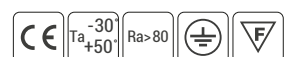


01: Cable



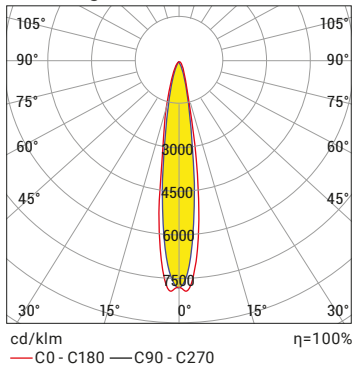
Order Code

P . W . C . S . O . J . K . U . M

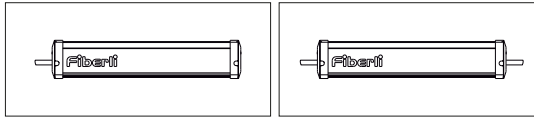


## Product Diagrams

Polar Diagram - 10°



## K Cable Direction Options



01: Single entry

03: Dual entry and exit\*

\*The max. junction qty may vary for the products with both entry and exit.

## U Upper Cover Options

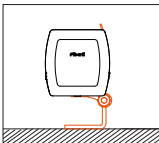


With Glare Shield

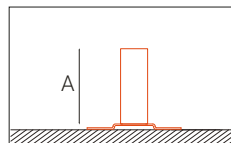
Without Glare Shield

## M Mounting Options

Stand connector    Optional Accessories





20: Standart Stand



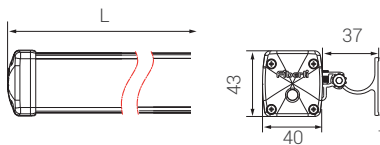
34: Extension piece A=5cm  
35: Extension piece A=10cm  
36: Extension piece A=20cm

Extension pieces at any desired length are optional

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	1-10V DC	TRIAC
WW-NW-CW 				•	•	
RGBW 			•			





- Anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- High efficiency group lens

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLM109-DOB	WW-NW-CW	220-240V AC DOB	8	542	300	0,6
WLM218-DOB	WW-NW-CW	220-240V AC DOB	16	1.055	600	0,9
WLM327-DOB	WW-NW-CW	220-240V AC DOB	24	1.572	900	1,4
WLM436-DOB	WW-NW-CW	220-240V AC DOB	36	2.037	1200	1,7
WLM109	RGB,R,G,B,A	24V DC	8	-	300	0,6
WLM218	RGB,R,G,B,A	24V DC	16	-	600	0,9
WLM327	RGB,R,G,B,A	24V DC	24	-	900	1,4
WLM436	RGB,R,G,B,A	24V DC	36	-	1200	1,7
WLMS50-DMX	RGB	24V DC	9	-	500	0,8
WLMS100-DMX	RGB	24V DC	17	-	1000	1,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

Color alternatives are not available with DOB option.

## O Lens Options



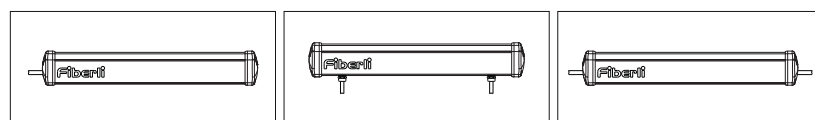
**XN:** Extra Narrow Elliptical Angle  
**N:** Narrow Elliptical Angle  
**M:** Medium Elliptical Angle  
**W:** Wide Angle

## J Junction Options

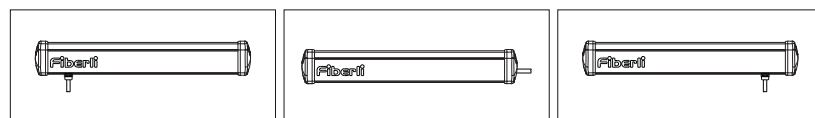


**01:** Cable  
**02:** IP Socket

## K Cable Direction Options\*



**01:** Single entry  
**02:** Dual bottom exit and entry  
**03:** Dual entry and exit



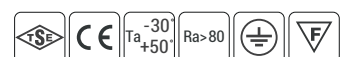
**04:** Single bottom end entry (left)  
**05:** Single end exit and entry (right)  
**06:** Single bottom entry (right)

\* The max. junction qty may vary for the products with both entry and exit



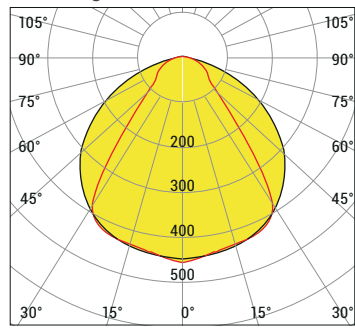
Order Code

P . W . C . O . J . K



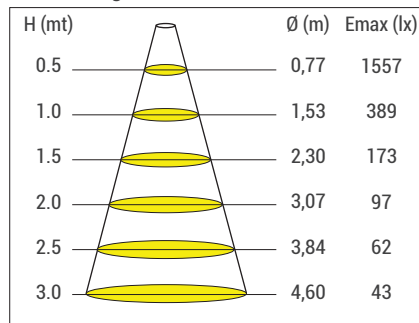
## Product Diagrams

Polar Diagram



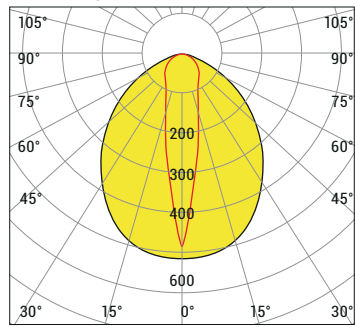
cd/klm  
— C0 - C180 — C90 - C270  
 $\eta=100\%$

Conical Diagram



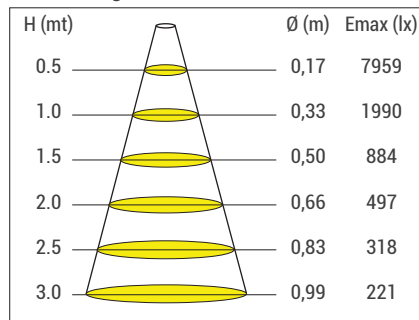
WLM 1 MP12 CW 120D 8W 220V AC IP66

Polar Diagram



cd/klm  
— C0 - C180 — C90 - C270  
 $\eta=100\%$

Conical Diagram



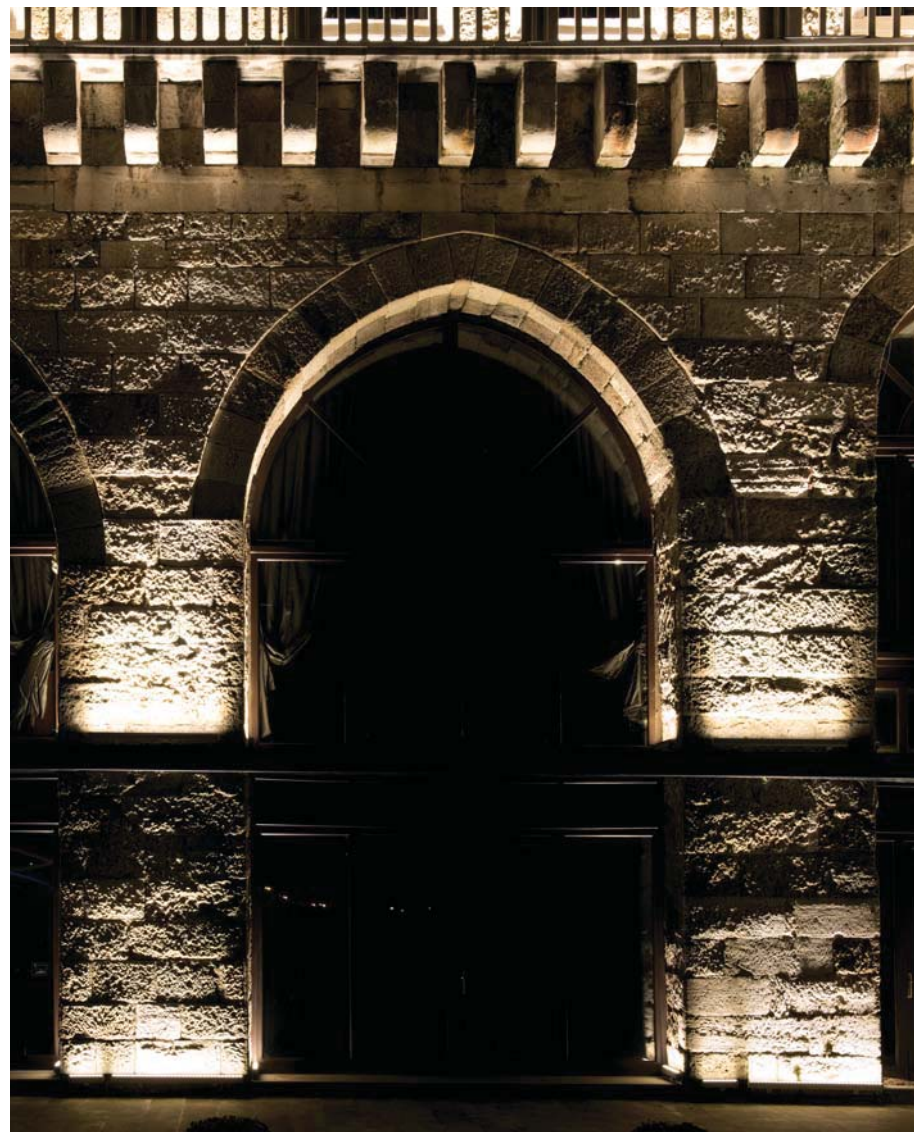
WLM 4 MP48 CW 10D 36W 220V AC IP66

## Control System Options

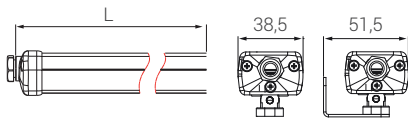
Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX						

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLM 109	24	PWM	2x	4x	-
WLM 218	24	PWM	2x	4x	-
WLM 327	24	PWM	2x	4x	-
WLM 436	24	PWM	2x	4x	-



Sepetçiler Pavilion, İstanbul



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with UV protection
- High efficiency group lens

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLMS1	WW-NW-CW	24V DC	8	820	300	0,30
WLMS2	WW-NW-CW	24V DC	16	1.640	600	0,50
WLMS3	WW-NW-CW	24V DC	24	2.460	900	0,80
WLMS4	WW-NW-CW	24V DC	36	3.280	1200	1,10
WLMS50-DMX	RGB	24V DC	9	-	500	0,40
WLMS100-DMX	RGB	24V DC	17	-	1000	0,80

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

Color alternatives are not available with DOB option.

## O Lens Options



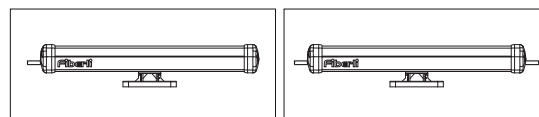
**XN:** Extra Narrow Elliptical Angle  
**N:** Narrow Elliptical Angle  
**M:** Medium Elliptical Angle  
**W:** Wide Angle

## J Junction Options



**01:** Cable  
**02:** IP Socket

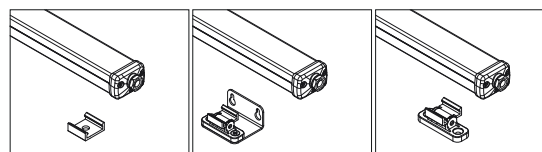
## K Cable Direction Options\*



**01:** Single entry  
**03:** Dual entry and exit

\* The max. junction qty may vary for the products with both entry and exit

## M Mounting Options



**25:** Surface Mounting  
**27:** Wall Mounting  
**28:** Floor Installation



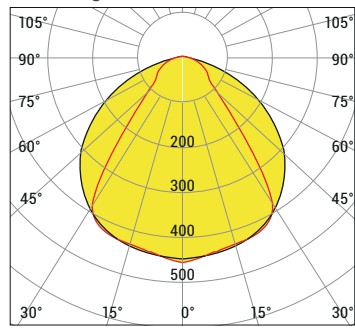
Order Code

P . W . C . O . J . K . M



## Product Diagrams

Polar Diagram

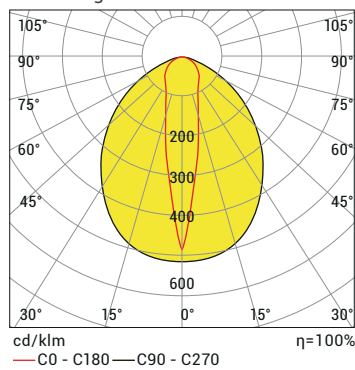


Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0,77	1557
1.0	1,53	389
1.5	2,30	173
2.0	3,07	97
2.5	3,84	62
3.0	4,60	43

WLMS 1 MP12 CW 120D 8W 220V AC IP66

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0,17	7959
1.0	0,33	1990
1.5	0,50	884
2.0	0,66	497
2.5	0,83	318
3.0	0,99	221

WLMS 4 MP48 CW 10D 36W 220V AC IP66

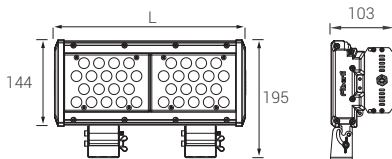
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX						

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
WLMS 109	24	PWM	2x	4x	-
WLMS 218	24	PWM	2x	4x	-
WLMS 327	24	PWM	2x	4x	-
WLMS 436	24	PWM	2x	4x	-





- Anodized aluminum extruded profile
- Electrostatic powder coated, aluminum injection end cap
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- High efficiency group lens

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS118	WW-NW-CW	220-240V AC	22	2.399	170	1,8
WS236	WW-NW-CW	220-240V AC	42	4.894	320	2,9
WS354	WW-NW-CW	220-240V AC	62	8.155	480	4,3
WS336	WW-NW-CW	220-240V AC	90	8.642	480	4,3
WS472	WW-NW-CW	220-240V AC	85	11.145	610	5,3
WS118	RGB	24V DC	26	-	170	1,1
WS236	RGB	24V DC	50	-	320	2,0
WS354	RGB	24V DC	75	-	480	3,2
WS472	RGB	24V DC	95	-	610	4,5
WS118-DMX	RGB	220-240V AC	25	-	170	1,8
WS236-DMX	RGB	220-240V AC	48	-	320	2,9
WS354-DMX	RGB	220-240V AC	70	-	480	4,3
WS336-MX	RGB	220-240V AC	85	--	480	4,3
WS472-DMX	RGB	220-240V AC	95	-	610	5,3
WS232-DMX	RGBW/A	220-240V AC	60	-	320	2,9
WS348-DMX	RGBW/A	220-240V AC	95	-	480	4,3
WS464-DMX	RGBW/A	220-240V AC	120	-	610	5,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

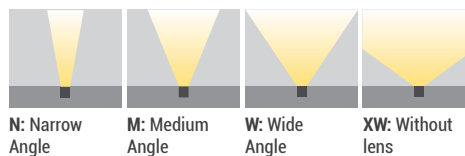
● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options

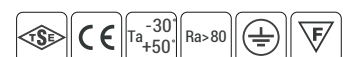


## J Junction Options



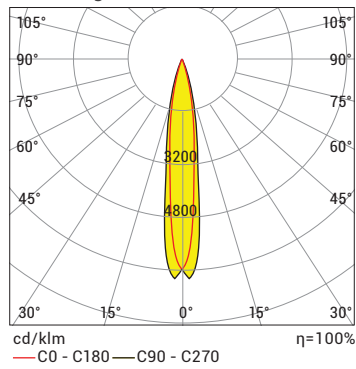
Order Code

P . W . C . S . O . J . M

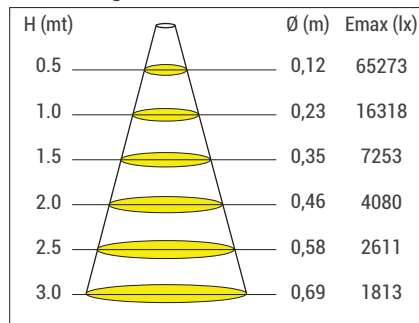


## Product Diagrams

Polar Diagram

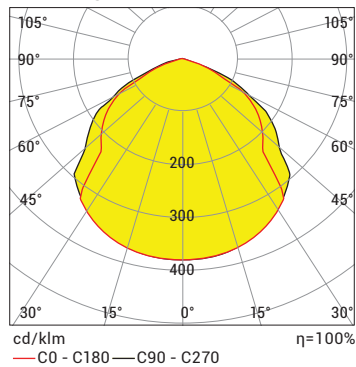


Conical Diagram

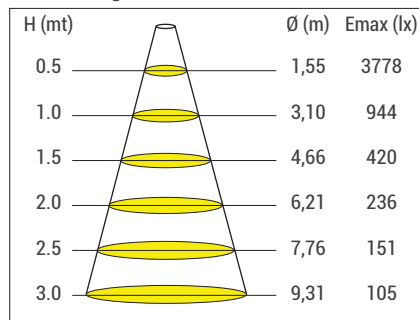


WS118 CW 10D 22W 220V AC IP66

Polar Diagram



Conical Diagram



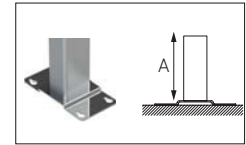
WS118 CW 120D 22W 220V AC IP66

## M Mounting Options



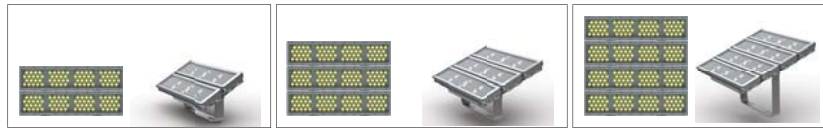
20: Standard Stand 21: Standard stand/ Mounting kit

## Optional Accessories



34: Extension piece A=5cm  
35: Extension piece A=10cm  
36: Extension piece A=20cm  
Extension pieces at any desired length are optional

## Additional Pieces Options



Dual Assembly

Triple Assembly

Quaterd Assembly

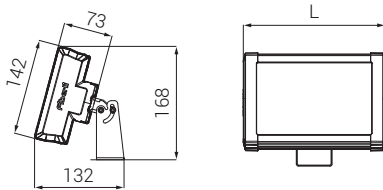
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB	•					
RGBA/W **	•		•			
RGB DMX			•			
WHITE DMX			•			

\*Only for 24V DC

\*\* Produced as RGBW 16 LED and the multiples.

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WS118	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS236	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS336	24	PWM	2x	4x	-
WS354	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS472	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x



- Anodized aluminum extruded profile
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- PC side covers with invisible gland outlet and UV protection.
- High efficiency group lens

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS1-SMALL	WW-NW-CW	220-240V AC	25	3.068	210	1,8
WS2-SMALL	WW-NW-CW	220-240V AC	50	6.273	361	2,7
WS3-SMALL	WW-NW-CW	220-240V AC	75	9.821	515	3,6
WS4-SMALL	WW-NW-CW	220-240V AC	100	12.973	668	4,7

\*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

## C Light Color Options

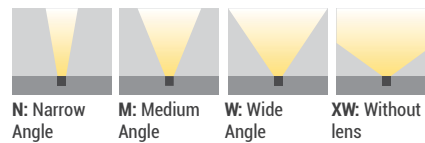
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K
● A: Amber	590nm

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



N: Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without lens

## G Housing Color Options



RAL9005    RAL9007    RAL9016

## J Junction Options



01: Cable    02: IP Socket



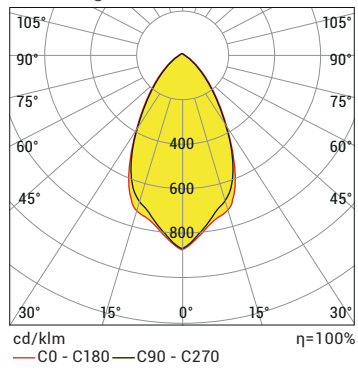
Order Code

P . W . C . S . O . G . J



## Product Diagrams

Polar Diagram









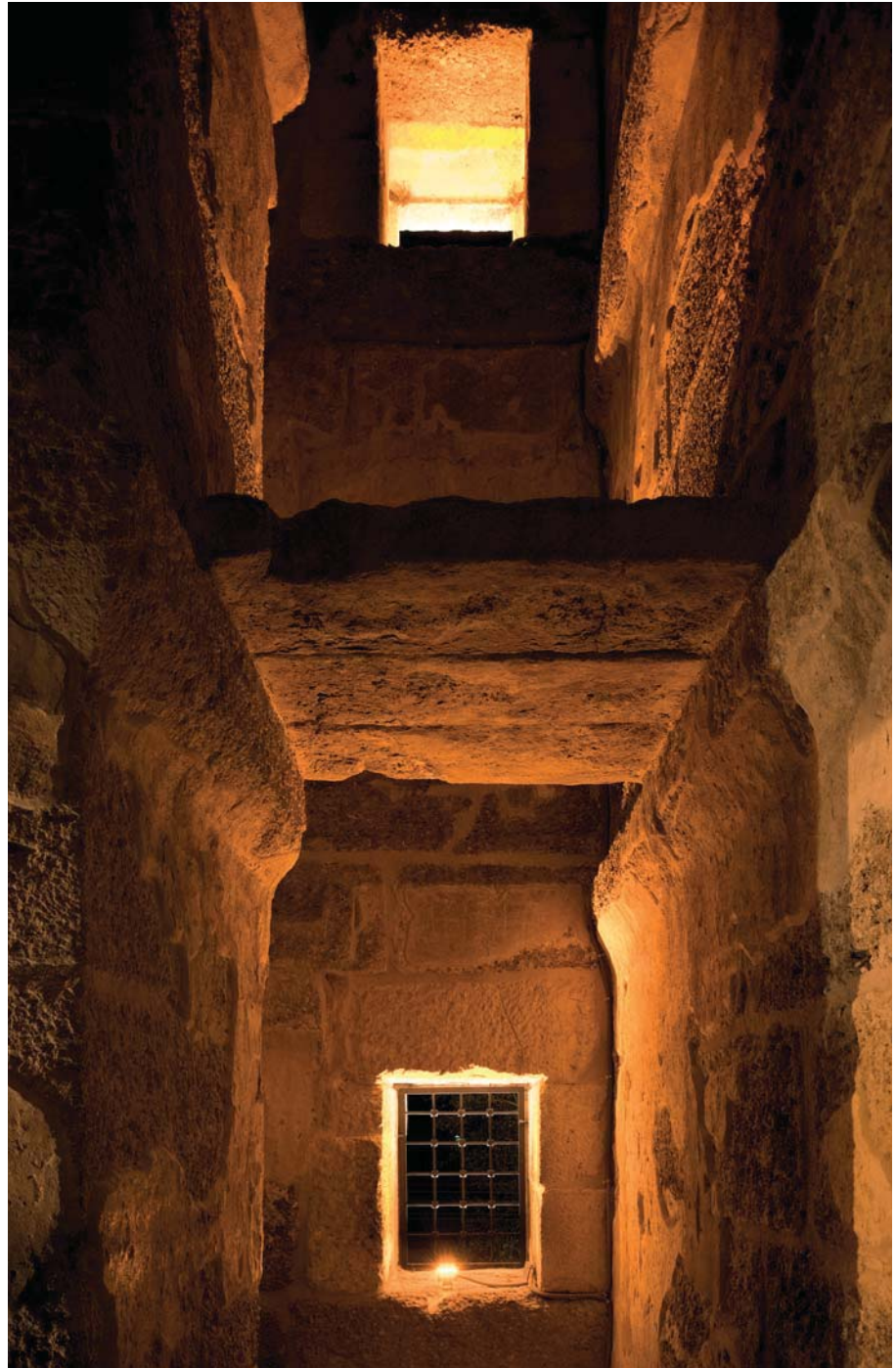
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0,56	9990
1.0	1,13	2497
1.5	1,69	1110
2.0	2,25	624
2.5	2,82	400
3.0	3,38	277

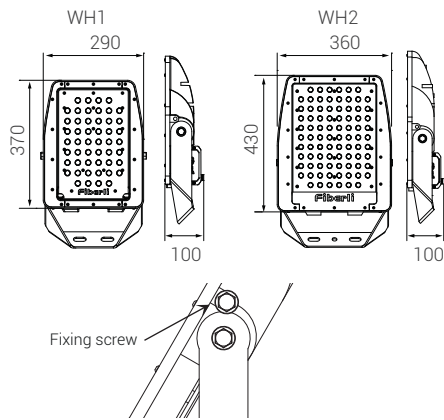
WSSM 72LED CW 60D 25W 220V AC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•		
R,G,B,A 				•		
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						







- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH148	WW-NW-CW	220-240V AC	85	9.260	7,5
WH148	WW-NW-CW	220-240V AC	120	13.440	7,7
WH154	WW-NW-CW	220-240V AC	130	12.787	7,7
WH284	WW-NW-CW	220-240V AC	190	21.441	7,7
WH2112	WW-NW-CW	220-240V AC	250	30.000	7,9
WH2228	WW-NW-CW	220-240V AC	300	35.725	7,7
WH154	RGB	220-240V AC	94	-	7,9
WH284	RGB	220-240V AC	147	-	10,3
WH284 DMX	RGB	220-240V AC	160	-	10,7
WH284-DMX	RGBW/A	220-240V AC	220	-	13,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

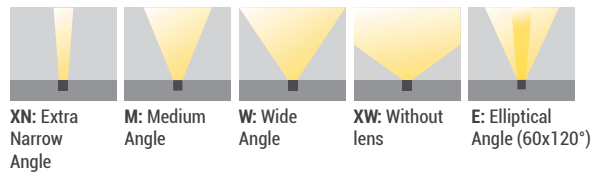
● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options



## J Junction Options



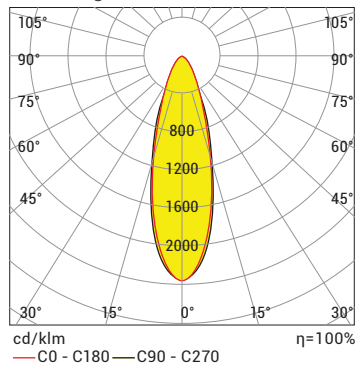
Order Code

P . W . C . S . O . G . J

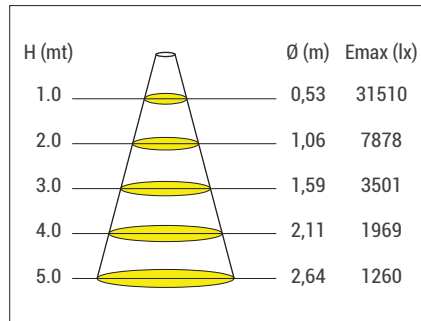


## Product Diagrams

Polar Diagram

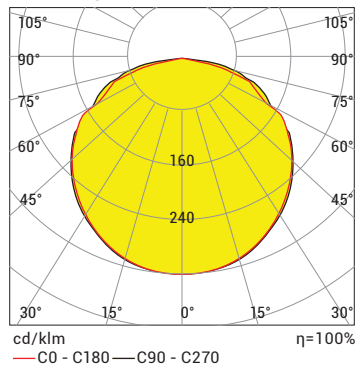


Conical Diagram

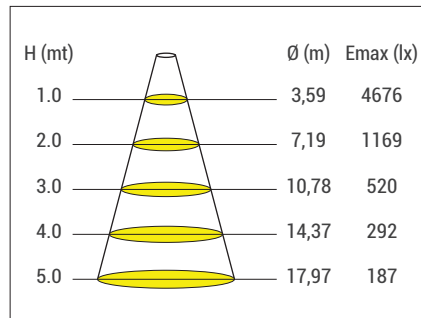


WH154 CW 25D 130W 220V AC IP66

Polar Diagram







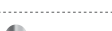

Conical Diagram



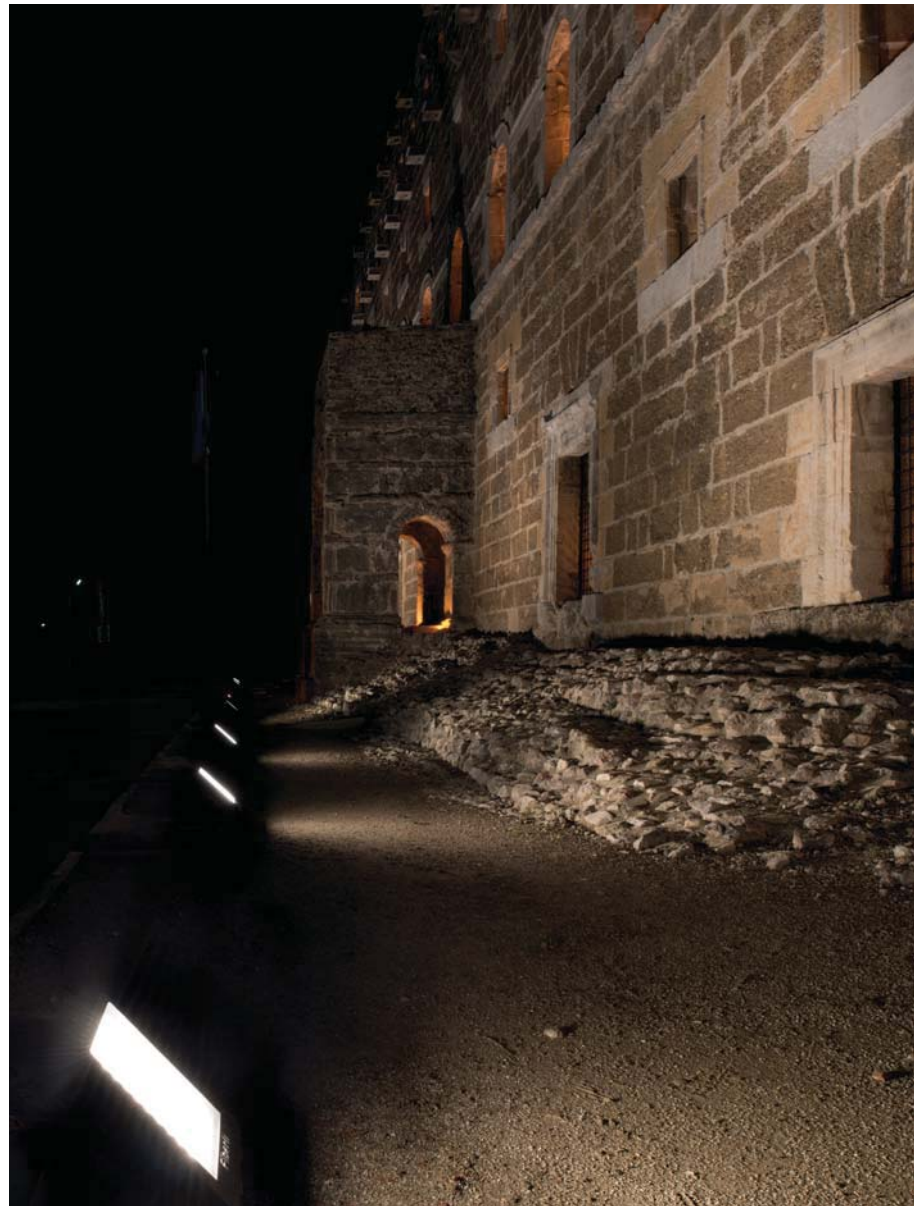
WH154 CW 120D 130W 220V AC



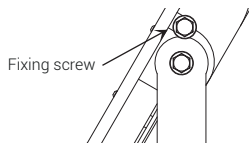
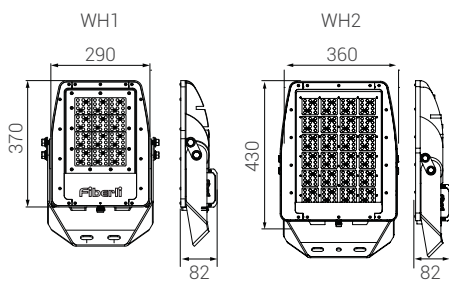
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•		•	•	•	
R,G,B,A 	•		•	•	•	
RGB 	•					
RGBA/W 	•		•			
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WH136	24	INV-PWM	3x	5x	-
WH154	24	INV-PWM	3x	5x	-
WH284	24	INV-PWM	3x	5x	6x



Aspandos Antique Theater, Antalya



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH196	WW-NW-CW	220-240V AC	85	10.834	9,4
WH196	WW-NW-CW	220-240V AC	100	12.200	9,5
WH1144	WW-NW-CW	220-240V AC	110	14.528	9,5
WH1144	WW-NW-CW	220-240V AC	150	18.500	9,5
WH2192	WW-NW-CW	220-240V AC	200	23.397	11,0
WH2288	WW-NW-CW	220-240V AC	300	34.271	13,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



N: Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without lens    E: Elliptical Angle (60x120°)

## G Housing Color Options



RAL9005    RAL9007    RAL9016

## J Junction Options

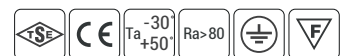


01: Cable    02: IP Socket



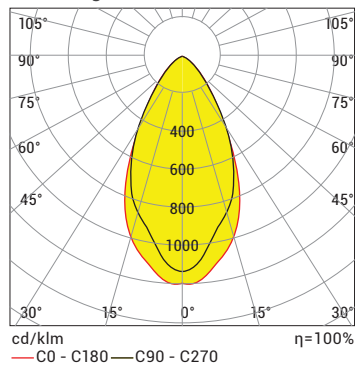
Order Code

P . W . C . S . O . G . J

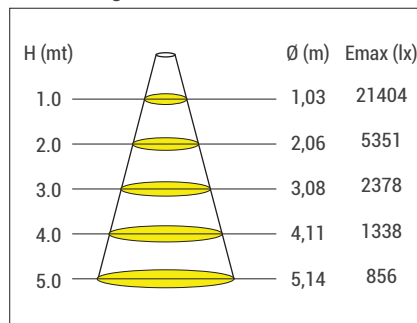


## Product Diagrams

Polar Diagram

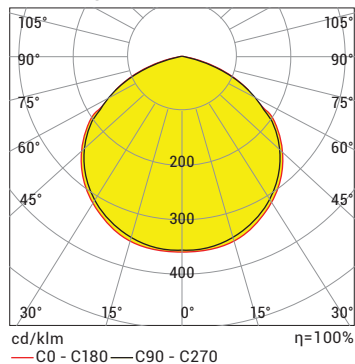


Conical Diagram

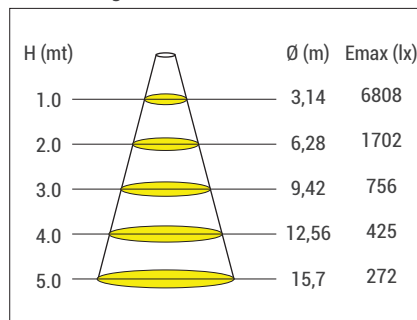


WH1 ECO 144 CW 60D 150 W 220V AC

Polar Diagram



Conical Diagram



WH1 ECO 144 CW 120D 150 W 220V AC

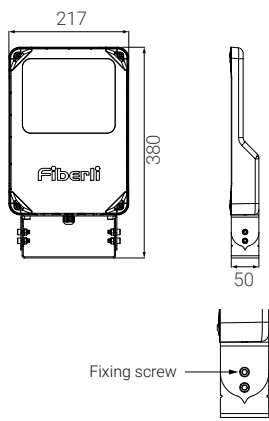


## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Mardan Palace Hotel, Antalya



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 5mm, tempered luminaire glass
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH4	WW-NW-CW	220-240V AC	30	4.270	3,6
WH4	WW-NW-CW	220-240V AC	40	5.328	3,6
WH4	WW-NW-CW	220-240V AC	50	6.311	3,6

*\*Power and Lumen values provided are based off of a "cold white (CW) LED".*

## C Light Color Options

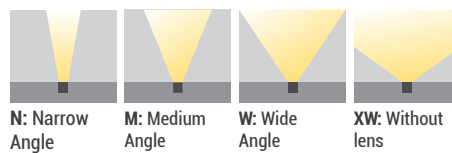
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*\*Different colors are optional*

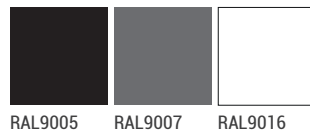
## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options



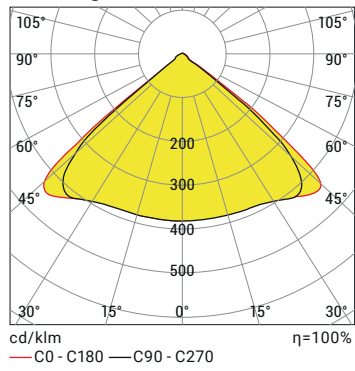
Order Code

P . W . C . S . O . G

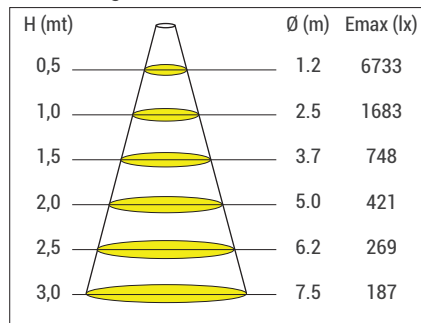


## Product Diagrams

Polar Diagram



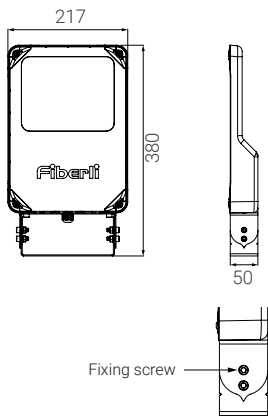
Conical Diagram



WH4 CW65 90D 32W 220VAC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 5mm, tempered luminaire glass
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH4-TECO	WW-NW-CW	220-240V AC	30	4.110	3,6
WH4-TECO	WW-NW-CW	220-240V AC	50	6.710	3,6

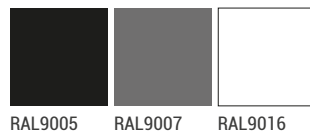
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

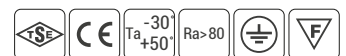
\*Different colors are optional

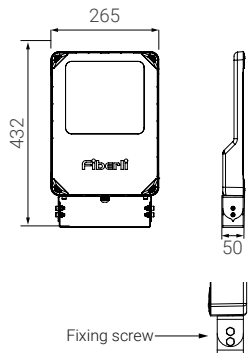
## G Housing Color Options



Order Code

P . W . C . G





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 5mm, tempered luminaire glass
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH6	WW-NW-CW	220-240V AC	60	10.291	4,1
WH6	WW-NW-CW	220-240V AC	70	11.428	4,1
WH6	WW-NW-CW	220-240V AC	80	12.214	4,1
WH6	WW-NW-CW	220-240V AC	90	13.309	4,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



N: Narrow Angle    W: Wide Angle    XW: Without lens

## G Housing Color Options



RAL9005    RAL9007    RAL9016



Order Code

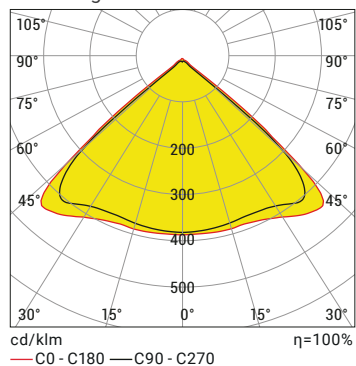
P . W . C . S . O . G



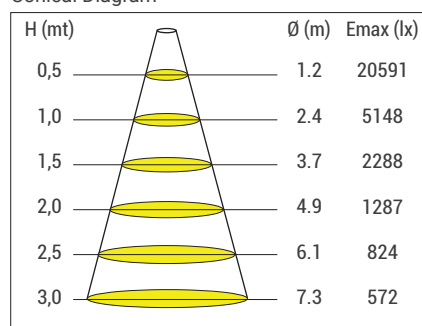


## Product Diagrams

Polar Diagram



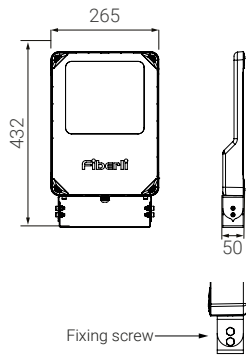
Conical Diagram



WH6 CW65 25D 60W 220VAC IP66

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	•	
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 5mm, tempered luminaire glass
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH6-TECO	WW-NW-CW	220-240V AC	75	10.732	4,1
WH6-TECO	WW-NW-CW	220-240V AC	100	13.350	4,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

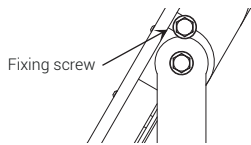
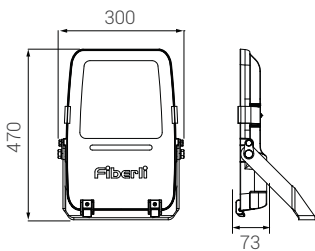
## G Housing Color Options



Order Code

P . W . C . G





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet
- 10kV lightning protection circuit

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH9	WW-NW-CW	220-240V AC	30	3.724	5,20
WH9	WW-NW-CW	220-240V AC	60	8.420	5,20
WH9	WW-NW-CW	220-240V AC	80	10.829	5,20

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

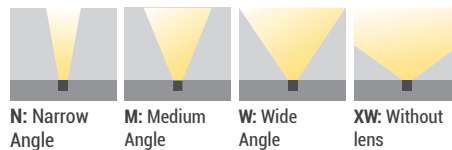
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options



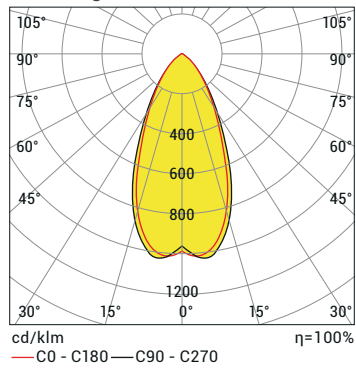
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram









Conical Diagram

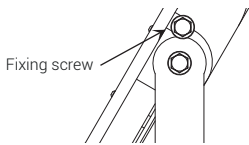
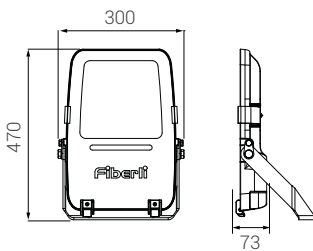
H (mt)	Ø (m)	E <sub>max</sub> (lx)
0,5	0,44	34109
1,0	0,87	8527
1,5	1,31	3790
2,0	1,75	2132
2,5	2,18	1364
3,0	2,62	947

WH9 108 CW 30D 60W 220V AC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH9-TECO	WW-NW-CW	220-240V AC	30	3.660	5,20
WH9-TECO	WW-NW-CW	220-240V AC	50	6.100	5,20
WH9-TECO	WW-NW-CW	220-240V AC	75	9.150	5,20
WH9-TECO	WW-NW-CW	220-240V AC	100	12.200	5,20
WH9-TECO	WW-NW-CW	220-240V AC	125	15.250	5,20

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

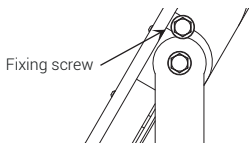
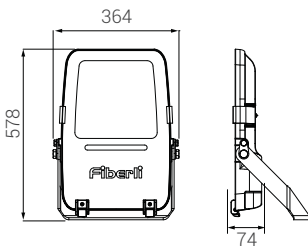
## G Housing Color Options



Order Code

P . W . C . G





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH16	WW-NW-CW	220-240V AC	100	15.018	6,9
WH16	WW-NW-CW	220-240V AC	150	20.000	6,9
WH16	WW-NW-CW	220-240V AC	200	24.957	6,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

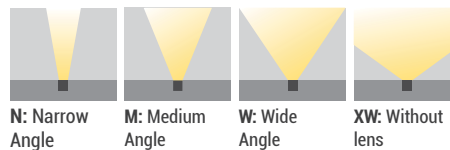
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options



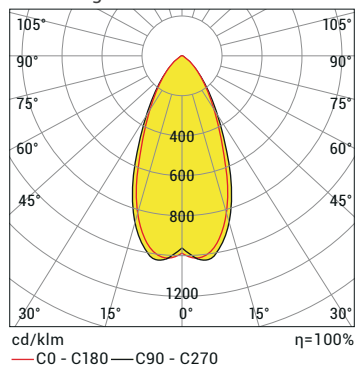
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
0,5	0,44	34109
1,0	0,87	8527
1,5	1,31	3790
2,0	1,75	2132
2,5	2,18	1364
3,0	2,62	947

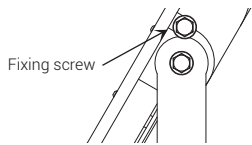
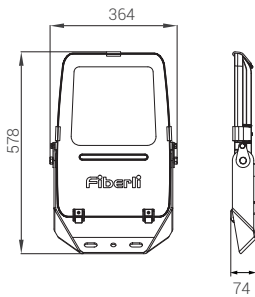
WH9 108 CW 30D 60W 220V AC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Langirt Sports Facilities, İzmir



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH16-TECO	WW-NW-CW	220-240V AC	150	18.300	6,90
WH16-TECO	WW-NW-CW	220-240V AC	200	24.400	6,90
WH16-TECO	WW-NW-CW	220-240V AC	250	30.500	6,90

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## G Housing Color Options

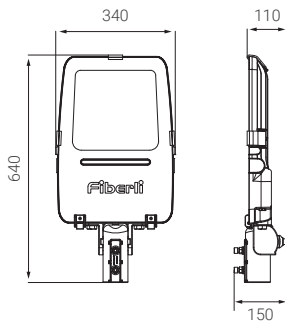


Order Code

P . W . C . G







- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 6kV/10kV lighting protective circuit

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH16	WW-NW-CW	220-240V AC	100	14.300	7,6
SWH16	WW-NW-CW	220-240V AC	120	17.000	7,6
SWH16	WW-NW-CW	220-240V AC	150	20.500	7,6
SWH16	WW-NW-CW	220-240V AC	200	25.000	7,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



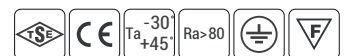
XW: Without lens ME3: 90°x120°

## G Housing Color Options



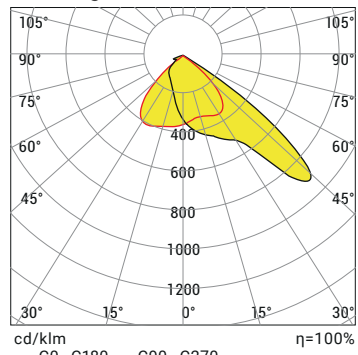
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram

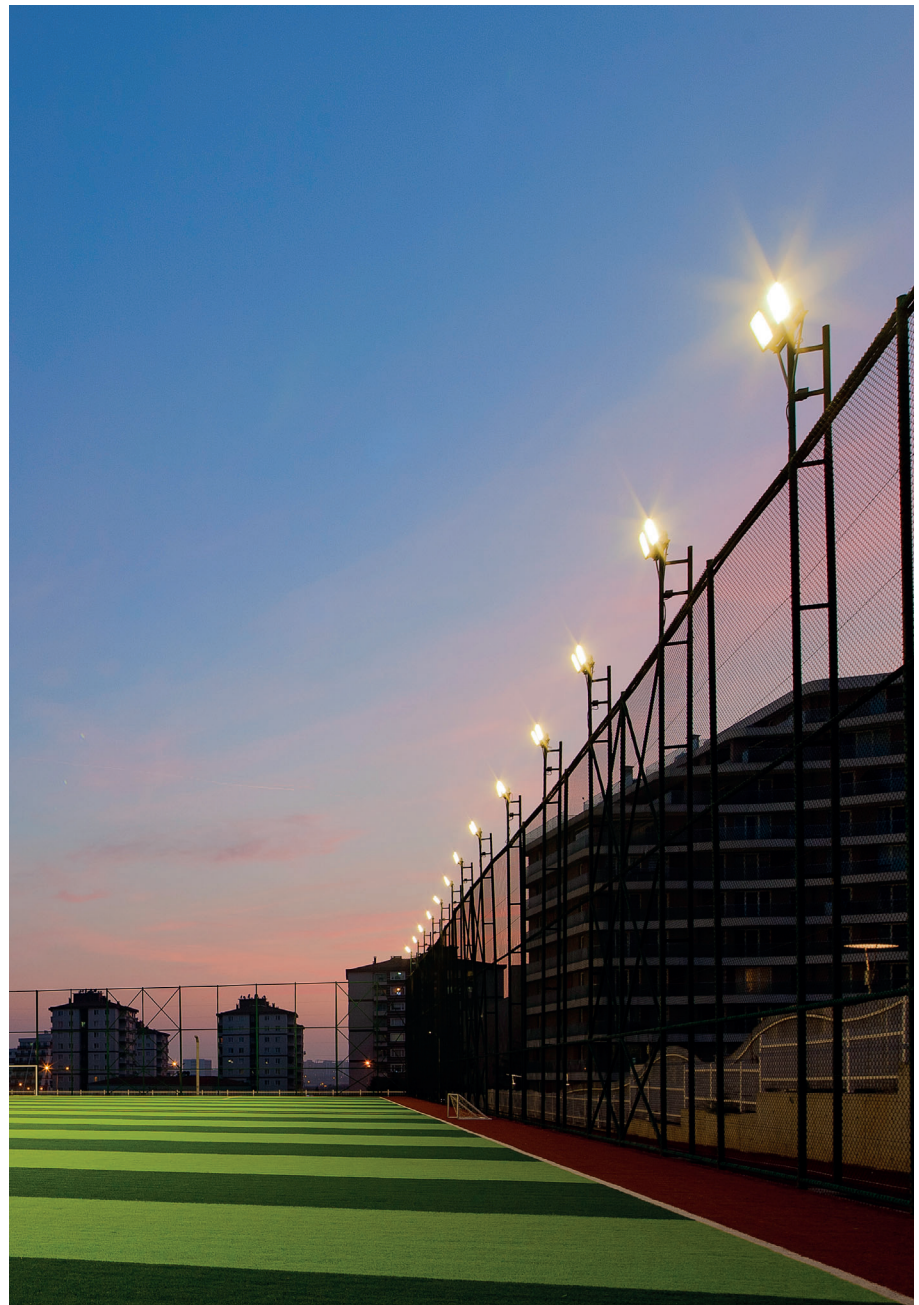


cd/klm  $\eta=100\%$   
 — C0 - C180 — C90 - C270

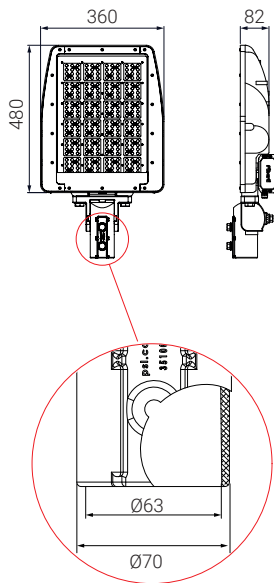
SWH16 CW 200W 90x120 D 220V AC IP66

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	•	
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							



Pendik Sport Complex, İstanbul



- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH2192	WW-NW-CW	220-240V AC	200	25.000	11,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

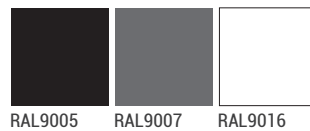
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



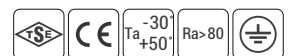
XW: Without lens M3: 90x120°

## G Housing Color Options



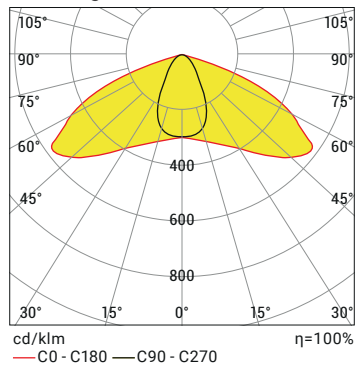
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram



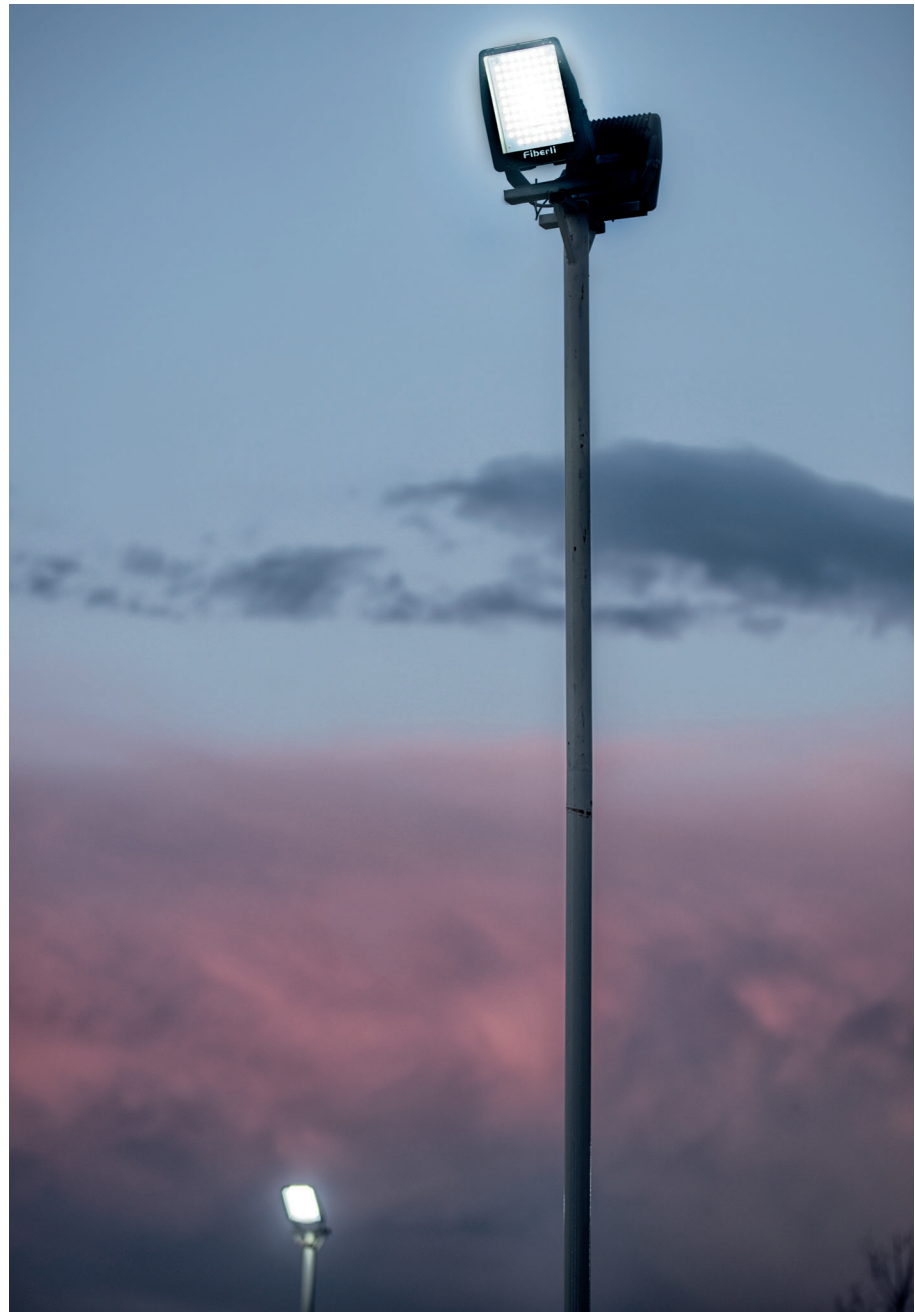
Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
1.0	3,28	6289
2.0	6,55	1572
3.0	9,83	699
4.0	13,11	393
5.0	16,38	252

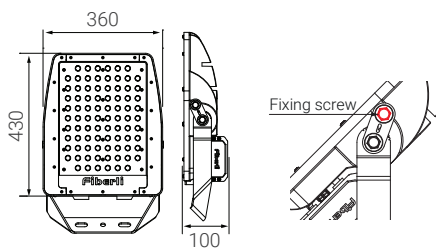
SWH1144 ECO CW 120D 150W 220V AC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



İstek College, Antalya



- Electrostatic powder coated aluminum injection housing
- 5° ultra narrow beam optics
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH220	WW-NW-CW	220-240V AC	130	11.544	13,0
WH220	WW-NW-CW	220-240V AC	180	13.892	13,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle (5°)

## G Housing Color Options



RAL9005 RAL9007 RAL9016

## J Junction Options

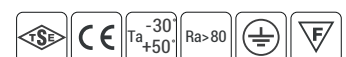


01: Cable 02: IP Socket



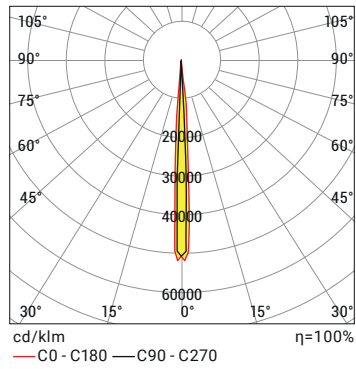
Order Code

P . W . C . S . O . G . J

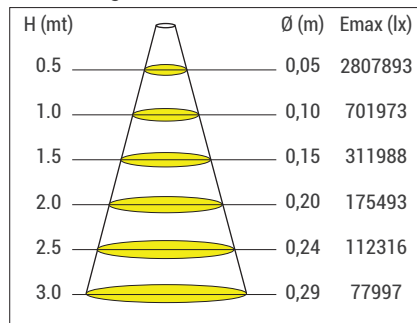


## Product Diagrams

Polar Diagram



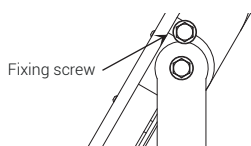
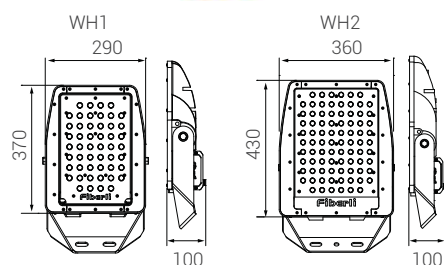
Conical Diagram



WH220 NW40 3D 180W 220VAC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum injection housing
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic painted DKP / Galvanized mounting feet
- Gas explosion protection: II 3G Ex nR IIC T4 Gc
- Dust explosion protection: II 2D Ex tb IIIC T95° CMax Db
- Conformity to standards: EN 60079-0: 2013, EN 60079-15: 2010, EN 60079-31: 2014
- Certificate number: IEP 15 ATEX 0349

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH136-EX	WW-NW-CW	220-240V AC	65	7.100	7,8
WH148-EX	WW-NW-CW	220-240V AC	85	9.260	7,8
WH154-EX	WW-NW-CW	220-240V AC	130	12.787	7,8
WH260-EX	WW-NW-CW	220-240V AC	150	30.000	10,7
WH284-EX	WW-NW-CW	220-240V AC	190	21.441	10,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

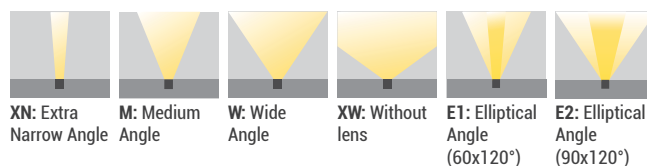
● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options

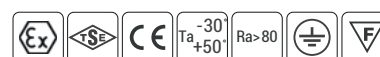


## J Junction Options



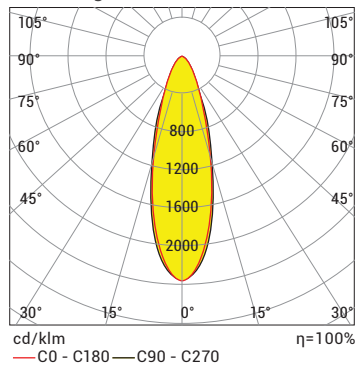
Order Code

P . W . C . S . O . G . J . M

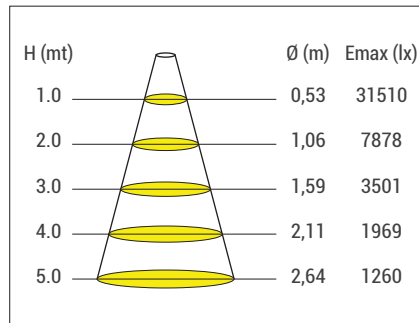


## Product Diagrams

Polar Diagram

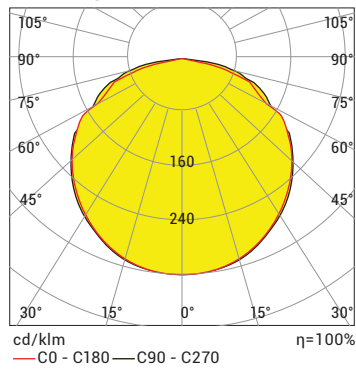


Conical Diagram

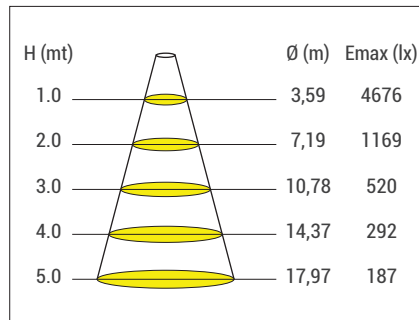


WH154 Ex CW 25D 135W 220V AC IP66

Polar Diagram



Conical Diagram



WH154 Ex CW 120D 128W 220V AC

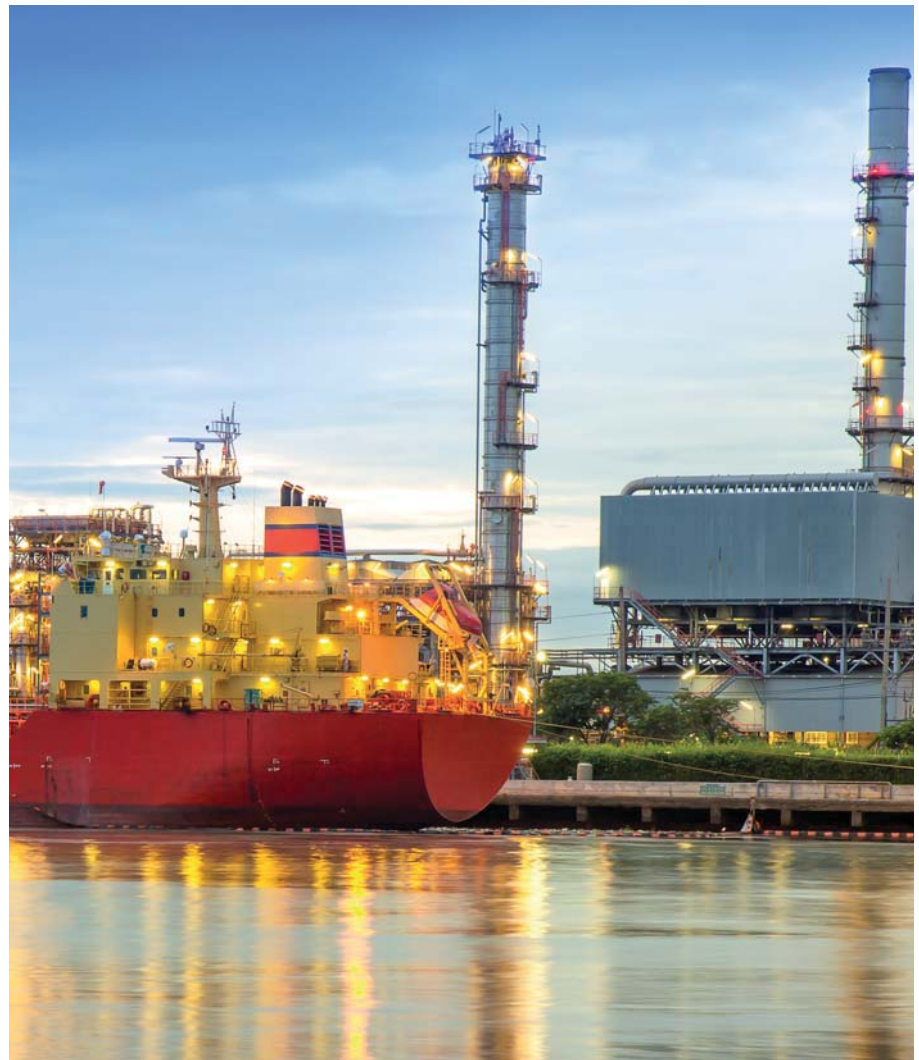
## M Mounting Options



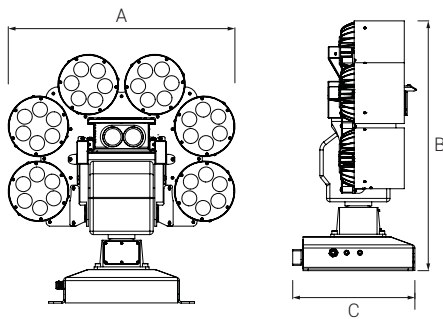
20: Standard Stand      21: Direct mounting kit (optional)  
 Extension pieces at any desired length are optional

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A				•		
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						







Border lighting projector.  
High performance durable design for security lighting. Suitable combinations can be provided with different lenses.

- Stainless fittings
- Electrostatic powder coated aluminum injection body, aluminum, DKP and chrome laser cutting with special formed sheet metal parts
- Panel lock drawer type panel box
- Product top open and close main switch
- 10kV lightning protection circuit
- The product is left and right, completely endless tour It can move 40°, up 75°.

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
KG.400	Border lighting	220-240V AC	400	40.000	680x747x365mm

Name | 32X Optical Zoom 2.1MP HD Network Integrated Module

### LENS

Optical Zoom	32X Optical Zoom
Focal Length	f4.5 ~ 144mm
IRIS Range	Fw1.6 ~ Ft4.8
FoV (D*H*V)	Wide: 67.8° x 59.8° x 40.5° Tele: 2.77° x 2.34° x 1.48°
MOD	1M(wide) ~ 1.5M(tele)
Zoom Speed	≤3s

### CAMERA

Image Sensor	1/2.8"2.13MP Sony Progressive scanning CMOS
Min. Illumination	Color 0.05Lux @(F1.6, AGC ON), ICR ON B/W 0.02Lux @(F1.6, AGC ON), ICR OFF
Electronic Shutter	1/10000s to 1/25s
Day and Night	Automatic day and night type infrared filter switching mechanism
SNR	> 52 dB
Synchronizing System	Internal synchronization

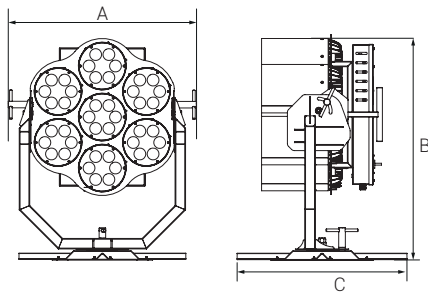
### COMPRESSION

Video Compression	H.264 BP/MP/HP, MJPEG
Max. Resolution	Full HD/1080P (1920x1080) + Full D1 (720x480)
Horizontal Resolution	>1000 TVL (1920x1080pixels)
Multi-streams	1080P + Full D1
Video Bit Rate	32Kbps ~ 8Mbps, under all resolutions, it can in full frame rate simultaneously output multi-channel video streams, frame speed and frame rate are adjustable, H.264 support VBR/CBR
Frame Rate	25/30fps
Audio Compression	G.711 / ACC / MP2

### FUNCTIONS

Focus Mode	Auto Focus, ZF (zoom trigger AF) Manual Focus
Exposure Control	Auto, Manual, prior (shutter or Max AGC), brightness
Exposure Mode	Auto, centre exposure, Global exposure, Manually area
Exposure Compensation	5 levels adjustable
White Balance Gain	Auto, scenes (incandescent lamp, fluorescent lamp, daylight, flash, etc) Manual Auto, threshold value control
BLC	OFF/ON
Strong Light Inhibition	OFF/ON
WDR	dWDR, Auto/I/II/III
Noise Reduction	3D/MCTF digital noise reduction
Day and Night Mode	Auto/Color/BW





Manually controlled border lighting projector  
High performance durable design for security lighting

- Minimum 5lx light level at the center point at a distance of 1,000 meters
- 180° horizontal axis, 35° down and 35° upward movement capability
- 250mm long light refractor that provides glare control
- Providing appropriate combination with different lenses
- 10kV surge protection circuit
- Electrostatic powder coated aluminum injection body
- Aluminum, DKP and chrome sheet metal parts specially shaped by laser cutting
- Stainless fittings
- Drawer type locked panel box
- Glass cone shaped light collector
- Stabilizing feet providing safe installation and usage

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
EAGLE-EYES-M	Border lighting	220-240V AC	380	40.000	720x847x637mm

Tilt Range : -35 ° ~ +35 °

Pan Range : -90 ° ~ +90 °

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

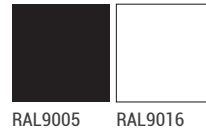
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

## G Housing Color Options

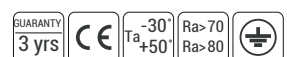


RAL9005 RAL9016



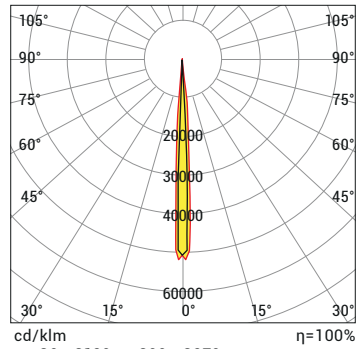
Order Code

P . W . C . S . O . G









## Product Diagrams

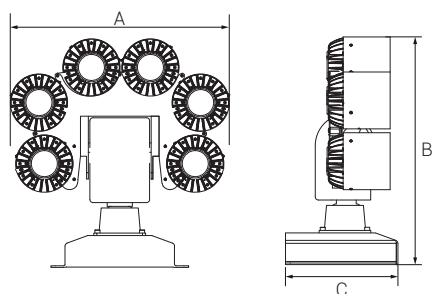
Polar Diagram



EAGLE-EYES-M NW40 5D 400W 220VAC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•		
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Joystick controlled border lighting projector  
High performance durable design for security lighting

- Minimum 5lx light level at the center point at a distance of 1,000 meters
- 360° horizontal axis, 40° down and 75° upward movement capability
- 250mm long light refractor that provides glare control
- Providing appropriate combination with different lenses
- 10kV surge protection circuit
- Electrostatic powder coated aluminum injection body
- Aluminum, DKP and chrome sheet metal parts specially shaped by laser cutting
- Stainless fittings
- Drawer type locked panel box
- Glass cone shaped light collector
- Stabilizing feet providing safe installation and usage

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
EAGLE-EYES-J	Border lighting	220-240V AC	400	40.000	696x727x358mm

Tilt Range : -75° ~ +40°  
Pan Speed : 0.01 ~ 60°/s  
Pan Range : 0 ~ 360° continuous  
Tilt Speed : 0.01 ~ 30°/s  
Communication : RS-485 / RS-422

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

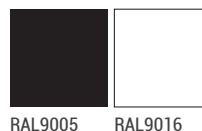
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

## G Housing Color Options

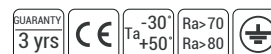


RAL9005 RAL9016



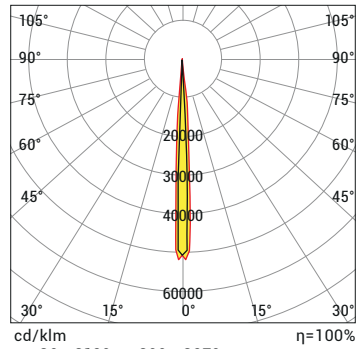
Order Code

P . W . C . S . O . G



## Product Diagrams

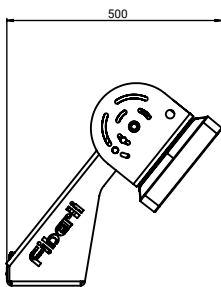
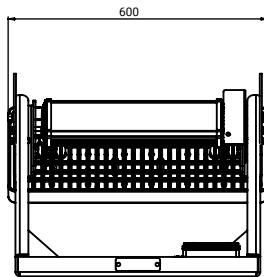
Polar Diagram



EAGLE-EYES-J NW40 5D 400W 220VAC IP66

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•		
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							



- High performance, delivers up to 172.000lm
- Electrostatic powder coated aluminum injection housing
- High efficient thermal design
- 5mm tempered glass
- Electrostatic painted DKP mounting feet
- Stainless fittings and clips
- +60°/-60° tilt angle
- Secure connection with IP67 socket

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SUPREME-I	WW-NW-CW	220-240V AC	440	58.655	23
SUPREME-II	WW-NW-CW	220-240V AC	880	114.400	33
SUPREME-III	WW-NW-CW	220-240V AC	1320	171.600	43
SUPREME-DMX	RGBW	220-240V AC	300	-	23,5

\*Power and Lumen values provided are based off of a "natural white (NW) LED".

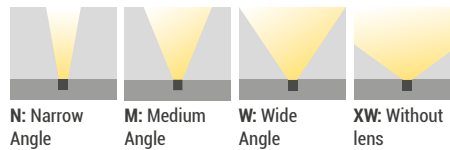
## C Light Color Options

● WW: Warm White	3000K	
● NW: Natural White	4000K	
● CW: Cold White	6500K	

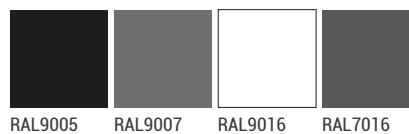
## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options

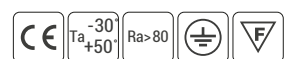


## G Housing Color Options



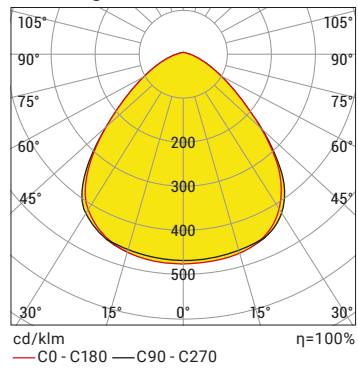
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.05	109629
1.0	2.10	27407
1.5	3.15	12181
2.0	4.20	6852
2.5	5.25	4385
3.0	6.30	3045

SUPREME-I NW40 90D 440W 220VAC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
RGBW			•			

## Additional Pieces Options



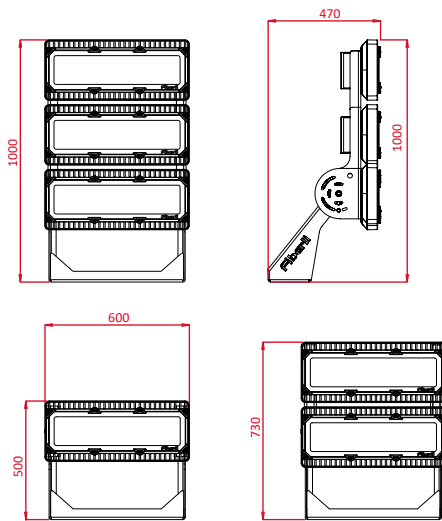
Dual assembly



Triple assembly



Field Illumination



- Superior performance with 172,000 lumens
- High cooling capacity body design
- Ultra-narrow 10° optical output
- Safe connection with IP67 socket
- MultiColor technology

## P W Product & Power Options

Product Name	Light Color	Voltage (V)	Power (W)	Weight (kg)
SUPREME PRO I	WW-NW-CW	220-240V AC	440	30
SUPREME PRO II	WW-NW-CW	220-240V AC	880	42
SUPREME PRO III	WW-NW-CW	220-240V AC	1320	55
SUPREME PRO I DMX	RGBW	220-240V AC	360	30
SUPREME PRO II DMX	RGBW	220-240V AC	720	42
SUPREME PRO III DMX	RGBW	220-240V AC	1080	55

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

## C Light Color Options

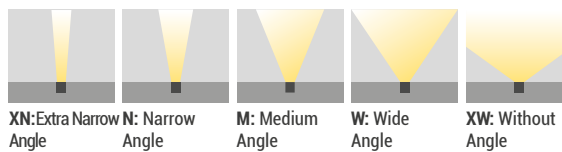
● WW: Warm White	3000K	
● NW: Natural White	4000K	
● CW: Cold White	6500K	

\*Different colors are optional

## S Driver Options

- 01 Standart Driver (ON/OFF)
- 06 DALI Driver

## O Lens Options



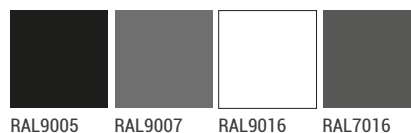
XN: Extra Narrow N: Narrow Angle

M: Medium Angle

W: Wide Angle

XW: Without Angle

## G Body Color Options



RAL9005

RAL9007

RAL9016

RAL7016



Order Code

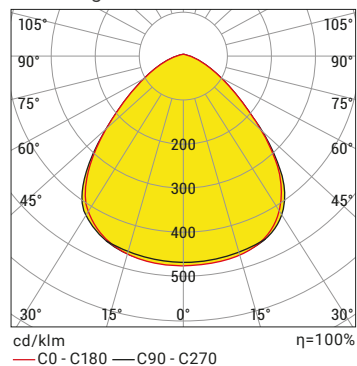
P . W . C . S . O . G







## Product Diagrams

Polar Diagram - 90°



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	1-10V DC	TRIAC
WW-NW-CW 				•	•	
RGBW 			•			

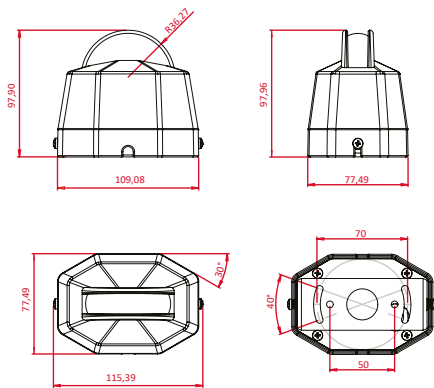
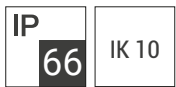
## Additional Pieces Options



Dual assembly



Triple assembly



- Professional LED light source architectural window lighting luminaire
- High optical performance with 1°x180° optical option
- Standard, DMX (Optional) control system

## P W Product & Power Options

Product Name	Light Color	Voltage (V)	Power (W)
CIZ	WW-NW-CW	220-240VAC	6

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm

\*Different colors are optional

## S Driver Options

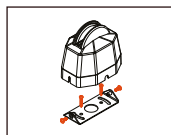
DMX

## G Body Color Options



RAL9005

## M Mounting



Ground

## O Lens Options

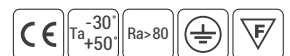


E: Elliptical Angled



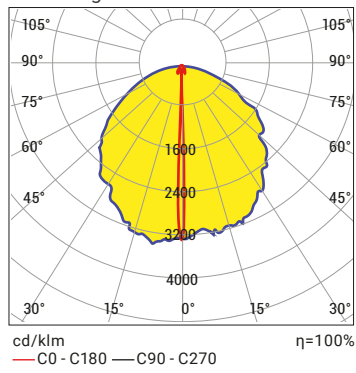
Order Code

P . W . C . S . G . M . O



## Product Diagrams

Polar Diagram - 1x180°

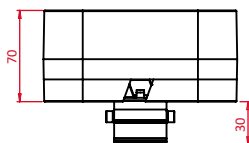
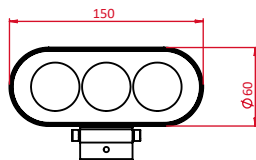
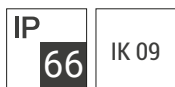


## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	1-10V DC	TRIAC
WW-NW-CW <span style="color: yellow;">●</span> <span style="color: lightblue;">●</span>	●					
R,G,B <span style="color: red;">●</span> <span style="color: green;">●</span> <span style="color: blue;">●</span>			●			



Aspendos Ancient Theater, Antalya



- Professional LED light source architectural WallWasher lighting luminaire
- High performance with 6 different optical options: 8°, 15°, 25°, 40°, 60°, 10°x30°
- Special plastic injection body with RAL 9016, RAL 9005 Masterbatch

## P W Product & Power Options

Product Name	Light Color	Voltage (V)	Power (W)
SNAKE	RGBW	24V DC	6

## C Light Color Options



## S Driver Options

DMX

## G Body Color Options



RAL9005

RAL9016

## O Lens Options



XN: Extra Narrow Angle

N: Narrow Angle

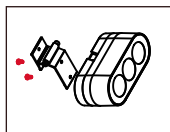
M: Medium Angle

W: Wide Angle

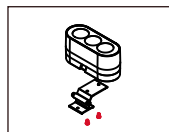
XW: Without Angle

E: Elliptical Angled

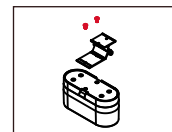
## M Mounting



Wall

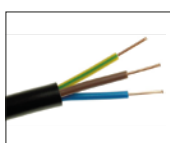


Ground



Surface

## J Junction Options

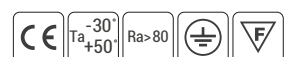


Cable



Order Code

P . W . C . S . G . M . J





# Garden Illumination

LL

DP

CD

WW

**CG**

CS

CF

AC

CB

HB

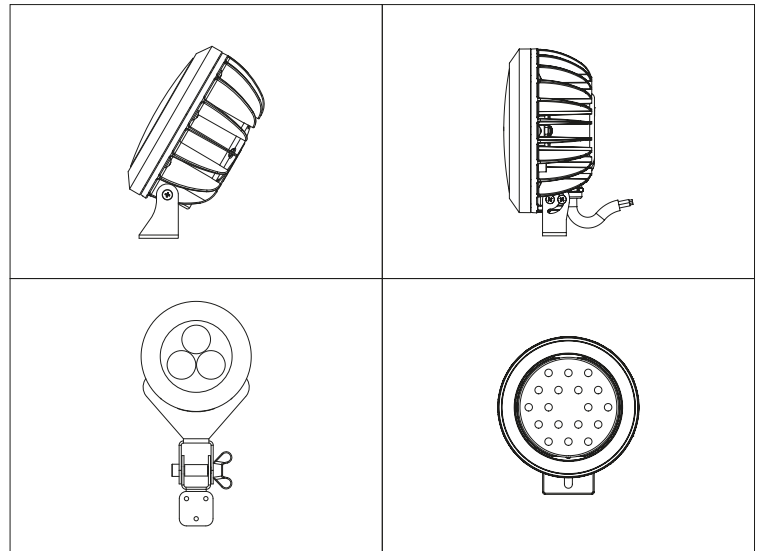
MM

RDMX

LC

FO

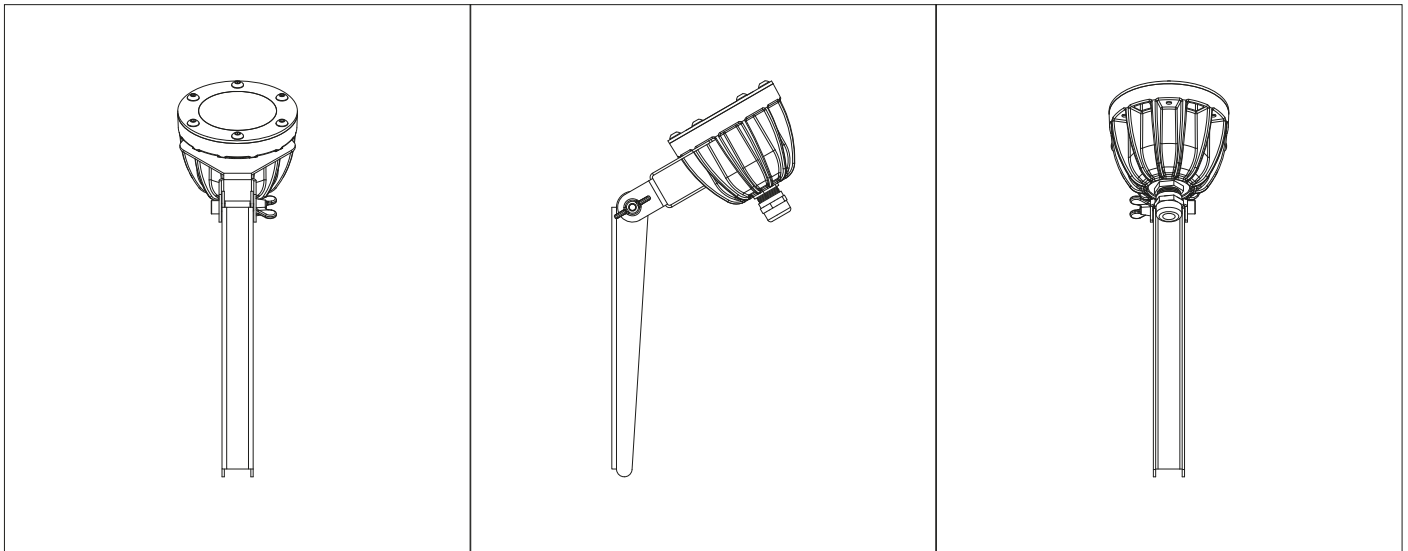
EL



## **Croma Gardena**

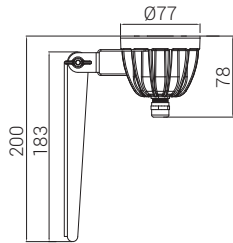
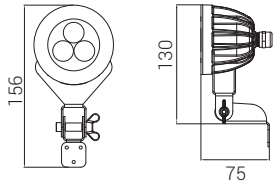
The Croma gardena series is utilised in the illumination of public spaces such as parks, gardens and squares. These luminaires offer an aesthetical illumination of garden compositions. The luminaires can be produced in mono color or RGB as per order. Also, they provide the opportunity to render various luminous effects for landscape architects with a wide range of color options and the capability to change colors. They provide excellent solutions and are energy efficient without being affected by adverse weather conditions due to their powerful technical structures.

# Garden Illumination



## CromaGardena - Garden Lighting





- 316L chrome flange
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- 8mm polycarbonate or tempered luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG103	WW-NW-CW	220-240V AC	4	440	0,7
CG103	RGB	7,5V DC	8	-	0,7

\*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## O Lens Options



XN: Extra Narrow Angle

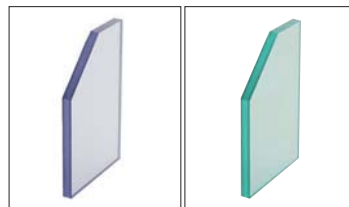
N: Narrow Angle

W: Wide angle

XW: Without lens

\* Only for 220V AC

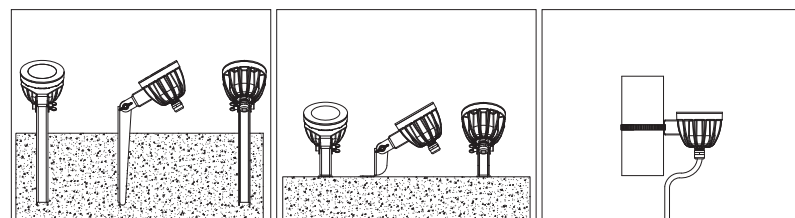
## U Upper Piece Options



03: Polycarbonate glass

04: Tempered glass

## M Mounting Options



13: Stake Mount

14: Screw Mount

15: Clap Mount



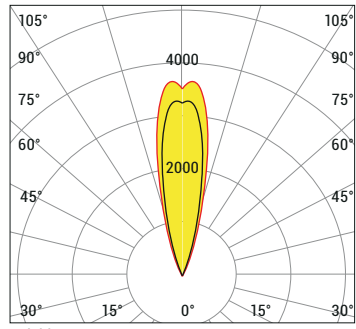
Order Code

P . W . C . O . U . M



## Product Diagrams

Polar Diagram









cd/klm  
—C0 - C180 —C90 - C270  
η=100%

Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3,0	1,47	177
2,5	1,23	255
2,0	0,98	398
1,5	0,74	707
1,0	0,49	1591
0,5	0,25	6365

CG1 3 LED CW 25D 4W 220VAC 50HZ IP67

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

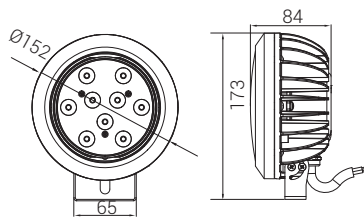
\* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG103	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	-	-



Maxx Royal Hotel, Antalya





- Chrome coated, grey or white PC frame
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- Polycarbonate luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable
- IP68 Air Vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG306	WW-NW-CW	220-240V AC	8	880	1,3
CG309	WW-NW-CW	220-240V AC	10	1.320	1,3
CG309	WW-NW-CW	12-24V DC	10	460	1,3
CG309	RGB	12V DC	13	-	1,3

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

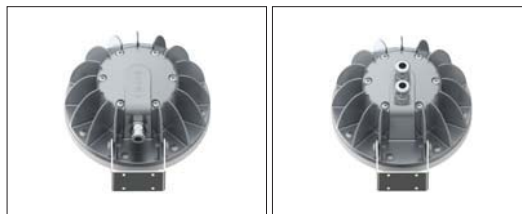
## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    W: Wide angle    XW: Without lens

\* Only for 220V AC

## K Cable Direction Options



09: Single bottom entry

10: Entry and exit on the cover\*

\* Only for DC options

## U Upper Piece Options



15: Chrome coated spot frame

16: Plastic spot frame in white

17: Plastic spot frame in grey



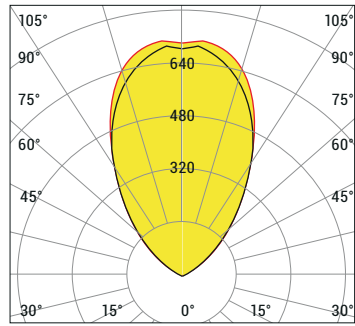
Order Code

P . W . C . O . K . U . M



## Product Diagrams

Polar Diagram



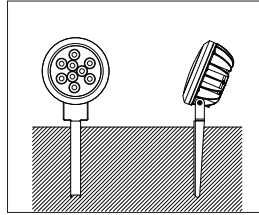
cd/klm  $\eta=100\%$   
 —C0 - C180 —C90 - C270

Conical Diagram

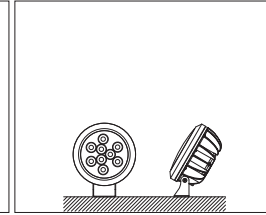
H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
3,0	4,02	101
2,5	3,35	146
2,0	2,68	228
1,5	2,01	405
1,0	1,34	911
0,5	0,67	3643

CG3 9LED CW 60D 12W 220V AC IP67

## M Mounting Options



13: Stake Mount

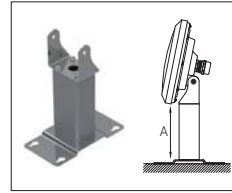


14: Screw Mount

## Additional Piece Option



Reflector



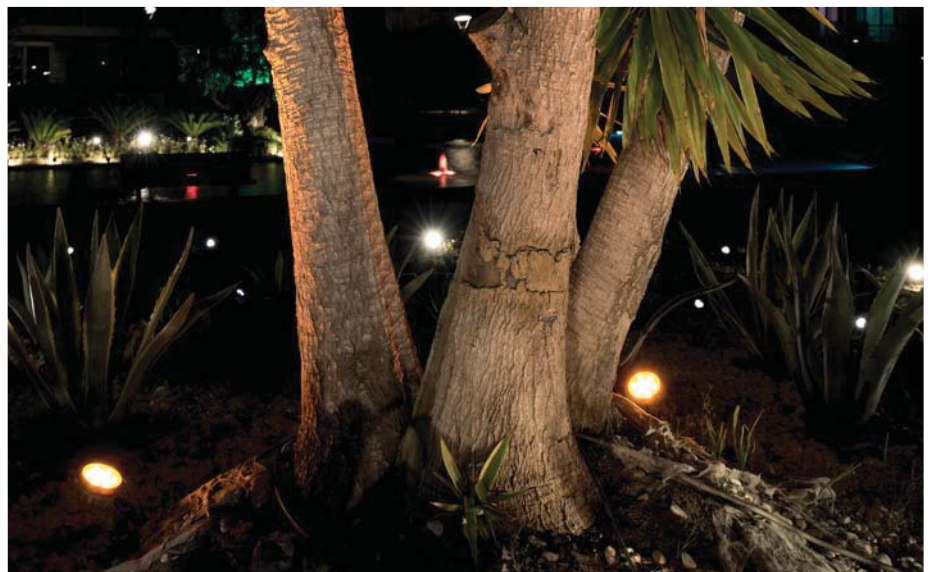
34: 5cm Stand extension pieces  
 35: 10cm  
 36: 20cm

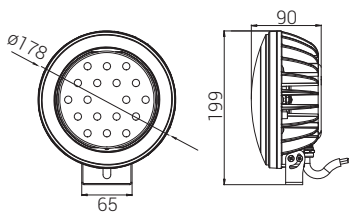
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG309	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-





- Chrome coated, grey or white PC frame
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- Polycarbonate luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable
- IP68 Air Vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG512	WW-NW-CW	220-240V AC	14	1.550	1,75
CG518	WW-NW-CW	220-240V AC	21	2.805	1,75
CG518	RGB	24V DC	26	-	1,75
CG518-DMX	RGB	24V DC	24	-	1,75
CG524-PDMX	RGB/A	12-24V DC	24	-	1,85
CG524-PDMX	RGB/W	12-24V DC	26	-	1,85

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

\*Different colours are optional

## O Lens Options



XN: Extra Narrow Angle

N: Narrow Angle

M: Medium Angle

XW: Without lens

\* Only for 220V AC

## K Cable Direction Options



09: Single bottom entry

10: Entry and exit on the cover\*

\* Only for DC options

## U Upper Piece Options



15: Chrome coated spot frame

16: Plastic spot frame white

17: Plastic spot frame in grey



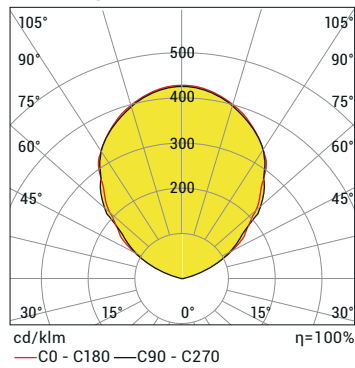
Order Code

P . W . C . O . K . U . M



## Product Diagrams

Polar Diagram

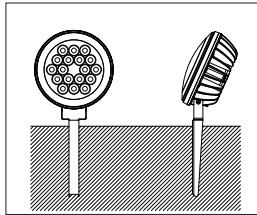


Conical Diagram

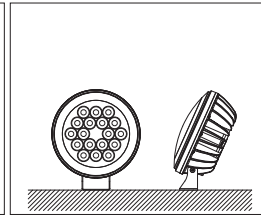
H (mt)	Ø (m)	E <sub>max</sub> (lx)
3,0	6,64	121
2,5	5,53	174
2,0	4,43	272
1,5	3,32	483
1,0	2,21	1087
0,5	1,11	4349

CG5 P18 CW 120D 23W 220VAC IP67

## M Mounting Options



13: Pole Mounting

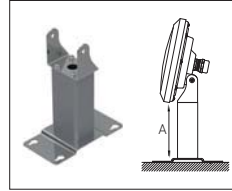


14: Screw Mounting

## Additional Piece Option



Reflector



34: 5cm  
35: 10cm  
36: 20cm  
Stand extension pieces

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

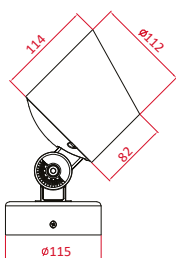
\* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG518	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-



Park Living Homes, İzmir

IP 66 IK 10



- Professional LED light source architectural spotlight luminaire
- Optical solution with lens and reflector in 5 different angles
- MultiColor and FullColor Technology
- Electrostatic powder-coated aluminum injection body
- -20 to +40 °C Operating temperature

## P W Product & Power Options

Product Name	Light Color	Voltage (V)	Power (W)	Luminous Flux (lm)
BELLA-3	WW-NW-CW	220-240V AC	20	1.700
BELLA-3-DMX	RGBW	48V DC	20	-

\*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	
● CW: Cold White	6500K	● B: Blue	465nm	● RGBW

\*Different colors are optional

## S Driver Options

- 01 Standart Driver
- 06 DALI Driver

## G Body Color Options



RAL9005

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    W: Wide Angle

## M Mounting Options



Ground

Stake

Pole

Wall

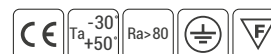
Pendant

Rail



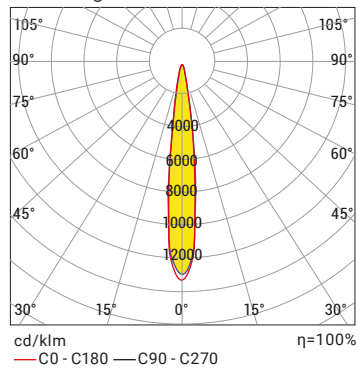
Order Code

P . W . C . S . G . O . M . U

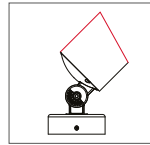


## Product Diagrams

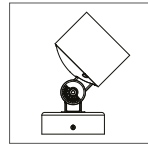
Polar Diagram - 10°



## U Upper Cover Options






With Glare Shield



Without Glare Shield

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	1-10V DC	TRIAC
WW-NW-CW 				•	•	
RGB 			•			
RGBW 			•			



LL

DP

CD

WW

CG

**CS**

CF

AC

CB

HB

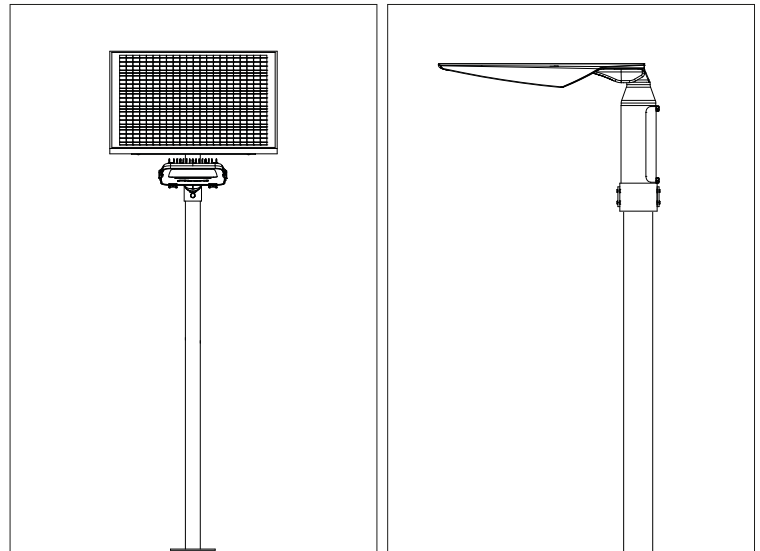
MM

RDMX

LC

FO

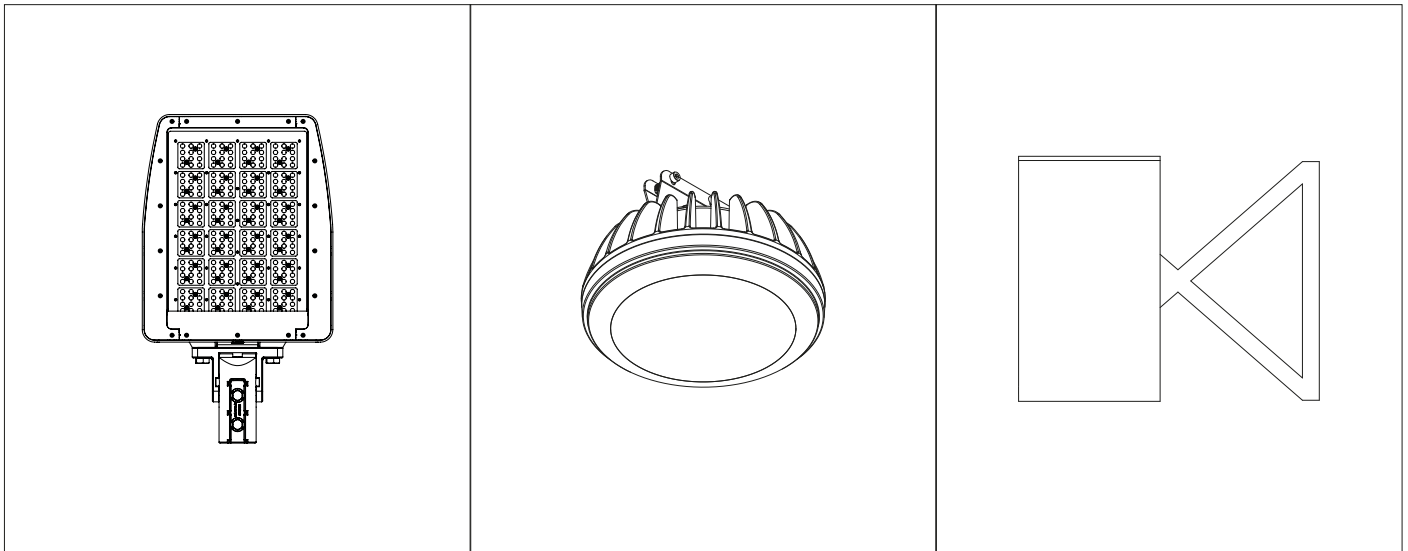
EL



## **Croma Street**

Croma Street is the LED street luminaire, designed to be used on avenues, highways, streets, squares and walking trails. The luminaires are manufactured in three different shades of white; warm white, natural white and cool white. It is an ideal lighting solution, which contributes to a sustainable environment, due to its long lifetime and energy saving conservation.

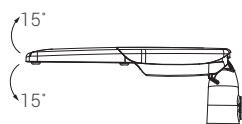
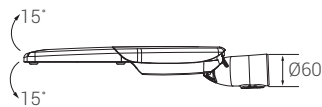
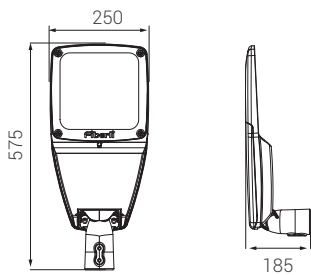
# Street Luminaires



## CromaStreet - Street Lighting







- Electrostatic powder coating or anodized aluminum housing
- 4mm tempered glass
- Silicone seal with high protection level
- Aluminum injection molding covers
- Stainless fitting and clips
- Electrostatic painted aluminum injection assembly foot (adjustable for vertical-horizontal-angled mounting)
- 10kV lighting projection circuit
- NEMA Socket Infrastructure
- Light distribution options suitable for all road conditions
- Power and angle options for all pole types

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYDAN9	WW-NW-CW	220-240V AC	30	3.600	4,4
AYDAN9	WW-NW-CW	220-240V AC	60	7.200	4,4
AYDAN9	WW-NW-CW	220-240V AC	83	9.960	4,4
AYDAN9-PRO	WW-NW-CW	220-240V AC	60	8.700	4,4
AYDAN9-PRO	WW-NW-CW	220-240V AC	85	12.325	4,4

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 27 Programmable LED Driver

## O Lens Options



XW: Without lens    ME3: 90°x120°    ME2 PRO: 90°x150°

## G Housing Color Options

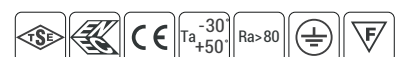


RAL9005    RAL9007    RAL9016



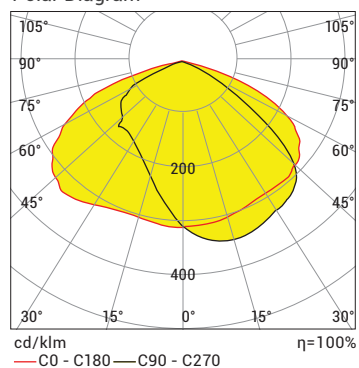
Order Code

P . W . C . S . O . G



## Product Diagrams

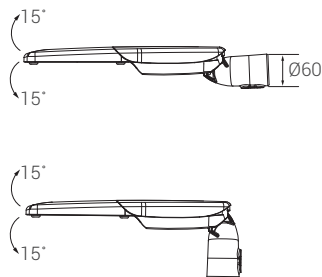
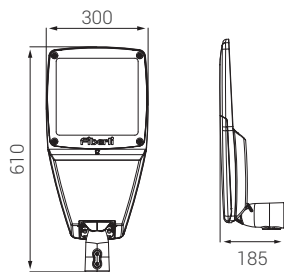
Polar Diagram



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coating or anodized aluminum housing
- 4mm tempered, polyurethane seal glass
- Silicone seal with high protection level
- Aluminum injection molding covers
- Stainless fitting and clips
- Electrostatic painted aluminum injection assembly foot (adjustable for vertical-horizontal-angled mounting)
- 10kV lighting projection circuit
- NEMA Socket Infrastructure
- Light distribution options suitable for all road conditions
- Power and angle options for all pole types

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYDAN16	WW-NW-CW	220-240V AC	100	12.000	6,8
AYDAN16	WW-NW-CW	220-240V AC	120	14.400	6,8
AYDAN16	WW-NW-CW	220-240V AC	150	18.000	7,3
AYDAN16-PRO	WW-NW-CW	220-240V AC	100	14.500	6,8
AYDAN16-PRO	WW-NW-CW	220-240V AC	120	17.400	6,8
AYDAN16-PRO	WW-NW-CW	220-240V AC	150	21.750	7,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

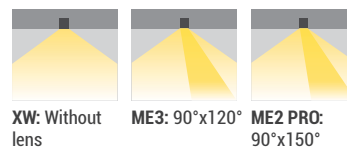
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 27 Programmable LED Driver

## O Lens Options

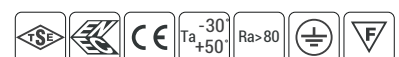


## G Housing Color Options



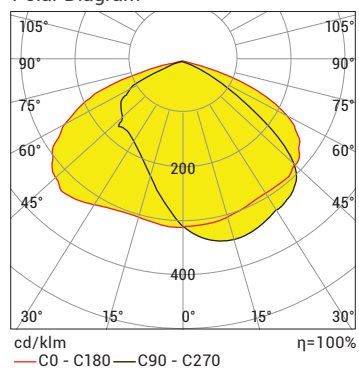
Order Code

P . W . C . S . O . G



## Product Diagrams

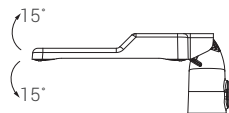
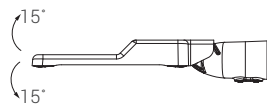
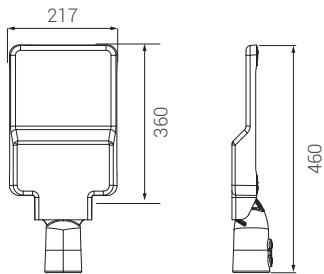
Polar Diagram



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated, die-cast aluminum body and spigot
- 4mm tempered glass
- Ø60mm spigot adaptor can be fitted post-top or lateral entry +15°/-15° tilt angle
- Standard surge protection 10kV
- ENEC certificated, 50.000h life time constant current driver

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYFER4	WW-NW-CW	220-240V AC	30	3.930	2,6
AYFER4	WW-NW-CW	220-240V AC	40	5.125	2,7
AYFER4	WW-NW-CW	220-240V AC	50	6.000	2,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XW: Without lens M3: 90x120°

## G Housing Color Options

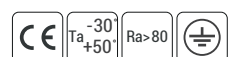


RAL9005 RAL9007 RAL9016



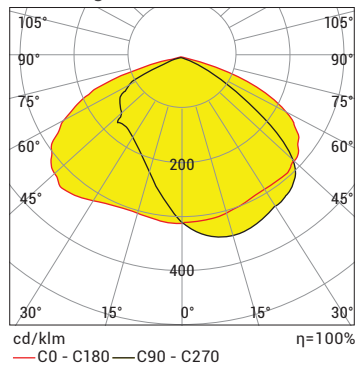
Order Code

P . W . C . S . O . G









## Product Diagrams

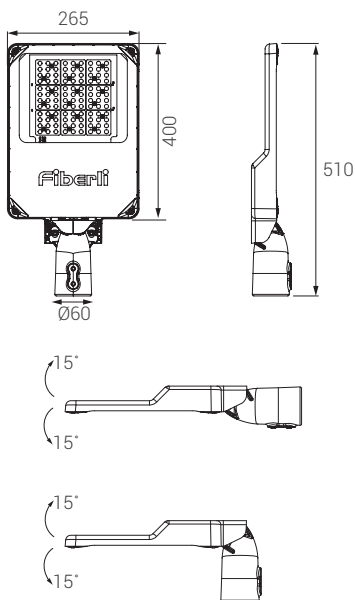
Polar Diagram



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•		
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coated, die-cast aluminum body and spigot
- 4mm tempered glass
- Ø60mm spigot adaptor can be fitted post-top or lateral entry +15°/-15° tilt angle
- Standard surge protection 10kV
- ENEC certificated, 50.000h life time constant current driver

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYFER9	WW-NW-CW	220-240V AC	60	7.740	3,5
AYFER9	WW-NW-CW	220-240V AC	70	8.900	3,6
AYFER9	WW-NW-CW	220-240V AC	80	10.000	3,6
AYFER9	WW-NW-CW	220-240V AC	90	11.100	3,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XW: Without lens M3: 90x120°

## G Housing Color Options

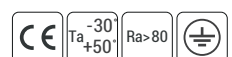


RAL9005 RAL9007 RAL9016



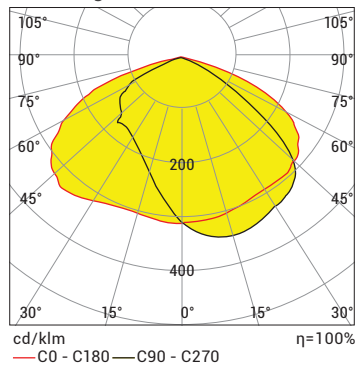
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram

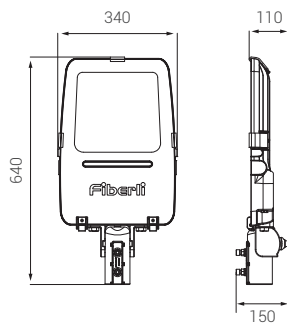


## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						







- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH16	WW-NW-CW	220-240V AC	100	13.500	7,6
SWH16	WW-NW-CW	220-240V AC	120	15.600	7,6
SWH16	WW-NW-CW	220-240V AC	150	19.200	7,6
SWH16	WW-NW-CW	220-240V AC	200	25.000	7,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



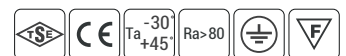
XW: Without lens M3: 90°x120°

## G Housing Color Options



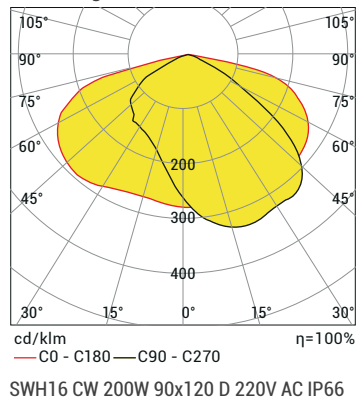
Order Code

P . W . C . S . O . G



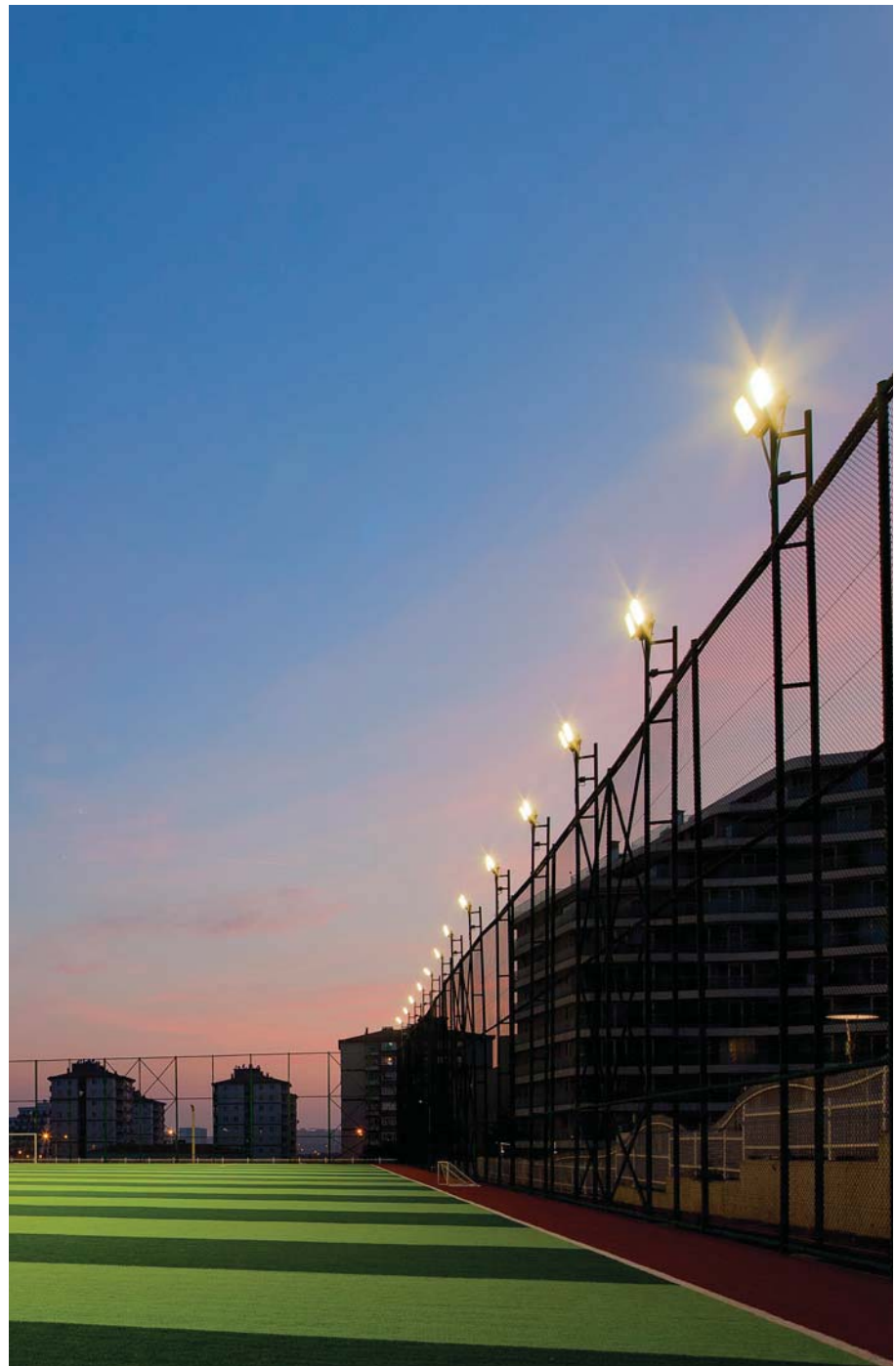
## Product Diagrams

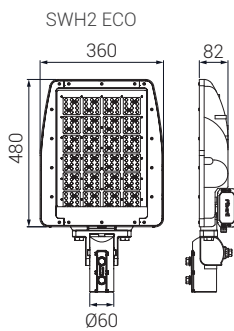
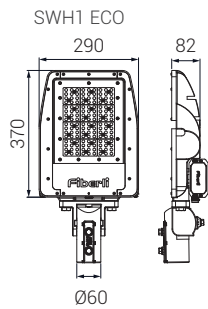
Polar Diagram



## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	•	
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							





- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH196	WW-NW-CW	220-240V AC	85	10.500	8,7
SWH196	WW-NW-CW	220-240V AC	100	12.200	8,7
SWH1144	WW-NW-CW	220-240V AC	110	14.200	8,7
SWH1144	WW-NW-CW	220-240V AC	150	18.500	8,7
SWH2192	WW-NW-CW	220-240V AC	200	25.000	11,1

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

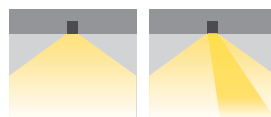
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



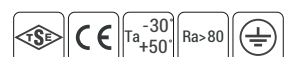
XW: Without lens M3: 90x120°

## G Housing Color Options



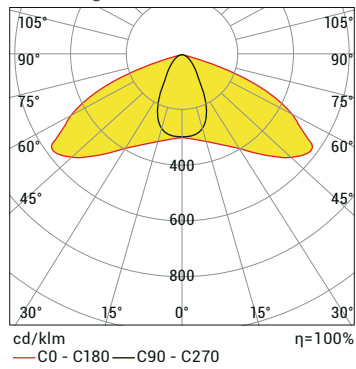
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram



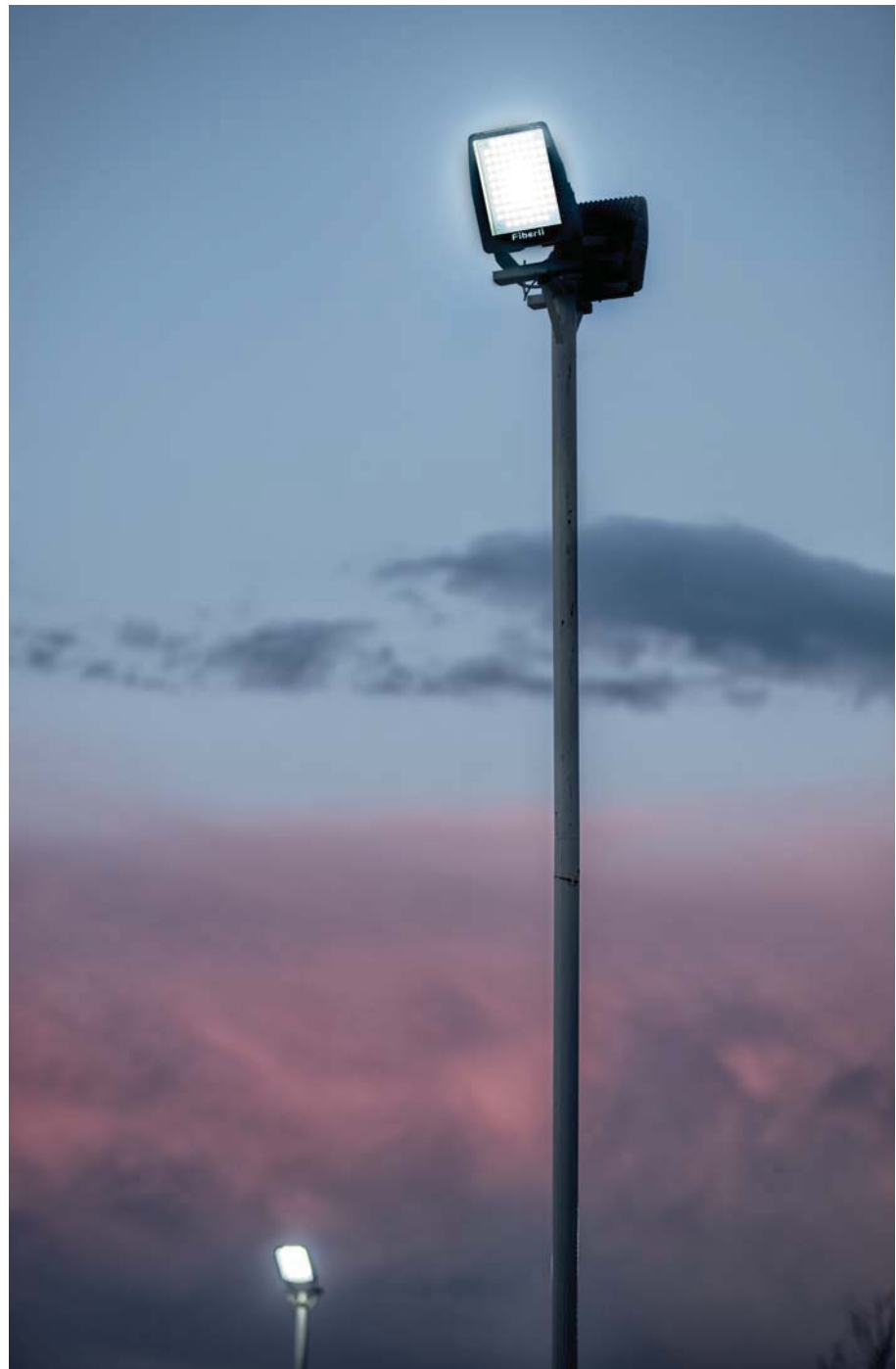
Conical Diagram

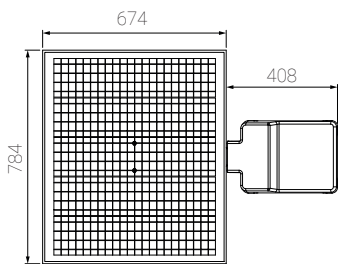
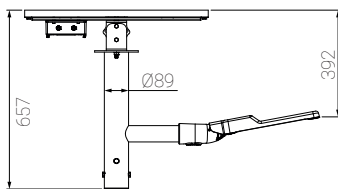
H (mt)	Ø (m)	E <sub>max</sub> (lx)
1.0	3,28	6289
2.0	6,55	1572
3.0	9,83	699
4.0	13,11	393
5.0	16,38	252

SWH1144 ECO CW 120D 150W 220V AC IP66

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic coated aluminum injection body
- Electrostatic coated aluminum injection assembly stand  
(adjustable for vertical- horizontal-angle mounting)
- Customizable use with 6 operating scenarios
- 5mm, tempered, polyurethane gasket armature glass
- Stainless steel fittings and clips
- Durable and highly efficient Li-on battery

## P W Product & Power Options

Product Name	Light Color	Power (W)	Luminous Flux (lm)	Weight (kg)
AYFER-9-SOLAR	WW-NW-CW	30	3.450	3,80

\*Power and Lumen values provided are based off of a cold white (CW) LED.

### Solar Panel

Product name	: Solar Panel
Explanation	: 20V / 80Wp 4A Polycrystal
Charging Time	: 4 hours
Autonomous Time	: 8 hours Full Capacity / 2 days Sensor Mode
Battery Capacity	: 14450 mAh
Battery Voltage	: 14.2 V/ 4S
Sensor Distance	: 4m
Panel Dimensions	: 674x784x37mm

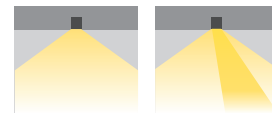
### Operating Modes:

- Continuous open 15W
- Continuous open 30W
- Operates continuously at night 15W
- Operates continuously at night 30W
- Operates when it detects motion 24W; without detection 9W
- Operates when it detects motion 30W; without detection 6W

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## O Lens Options



XW: Without Lens

M3: 90°x120°

## G Housing Color Options

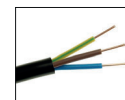


RAL9005

RAL9007

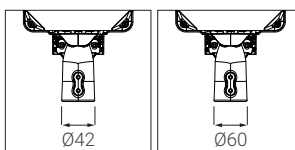
RAL9016

## J Connection Options



01: Cable

## M Mounting Options



MK42: Ø42

MK60: Ø60



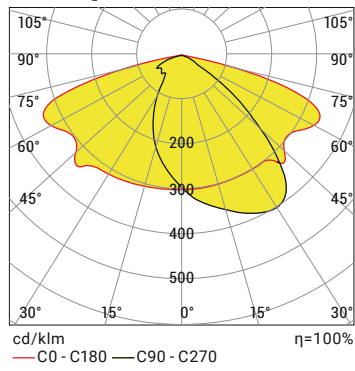
Order code

P . C . O . G . J . M









## Product Diagrams

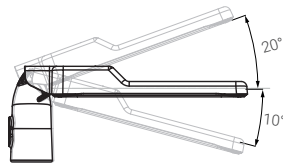
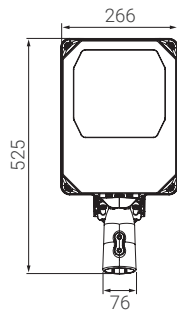
Polar Diagram



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coating or anodized aluminum housing
- 5mm tempered glass
- Silicone seal with high protection level
- Corrosion resistant fittings
- Electrostatic painted aluminum injection assembly foot (adjustable for vertical-horizontal-angled mounting)
- 10kV lighting protective circuit
- Power and angle options for all pole types

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SEYHAN	NW	220-240V AC	45	6.290	4,4
SEYHAN	NW	220-240V AC	72	9.254	4,4

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options

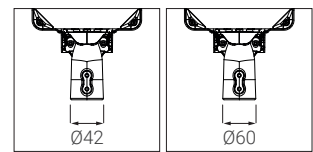


M3: Asymmetric Lens

## G Housing Color Options



## M Mounting Options



MK42: Ø42

MK60: Ø60

## Control System Options

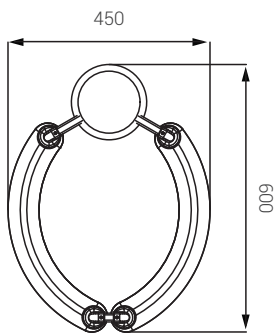
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	NEMA Socket
WW-NW-CW				•		•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . S . O . G . M





- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC SINGLE	WW-NW-CW	220-240V AC	40	3.300	3,2

\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## G Housing Color Options

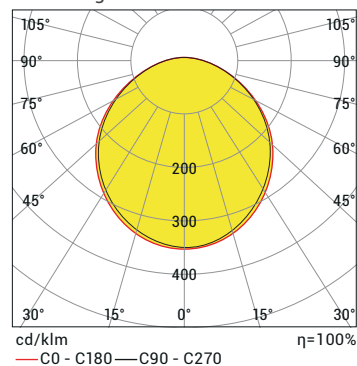


## Control System Options

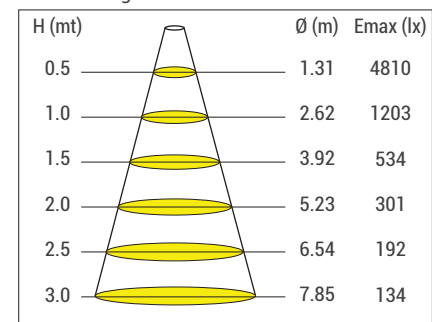
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams

Polar Diagram



Conical Diagram

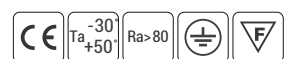


ARC SINGLE NW40 40W 220VAC IP65

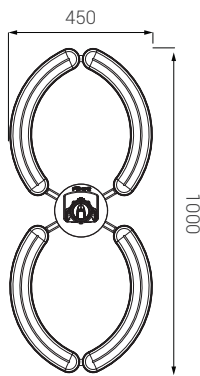


Order Code

P . W . C . S . G







- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC DOUBLE	WW-NW-CW	220-240V AC	80	6.600	5,8

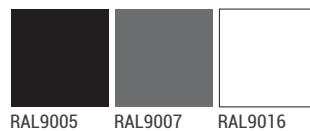
\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## G Housing Color Options



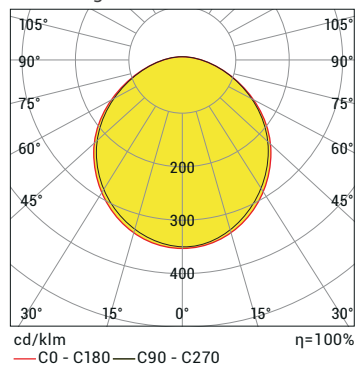
RAL9005 RAL9007 RAL9016

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams

Polar Diagram



Conical Diagram

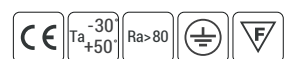
H (mt)	Ø (m)	Emax (lx)
0.5	1.36	9446
1.0	2.72	2362
1.5	4.08	1050
2.0	5.45	590
2.5	6.81	378
3.0	8.17	262

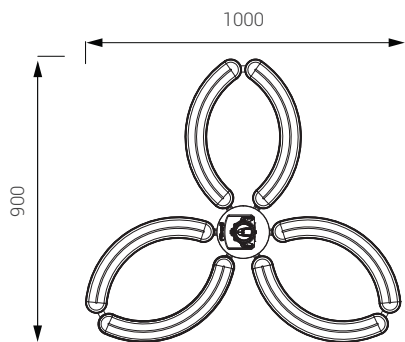
ARC DOUBLE NW40 80W 220V AC IP65



Order Code

P . W . C . S . G





- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC TRIPLE	WW-NW-CW	220-240V AC	120	10.000	7,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

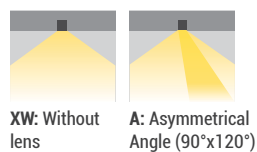
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



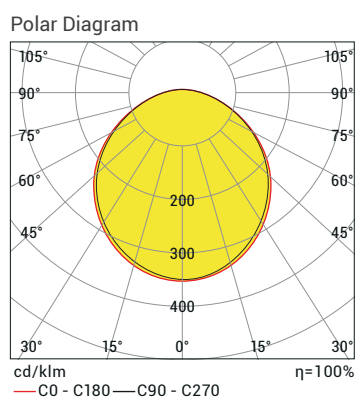
## G Housing Color Options



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams



## Conical Diagram

H (mt)	Ø (m)	Emax (lx)
0.5	1.36	14268
1.0	2.72	3567
1.5	4.08	1585
2.0	5.45	892
2.5	6.81	571
3.0	8.17	396

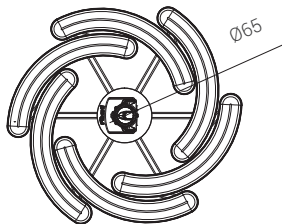
ARC TRIPLE NW40 120W 220V AC IP65



Order Code

P . W . C . S . O . G





- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC SPIRAL	WW-NW-CW	220-240V AC	120	10.000	8,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## G Housing Color Options

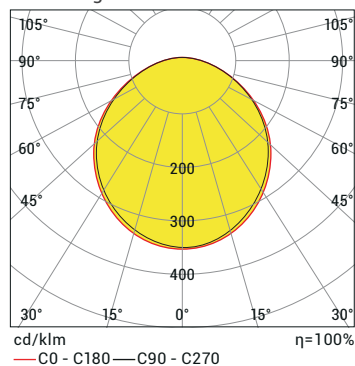


## Control System Options

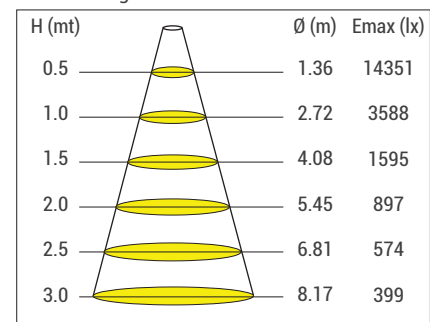
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

## Product Diagrams

Polar Diagram



Conical Diagram

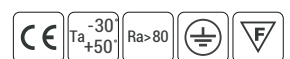


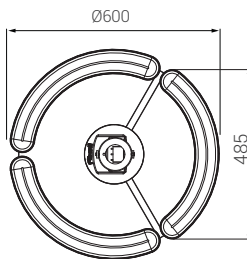
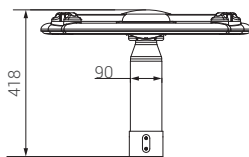
ARC SPIRAL NW40 120W 220V AC IP65



Order Code

P . W . C . S . G





- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuser cover
- Stainless fittings
- Standard surge protection 10kV

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC CIRCO	WW-NW-CW	220-240V AC	60	5.000	4,8
ARC CIRCO-DOB	WW-NW-CW	220-240V AC DOB	60	4.850	4,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

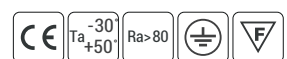
- 01 Standard Driver
- 06 DALI Driver

## G Housing Color Options



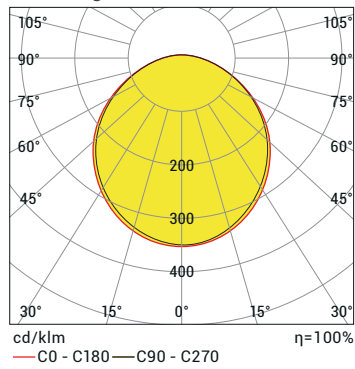
Order Code

P . W . C . S . G



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.30	7216
1.0	2.60	1804
1.5	3.90	802
2.0	5.19	451
2.5	6.49	289
3.0	7.79	200

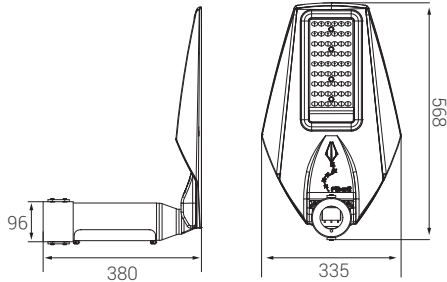
ARC CIRCO NW40 60W 220V AC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Konyaaltı Beach, Antalya



- 2,5 mm wall thickness electrostatic powder coated aluminum injection profile
- Stainless fittings
- Wide angle asymmetric lens
- Originally wide design of the product allows the fixture to cool effectively without any cooling fins

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
KITE	WW-NW-CW	220-240V AC	40	4.910	3,9
KITE	WW-NW-CW	220-240V AC	60	7.654	4,0
KITE	WW-NW-CW	220-240V AC	80	9.934	4,0
KITE	WW-NW-CW	220-240V AC	100	12.100	4,0
KITE-DOB	WW-NW-CW	220-240V AC DOB	50	5.300	3,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".  
 \*\*Product weights are provided without the weight of the pole

## C Light Color Options

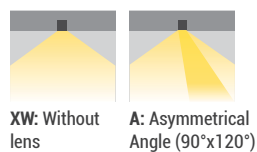
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## G Housing Color Options



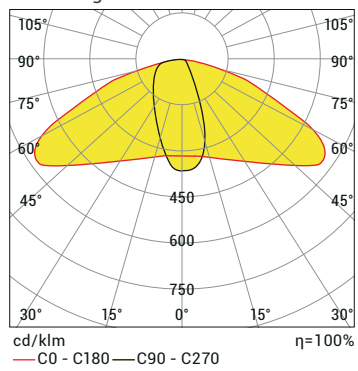
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram



## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





## Boomerang

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

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# Boomerang

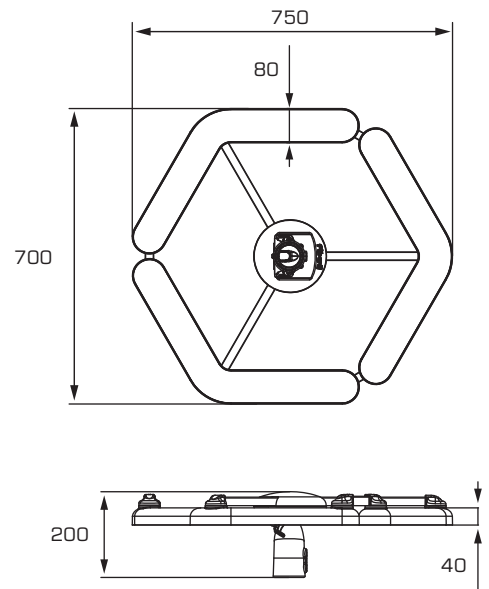
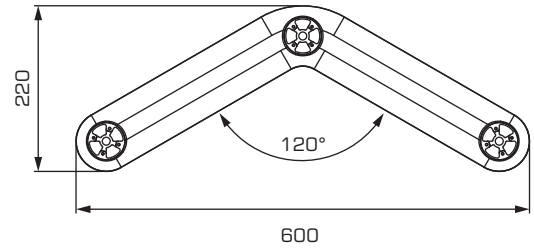
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*



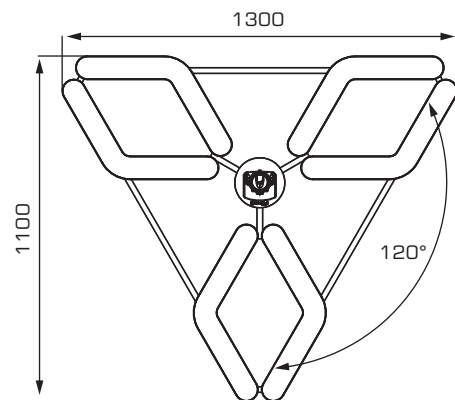


# Boomerang

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



Boomerang Circo



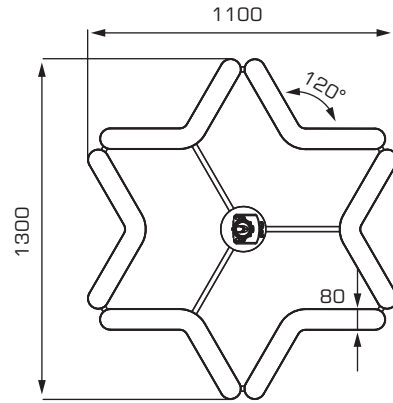
Boomerang Triple

# Boomerang

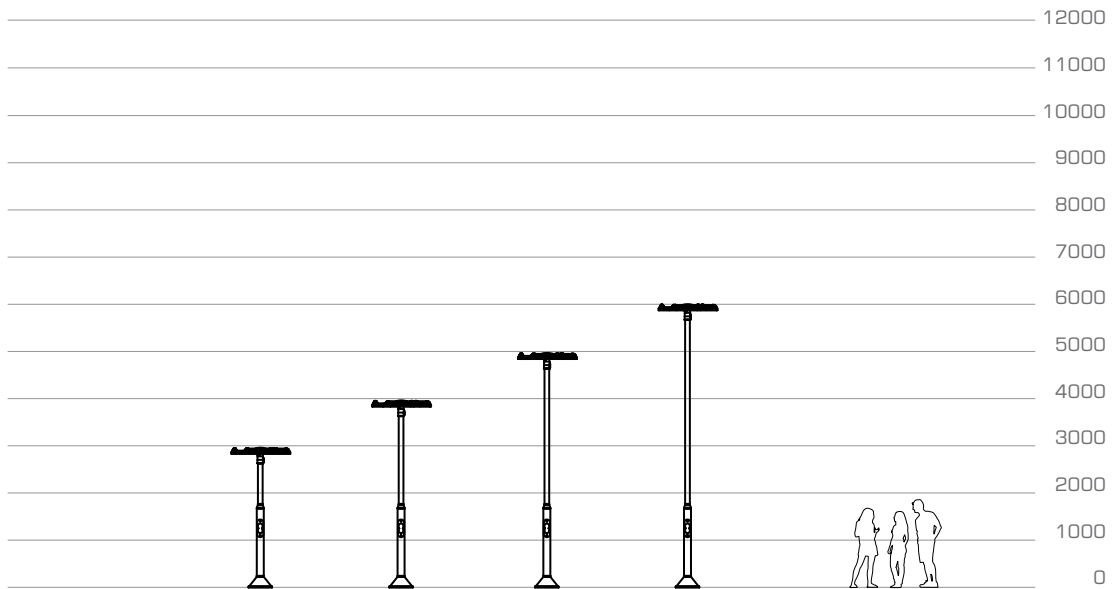
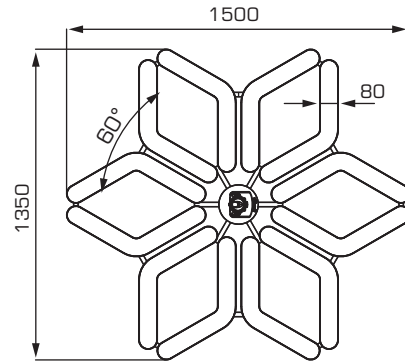
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



Boomerang Star



Boomerang Snow Lake





# Boomerang

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk Length
Boomerang Circo	40W	3300lm	*3-4-5-6m
Boomerang Triple	80W	6600lm	*3-4-5-6m
Boomerang Star	120W	10000lm	*3-4-5-6m
Boomerang Snow L.120W	120W	10000lm	*3-4-5-6m

\*Kullanılabilir direk ölçüleridir | \*Adjustable pole dimensions

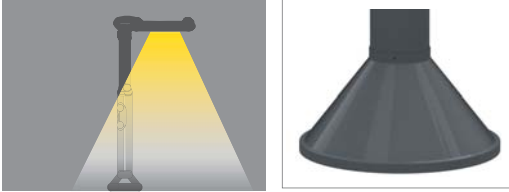
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



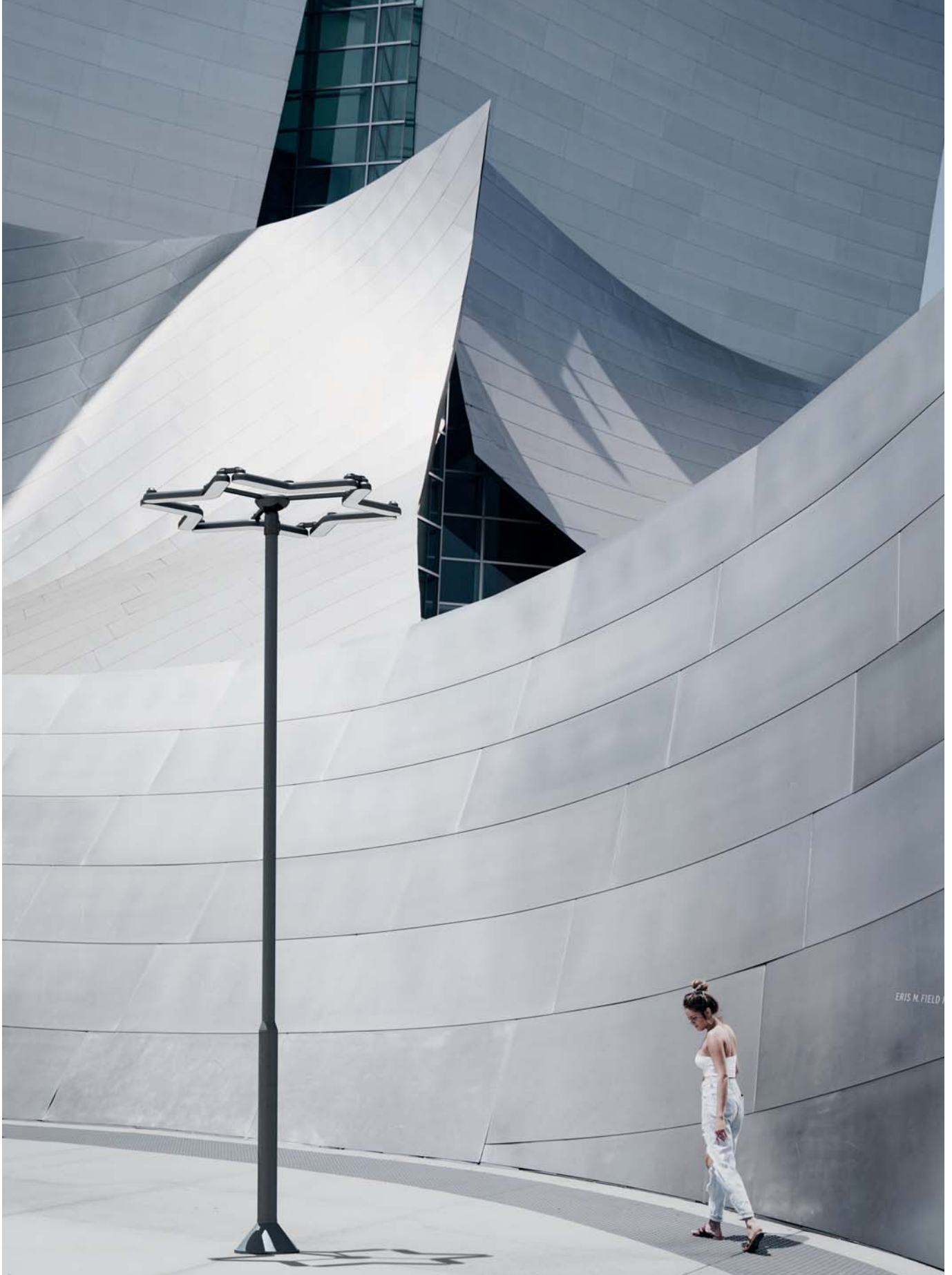
Sigorta  
Fuse

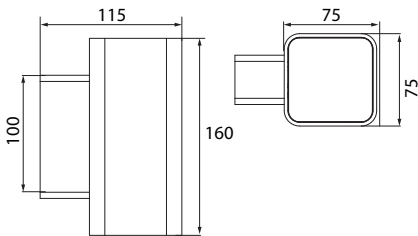
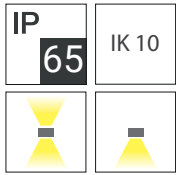
Parafudr  
Surge protection device

GUARANTY 3 yrs	CE	TSE	RoHS	ERC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
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# Boomerang

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*





- Electrostatic powder coated aluminum body
- Tempered glass
- Stainless connectors
- One-way or two-way light output with different beam angle possibility

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SSA75-SINGLE	WW-NW-CW	220-240V AC	8	820	1,0
SSA75-DOUBLE	WW-NW-CW	220-240V AC	11	1.320	1,4

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

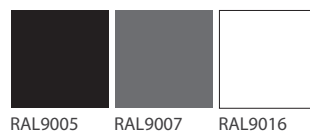
## O Lens Options



N: Narrow Angle  
M: Medium Angle

Lower and upper direction light angles can be selected separately.

## G Housing Color Options

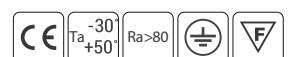


RAL9005 RAL9007 RAL9016



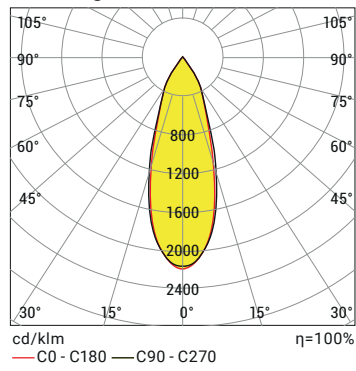
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram

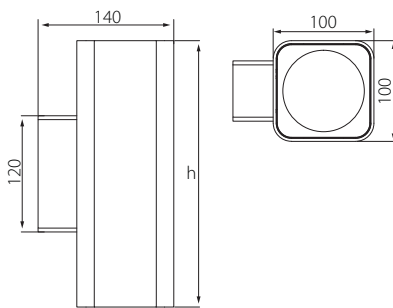


H (mt)	Ø (m)	E <sub>max</sub> (lx)
0.5	0.32	5743
1.0	0.64	1436
1.5	1.96	638
2.0	1.28	359
2.5	1.61	230
3.0	1.92	160

SSA75-SINGLE 7W 36D NW40 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum body
- Electrostatic powder coated aluminum injection cooler
- Tempered glass
- Stainless connectors

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Height (h) (mm)	Weight (kg)
SSA100-SINGLE	WW-NW-CW	220-240V AC	8	980	200	1,2
SSA100-DOUBLE	WW-NW-CW	220-240V AC	18	2.160	200	1,5
SSA100-DOUBLE	WW-NW-CW	220-240V AC	18	2.160	275	1,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K
● A: Amber	590nm

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

M: Medium Angle

W: Wide Angle

Lower and upper direction light angles can be selected separately.

## G Housing Color Options



RAL9005

RAL9007

RAL9016



Order Code

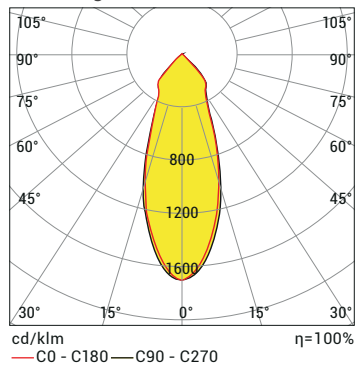
P . W . C . S . O . G





## Product Diagrams

Polar Diagram









Conical Diagram

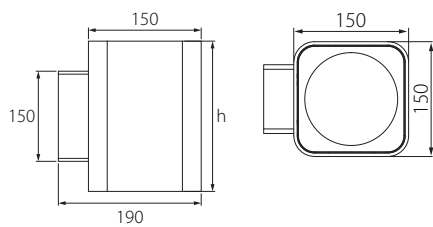
H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0.36	7124
1.0	0.72	1793
1.5	1.08	797
2.0	1.44	448
2.5	1.80	287
3.0	2.16	199

SSA100-SINGLE WW30 40D 8W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 				•	•	
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Electrostatic powder coated aluminum body
- Electrostatic powder coated aluminum injection cooler
- Tempered glass
- Stainless connectors

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Height (h) (mm)	Weight (kg)
SSA150-SINGLE	WW-NW-CW	220-240V AC	13	1.590	200	2,6
SSA150-DOUBLE	WW-NW-CW	220-240V AC	26	3.120	275	2,9
SSA150-DOUBLE	WW-NW-CW	220-240V AC	26	3.120	275	2,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K
● A: Amber	590nm

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

M: Medium Angle

W: Wide Angle

Lower and upper direction light angles can be selected separately.

## G Housing Color Options



RAL9005

RAL9007

RAL9016



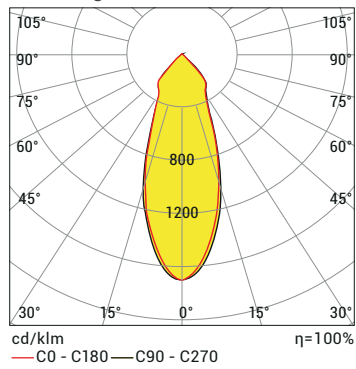
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	0.35	11862
1.0	0.69	2965
1.5	1.04	1318
2.0	1.39	741
2.5	1.73	474
3.0	2.08	329

SSA150-SINGLE WW30 40D 13W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 				•	•	
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





LL

DP

CD

WW

CG

CS

**CF**

AC

CB

HB

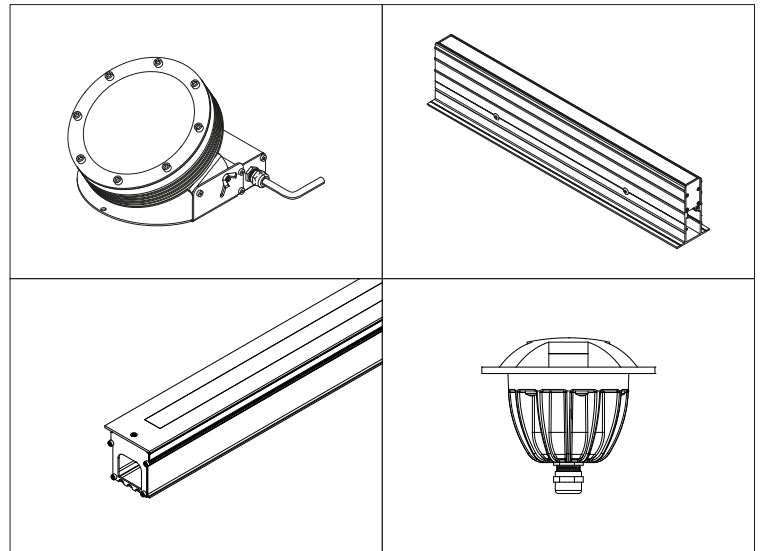
MM

RDMX

LC

FO

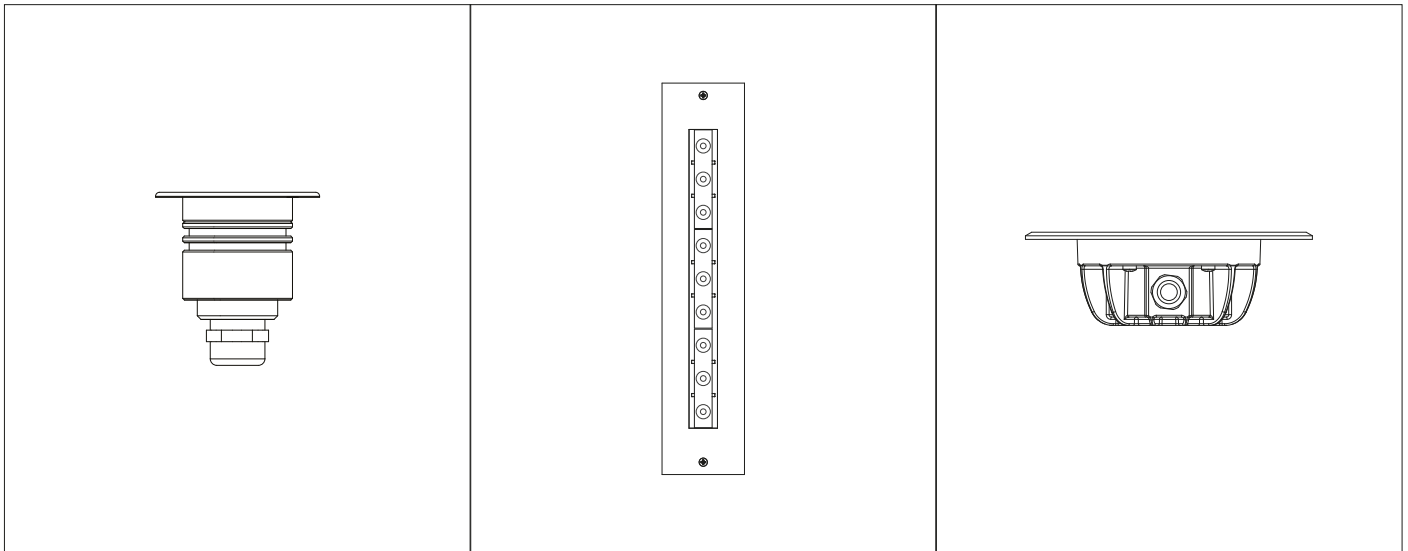
EL



## • **Croma Floor**

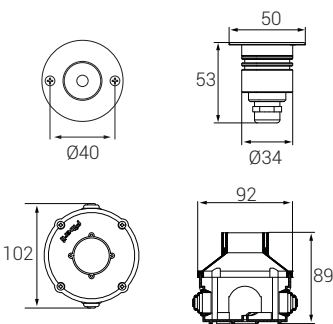
The CromaFloor provides ideal lighting solutions for both indoor and outdoor venues. These are LED luminaires which are recessed to the ground or mounted on the ground surface. They are particularly preferred for the illumination of parks, gardens and staircases. This luminaire does not harm the human skin with the low spot temperature, thus rendering the ground safe to walk around barefoot. Various light combinations can be achieved through its wide range of color options and color changing feature. Thus, the products provide architects and lighting designers the opportunity to bring their creative ideas to life.

# Floor Illumination



## CromaFloor - Floor Lighting





- 316 L chrome body and chrome flange
- Polycarbonate luminaire glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF500	WW-NW-CW	220-240V AC	2	155	0,5
CF500	WW-NW-CW	12-24V DC	2	155	0,5
CF500	WW-NW-CW	12-24V DC	3	310	0,5
CF500	RGB	7,5V DC	8	-	0,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

\*Different colors are optional

## O Lens Options



N: Narrow Angle W: Wide Angle XW: Without lens

## M Mounting Options

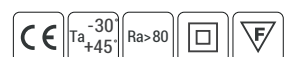


29: With Screw 30: Without Screw



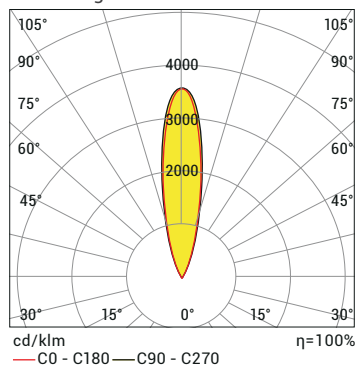
Order Code

P . W . C . O . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	1,24	60
1.5	1,04	87
2.0	0,83	136
1.5	0,62	241
1.0	0,41	543
0.5	0,21	2173

CF500 CW 25D 1.5W 220V AC IP67

## Mounting



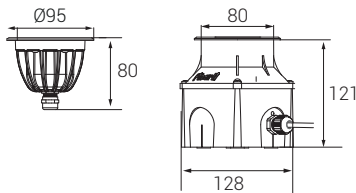
## Control System Options

Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\*Specific products only

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF500	5	PVM	2x	-	-
	7,5	PVM	-	4x	-
	12-24	ON/OFF	2x	-	-





- 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 8 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF103	WW-NW-CW	220-240V AC	4	480	1,3
CF103	WW-NW-CW	12-24V DC	4	425	1,1
CF103	RGB	7,5V DC	8	-	1,1

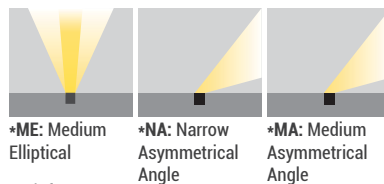
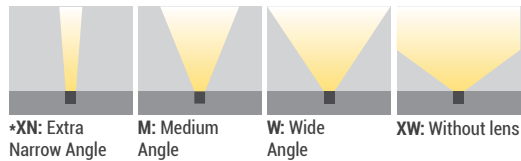
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

\*Different colors are optional

## O Lens Options



\*Only for 220V AC

## U Upper Piece Options



23: Square Satin Nickel

21: Round Satin Nickel



Order Code

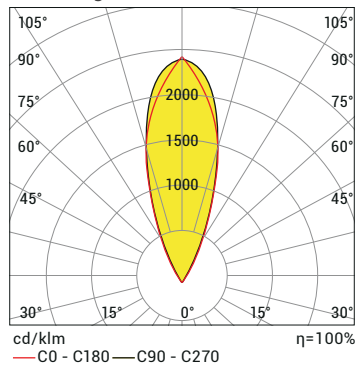
P . W . C . O . U





## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	Emax (lx)
3.0	1,88	133
1.5	1,57	192
2.0	1,25	300
1.5	0,94	532
1.0	0,63	1198
0.5	0,31	4792

CF1 P3 CW 25D 4.5 W 220V AC IP67

## Control System Options

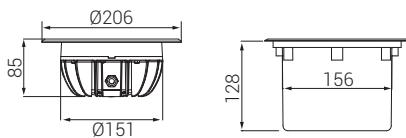
Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF103	7,5	PVM	-	4x	-
	12	PVM	2x	-	-
	12-24	ON/OFF	2x	-	-



Kahverengi Cafe, Antalya



- 5 mm 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 12 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF309	WW-NW-CW	220-240V AC	8	650	2,8
CF309	WW-NW-CW	220-240V AC	10	1.000	2,8
CF309	RGB	12V DC	13	-	2,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
	● A: Amber 590nm

\*Different colors are optional

## O Lens Options



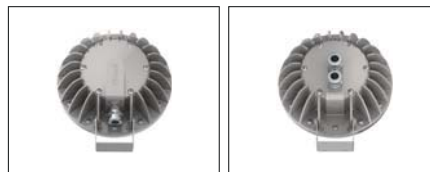
\*XN: Extra Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without lens



\*ME: Medium Elliptical    \*NA: Narrow Asymmetrical Angle    \*MA: Medium Asymmetrical Angle

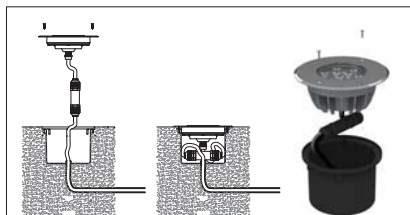
\*Only for 220V AC

## K Cable Direction Options



09: Single entry underneath the housing    10: Entry and exit on the cover\*  
\*Only 24V DC

## Mounting



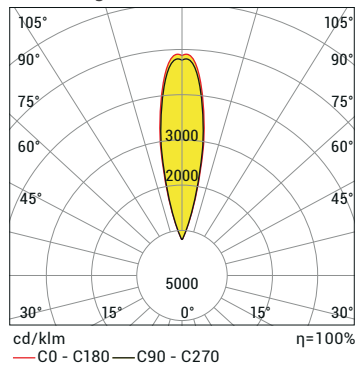
Order Code

P . W . C . O . K



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	Emax (lx)
3.0	1,30	301
1.5	1,08	433
2.0	0,86	677
1.5	0,65	1204
1.0	0,43	2709
0.5	0,22	10836

CF3 P6 CW 25D 8W 220V AC IP67



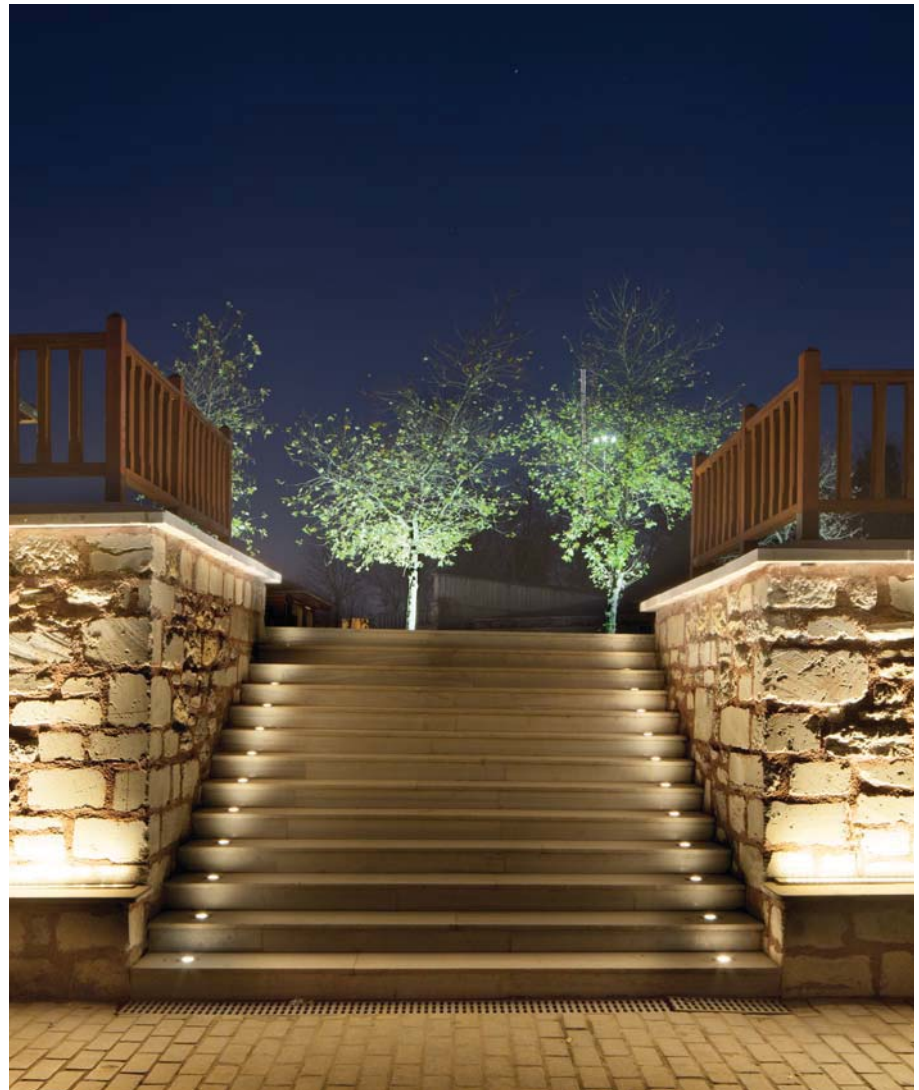
Mardan Palace Hotel, Antalya

## Control System Options

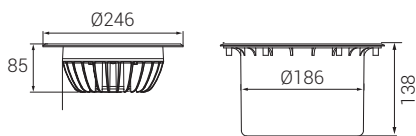
Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF309	12	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-



Merkez Efendi Complex, İstanbul



- 5 mm 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 12 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF518	WW-NW-CW	220-240V AC	21	650	3,8
CF518	RGB	24V DC	25	650	3,5
CF518	RGBA/W	24V DC	26	-	3,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

\*Different colors are optional.

## O Lens Options



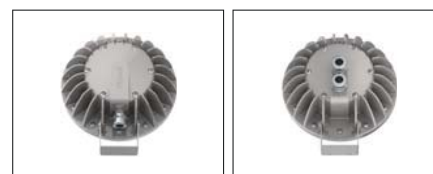
\*XN: Extra Narrow Angle    \*M: Medium Angle    \*W: Wide Angle    \*XW: Without lens



\*ME: Medium Elliptical    \*NA: Narrow Asymmetrical Angle    \*MA: Medium Asymmetrical Angle

\*Only for 220V AC

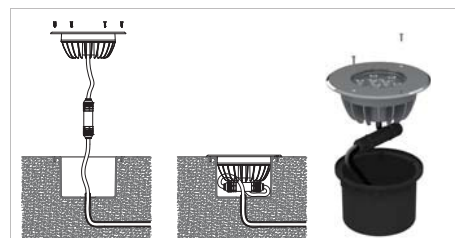
## K Cable Direction Options



09: Single entry underneath the housing

10: Entry and exit on the cover\*  
\*Only 24V DC

## Mounting



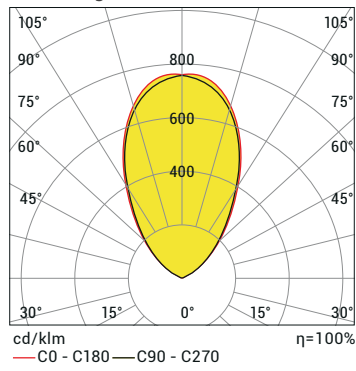
Order Code

P . W . C . O . K



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	3,85	137
1.5	3,21	197
2.0	2,57	308
1.5	1,93	548
1.0	1,28	1232
0.5	0,64	4929

CF5 P18 CW 60D 20W 220V AC IP67

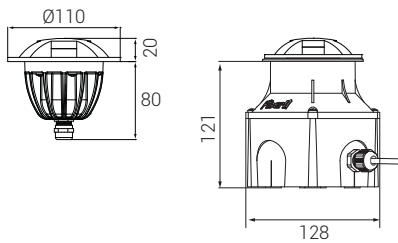
## Control System Options

Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF518	24	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	-	-





- Corrosion protection by double layered electrostatic powder coated body
- Aluminum injection body
- Plastic injection blind casing
- Underwater cable joint
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF1Y03	WW-NW-CW	220-240V AC	4	430	1,1
CF1Y03	RGB	7,5V DC	8	-	0,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional.

## E Additional Piece Options



01: Single sided

02: Double sided

04: Four sided

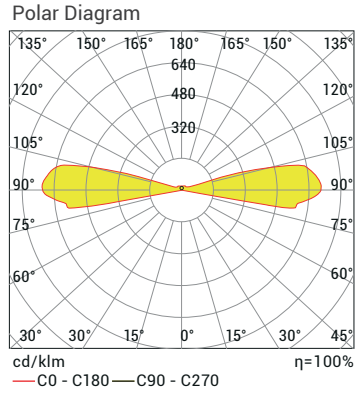


Order Code

P . W . C . E

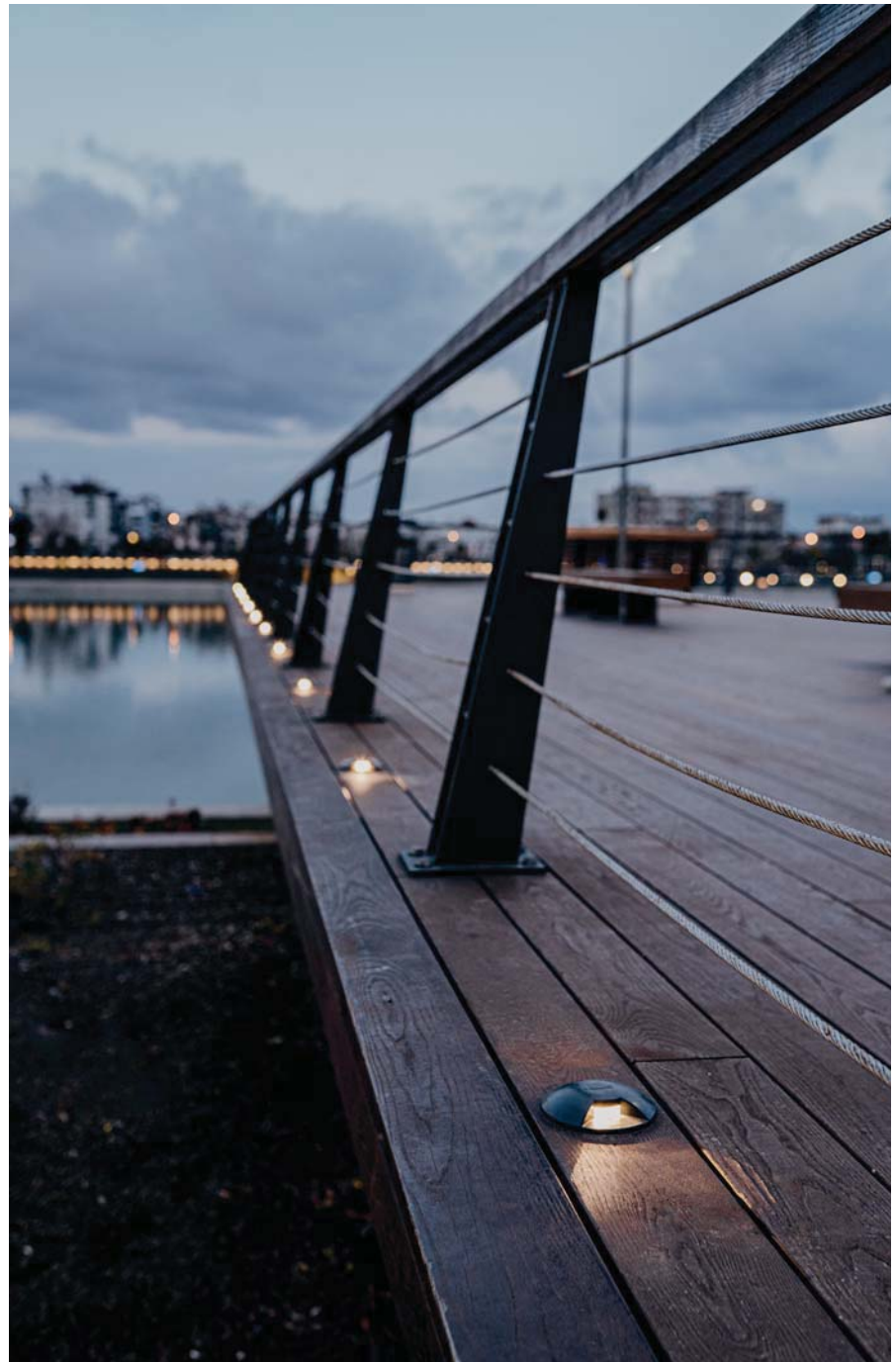


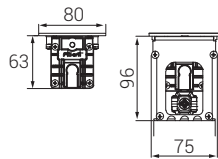
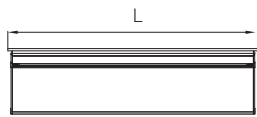
## Product Diagrams



## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•					
R,G,B,A		•					
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							





- Min 20 micron anodized aluminum extruded housing
- Anodized aluminum extruded mounting box
- 316 L satin chrome outer frame
- 6mm tempered luminaire glass
- UV protected PVC end caps
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
CFL033	WW-NW-CW	220-240V AC	4	500	170	1,0
CFL066	WW-NW-CW	220-240V AC	8	1000	285	1,8
CFL109	WW-NW-CW	220-240V AC	10	1.300	380	2,5
CFL218	WW-NW-CW	220-240V AC	20	2605	670	4,0
CFL327	WW-NW-CW	220-240V AC	30	3700	960	5,1
CFL436	WW-NW-CW	220-240V AC	40	5030	1250	7,3
CFL109	RGB	12V DC	12	-	380	2,2
CFL218	RGB	24V DC	25	-	670	3,7
CFL327	RGB	12V DC	40	-	960	4,8
CFL436	RGB	24V DC	50	-	1250	7,0

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

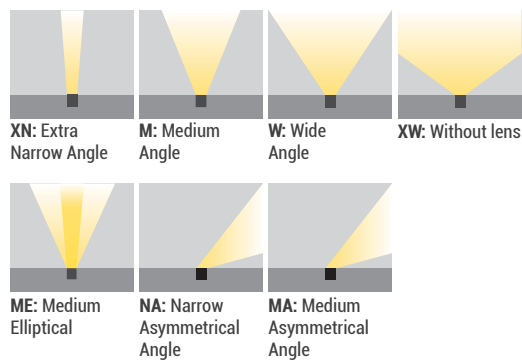
## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

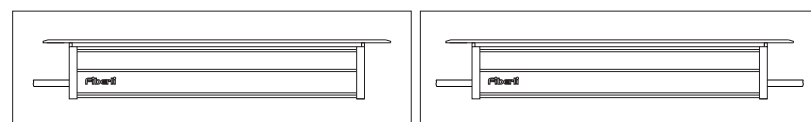
## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



## K Cable Direction Options



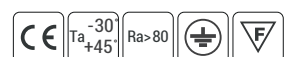
01: Single entry

03: Dual entry and exit



Order Code

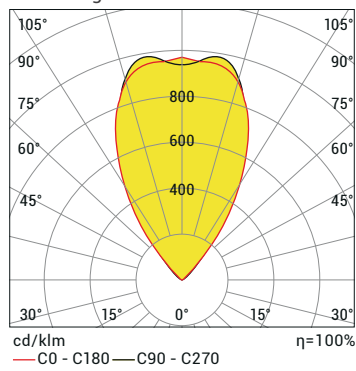
P . W . C . S . O . K





## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
3.0	3,59	102
1.5	2,99	147
2.0	2,39	230
1.5	1,8	408
1.0	1,20	919
0.5	0,60	3674

CFL12 CW 60D 12W 220V AC 50HZ IP67



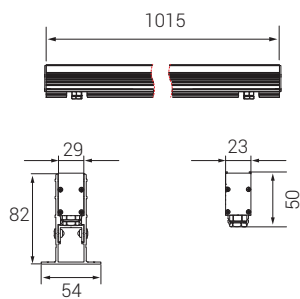
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•	•	•	•	
R,G,B,A	•	•	•	•	•	
RGB	•					
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CFL033	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
CFL066	7,5	PWM	-	4x	-
	12	PWM	2x	4x	-
CFL109	12-24	-	3x	5x	-
	15-24	INV-PWM	3x	5x	6x
CFL112	15-24	ON/OFF	2x	-	-
	24	PWM	2x	4x	-
CFL218	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
CFL224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
CFL327	12	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
CFL336	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
CFL436	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
CFL448	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-



Sanko Park, Gaziantep



- 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with white polymer coating
- Operates with 24V DC
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

## P W Product & Power Options

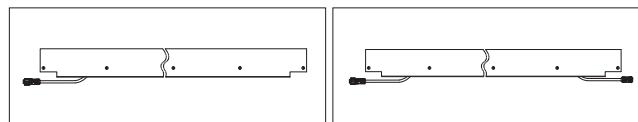
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU23-M100	WW-NW-CW	24V DC	18	450	2,6
CFU23-M100	WW-NW-CW	24V DC	4,8	120	2,6
CFU23-M100	WW-NW-CW	24V DC	14,4	360	2,6
CFU23-M100	WW-NW-CW	24V DC	7,2	180	2,6
CFU23-M100	WW-NW-CW	24V DC	14,4	360	2,6
CFU23-M100	RGB	24V DC	10,8	-	2,6
CFU23-M100	RGB	24V DC	14,4	-	2,6
CFU23-M100	RGB DMX	24V DC	8,4	5pixel/m	2,6
CFU23-M100	RGB DMX	24V DC	12,6	7pixel/m	2,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

## K Cable Direction Options



01: Single side inlet

02: Inlet and outlet on both sides



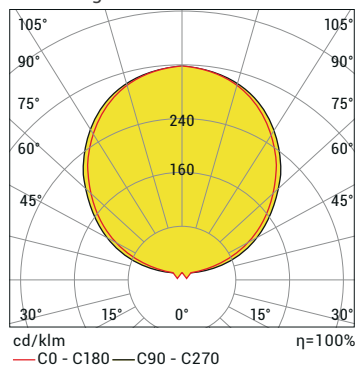
Order Code

P . W . C . K



## Product Diagrams

Polar Diagram









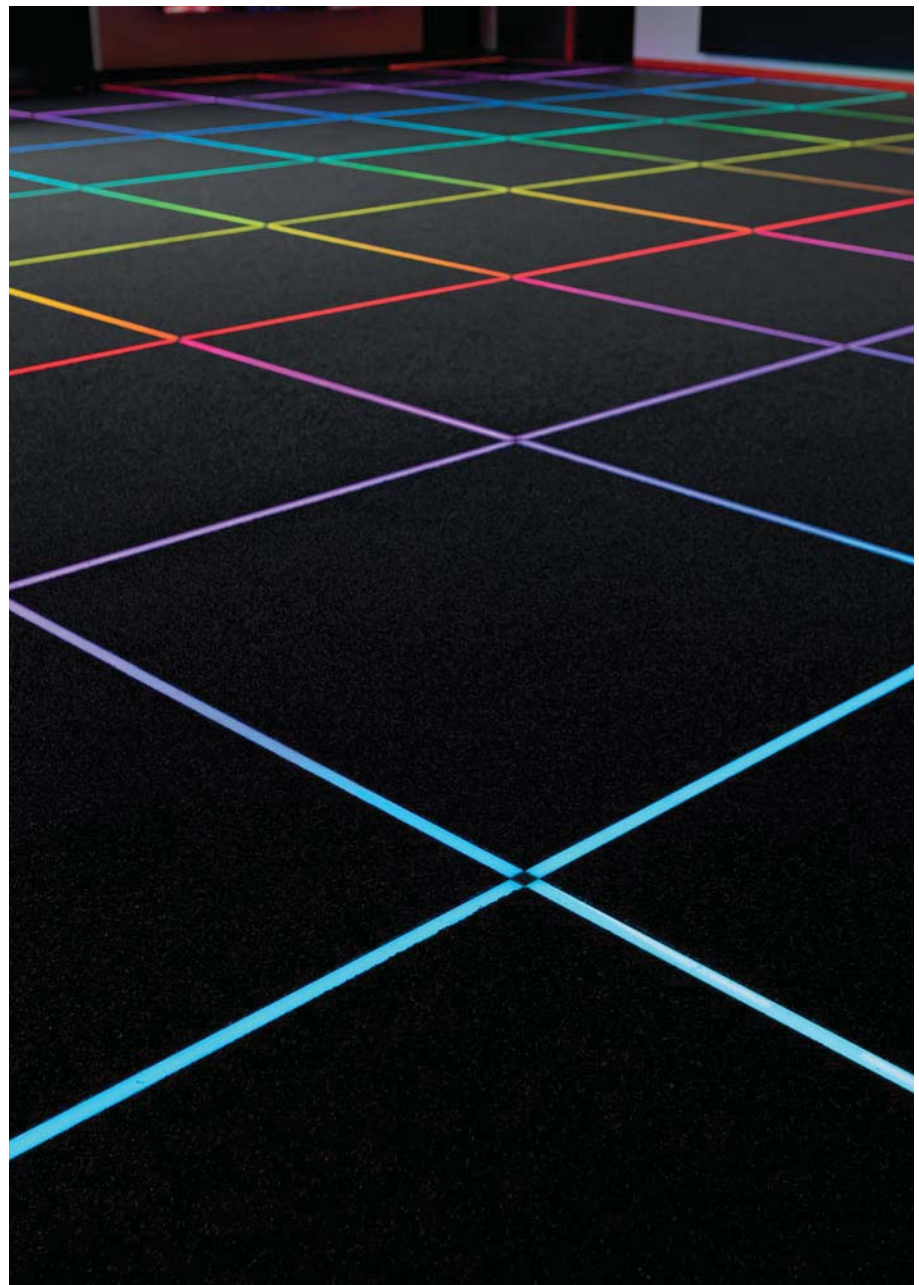
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
3.0	9,91	21
1.5	8,26	31
2.0	6,60	48
1.5	4,95	85
1.0	3,30	192
0.5	1,65	767

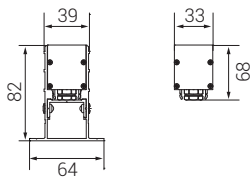
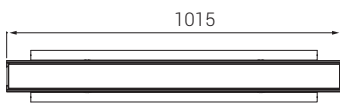
CFU 23 60LED CW 120D 24W 24V DC IP67

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 	•					
RGB DMX 			•			
WHITE DMX 			•			



Fiberli Factory, Antalya



- At least 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with white polymer coating
- Operates with 24V DC
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

## P W Product & Power Options

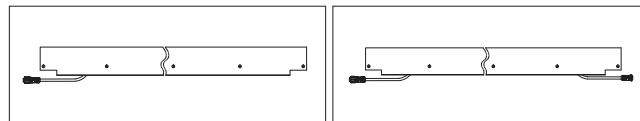
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU33-M100	WW-NW-CW	24V DC	18	540	3,7
CFU33-M100	WW-NW-CW	24V DC	4,8	150	3,7
CFU33-M100	WW-NW-CW	24V DC	14,4	450	3,7
CFU33-M100	WW-NW-CW	24V DC	7,2	220	3,7
CFU33-M100	WW-NW-CW	24V DC	14,4	450	3,7
CFU33-M100	RGB	24V DC	10,8	-	3,7
CFU33-M100	RGB	24V DC	14,4	-	3,7
CFU33-M100	RGB DMX	24V DC	8,4	5pixel/m	3,7
CFU33-M100	RGB DMX	24V DC	12,6	7pixel/m	3,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

## K Cable Direction Options



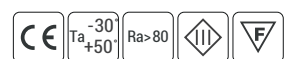
01: Single side inlet

02: Inlet and outlet on both sides



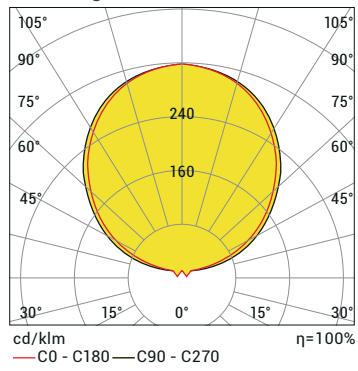
Order Code

P . W . C . K



## Product Diagrams

Polar Diagram



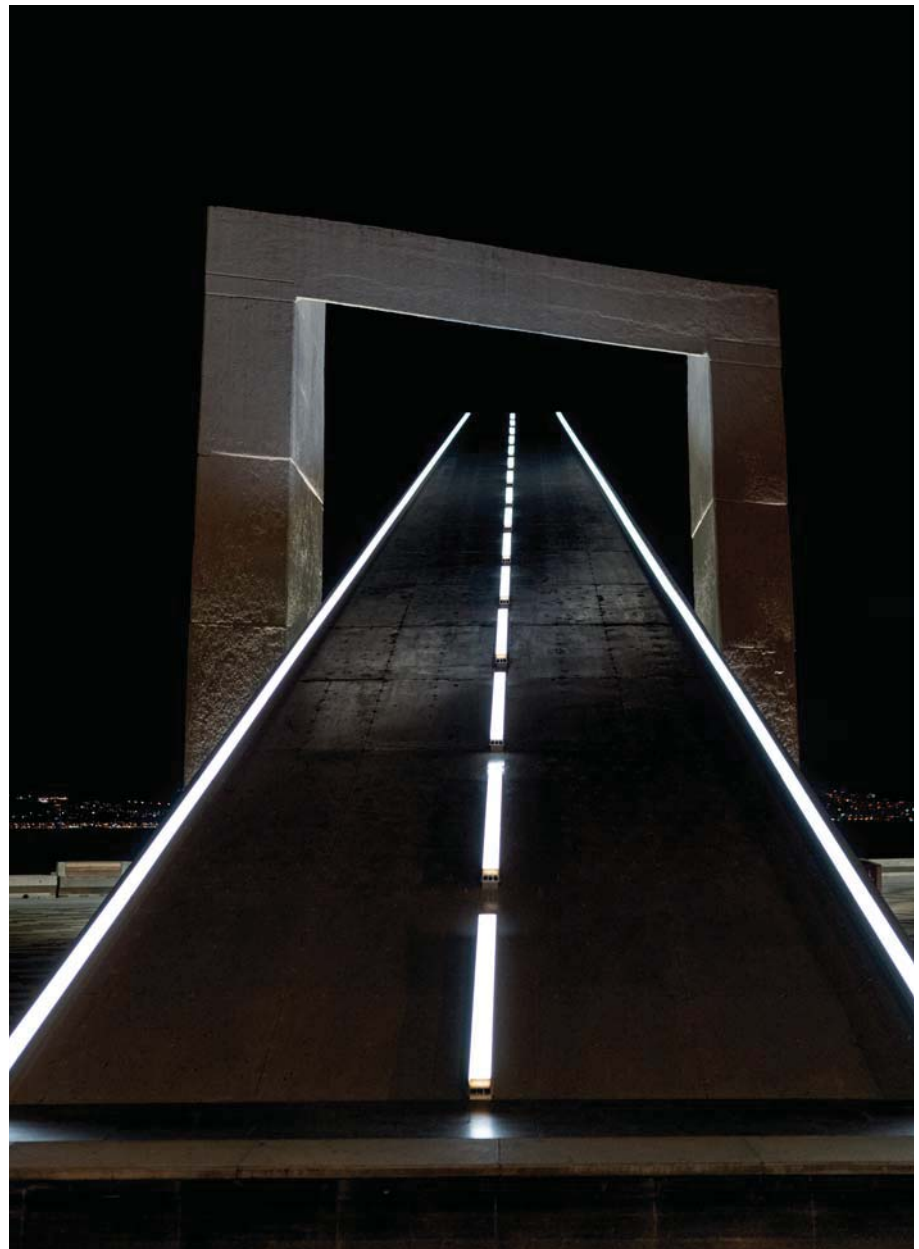
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
3.0	9,91	19
1.5	8,26	28
2.0	6,60	43
1.5	4,95	77
1.0	3,30	173
0.5	1,65	690

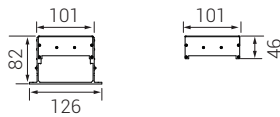
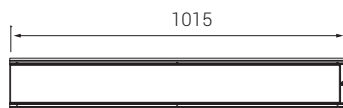
CFU 33 45LED CW 120D 18W 24V DC IP67

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Uçanyol, İzmir



- At least 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with a 30mm opaque white polycarbonate
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

## P W Product & Power Options

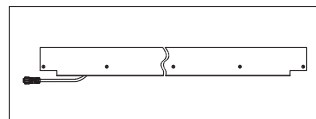
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU100-M100	WW-NW-CW	220-240V AC	14	1.100	7,5
CFU100-M100	WW-NW-CW	24V DC	14	1.100	7,5
CFU100-M100	RGB	24V DC	24	-	7,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

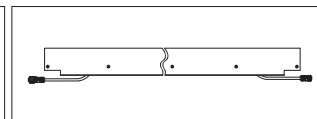
## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## K Cable Direction Options



01: Single side inlet

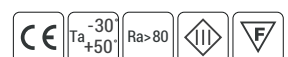


02: Inlet and outlet on both sides



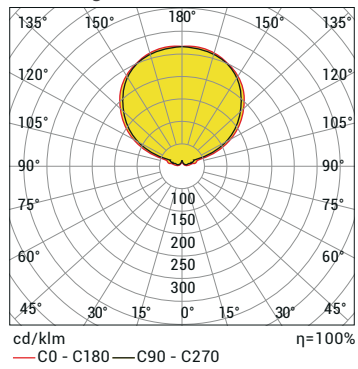
Order Code

P . W . C . K



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	12.30	24
1.5	10.25	34
2.0	8.20	53
1.5	6.15	94
1.0	4.10	212
0.5	2.05	847

CFU100 90LED NW 21,5W 220V DC IP67

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

\*Only for 24V DC



Iran Mall, Iran



LL

DP

CD

WW

CG

CS

CF

**AC**

CB

HB

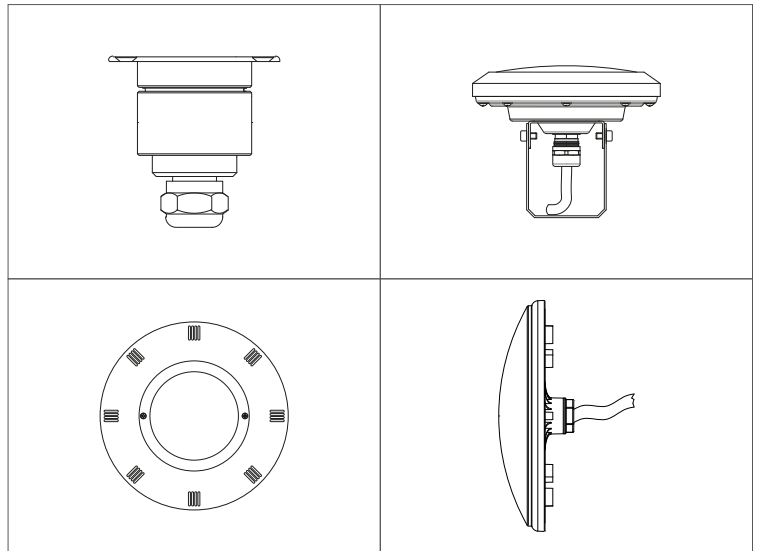
MM

RDMX

LC

FO

EL

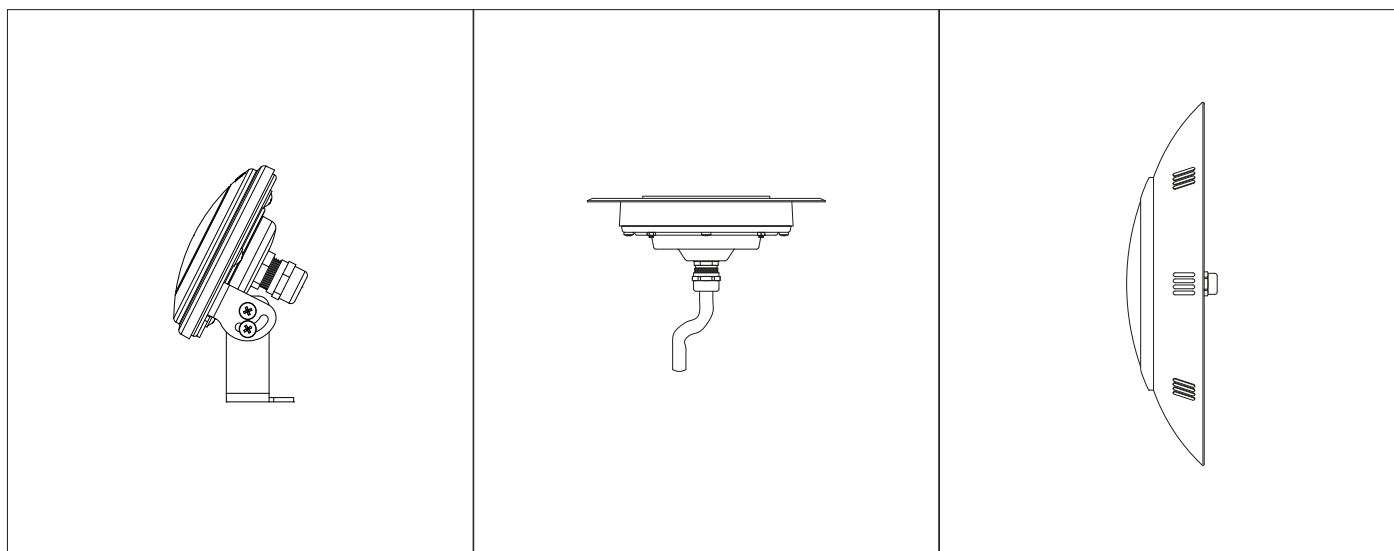


## Aqua Cromia

The Aqua Cromia series has been designed to be utilized under water or in regions close to water. The Aqua Cromia Series generates a more luminous flux with lesser energy. It provides high quality solutions and efficiency with its powerful technical structure.

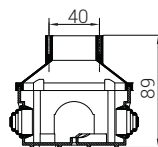
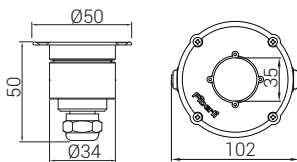


# Pool Lighting



## AquaCroma - Pool Lighting





- 316 L chrome body and chrome spot frame
- Polycarbonate luminaire glass
- Plastic injection mounting box
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC500F	WW-NW-CW	12-24V DC	2	150	0,25
AC500F	WW-NW-CW	12-24V DC	3	310	0,25
AC500F	RGB	7,5V DC	8	-	0,25

\*\*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

## O Lens Options



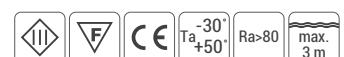
XN: Extra Narrow Angle    N: Narrow Angle    W: Wide Angle

## Mounting



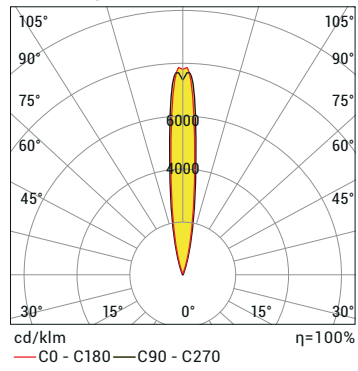
Order Code

P . W . C . S . O



## Product Diagrams

Polar Diagram



Conical Diagram

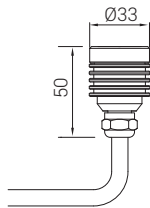
H (mt)	∅ (m)	E <sub>max</sub> (lx)
3.0	0,68	262
2.5	0,57	378
2.0	0,46	590
1.5	0,34	1049
1.0	0,23	2360
0.5	0,11	9439

AC500F CW 10D 3W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC500F	5	PWM	2x	-	-
	7,5	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-



- 316 L chrome body and chrome spot frame
- Polycarbonate luminaire glass
- Plastic injection mounting box
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC500N	WW-NW-CW	12-24V DC	2	150	0,25
AC500N	WW-NW-CW	12-24V DC	3	310	0,25
AC500N	RGB	7,5V DC	8	-	0,25

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

## O Lens Options

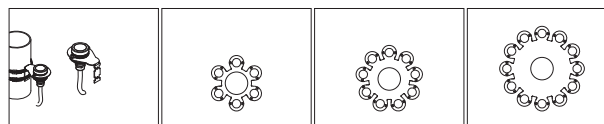


XN: Extra Narrow Angle

N: Narrow Angle

W: Wide Angle

## M Mounting Options



16: 1 pole connection

17: 6 pole connection

18: 9 pole connection

19: 12 pole connection



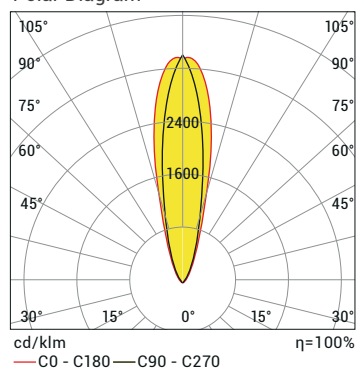
Order Code

P . W . C . S . O . M



## Product Diagrams

Polar Diagram



Conical Diagram

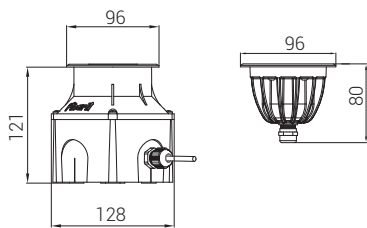
H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
3.0	1,08	116
2.5	0,90	167
2.0	0,72	262
1.5	0,54	465
1.0	0,36	1047
0.5	0,18	4186

AC500N CW 25D 3W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC500N	5	PWM	2x	-	-
	7,5	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-



- 316L chrome spot frame
- Corrosion protection by double layered electrostatic powder coated body
- 8 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1F03	WW-NW-CW	12-24V DC	4	410	0,5
AC1F03	WW-NW-CW	12-24V DC	8	820	0,5
AC1F03	RGB	7,5V DC	8	-	0,5

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

## O Lens Options



N: Narrow Angle      XW: Without lens

## Mounting



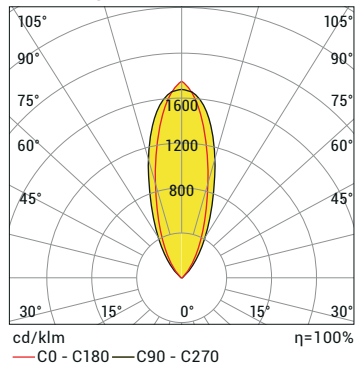
Order Code

P . W . C . S . O



## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	$\emptyset$ (m)	Emax (lx)
3.0	1,69	160
2.5	1,41	230
2.0	1,12	359
1.5	0,84	638
1.0	0,56	1436
0.5	0,28	5744

AC1F 3LED CW 8W 12-24V DC IP68

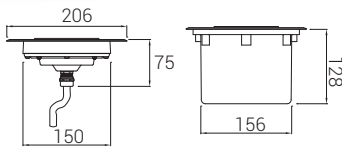
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1F03	7,5	PWM	2x	-	-
	12	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-



Royal Taj Mahal Hotel, Antalya



- 3mm 316 L chrome spot frame
- Corrosion protection by double layered electrostatic powder coated body
- 316 L Press forming chrome body
- 12 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC3F09	WW-NW-CW	12-24V DC	25	2.400	1,9
AC3F09	WW-NW-CW	12V DC	13	1.200	1,9
AC3F09	RGB	12V DC	18	-	1,9

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

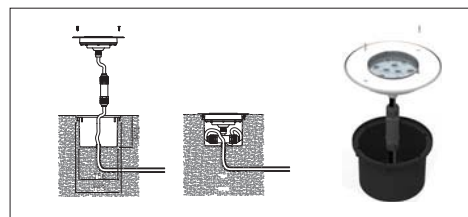
- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    XW: Without lens

## Mounting



Order Code

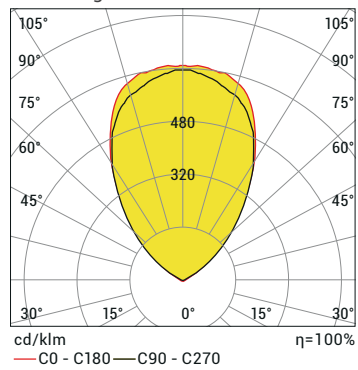
P . W . C . S . O





## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	4,49	169
2.5	3,74	243
2.0	2,99	380
1.5	2,24	675
1.0	1,50	1520
0.5	0,75	6079

AC3F 9LED CW 60D 25W 12-24V DC IP68

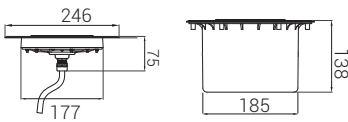
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC3N09	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



Maxx Royal Hotel, Antalya



- 3mm 316 L chrome spot frame
- 316 L Press forming chrome body
- 12 mm tempered glass
- 316 L Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5F18	WW-NW-CW	12-24V DC	21	2.100	2,5
AC5F18	WW-NW-CW	12-24V DC	32	3.200	2,5
AC5F18	WW-NW-CW	12-24V DC	46	4.800	2,5
AC5F18 *	RGB	24V DC	36	-	2,5
AC5F18 *	RGB	24V DC	26	-	2,5

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color. \*RGB products can be produced in 12-24 V DC and product values may vary

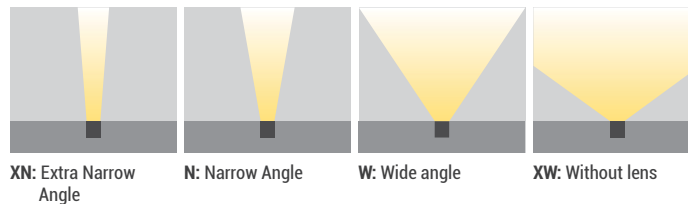
## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



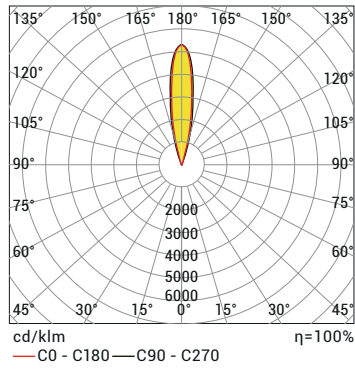
Order Code

P . W . C . S . O



## Product Diagrams

Polar Diagram









Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	1,05	1244
2.5	0,87	1792
2.0	0,70	2799
1.5	0,52	4977
1.0	0,35	11197
0.5	0,17	44790

AC5F 18LED CW 25D 20W 12-24V DC IP68

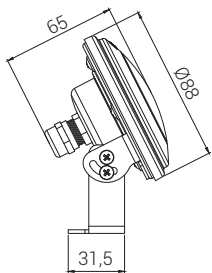
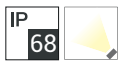
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•	•		•	•	
R,G,B,A 	•	•		•	•	
RGB 	•	•				
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5F18	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	2x	5x	-



AL Hamra Palace Hotel, Antalya



- Chrome coated or PC spot frame in white color
- Corrosion protection by double layered electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1N03	WW-NW-CW	12-24V DC	4	410	0,40
AC1N03	WW-NW-CW	12-24V DC	8	820	0,40
AC1N03	RGB	12-24V DC	4	-	0,40

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



N: Narrow Angle XW: Without lens

## U Upper Piece Options



15: Chrome coated spot frame 16: White plastic spot frame



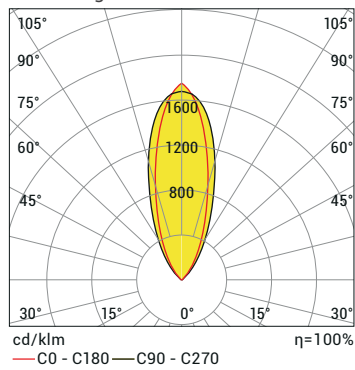
Order Code

P . W . C . S . O . U



## Product Diagrams

Polar Diagram









Conical Diagram

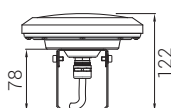
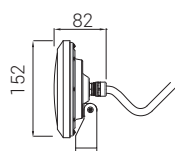
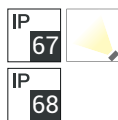
H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
3.0	1,69	160
2.5	1,41	230
2.0	1,12	359
1.5	0,84	638
1.0	0,56	1436
0.5	0,28	5744

AC1N 3LED CW 8W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1N03	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316L stainless steel body
- Corrosion protection by double layered electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight* (kg)
AC3N09	WW-NW-CW	12-24V DC	12	1.200	0,65-1,3
AC3N09	WW-NW-CW	12-24V DC	18	1.680	0,65-1,3
AC3N09	WW-NW-CW	12-24V DC	25	2.400	0,65-1,3
AC3N09	RGB	12V DC	13	-	0,65-1,3
AC3N09	RGB	12V DC	18	-	0,65-1,3

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.  
\* Product weight provided is based off of the chrome and aluminum options.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle

M: Medium Angle

W: Wide angle

XW: Without lens

## B Body Options



09: Aluminum body - IP67

10: Chrome Body - IP68

\*Application of aluminum and chrome bodies in water are different. Please read the user manual.

## K Cable Direction Options

Chrome Body



08: Single entry through center

Aluminum Body



09: Single bottom entry



10: Entry and exit through cover

\*Additional underwater cable joint has to be used in need of extra underwater cables.



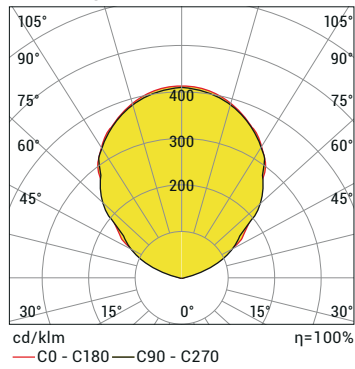
Order Code

P . W . C . S . O . B . K . U



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	6,64	17
2.5	5,53	164
2.0	4,43	256
1.5	3,32	455
1.0	2,21	1023
0.5	1,11	4093

AC3N 9LED CW 120D 25W 12-24V DC IP67

## U Upper Piece Options



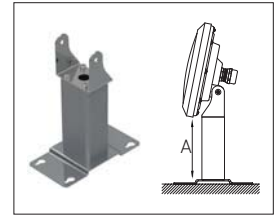
15: Chrome coated spot frame



16: Plastic spot frame in white

## Mounting Accessories

Stand extension pieces

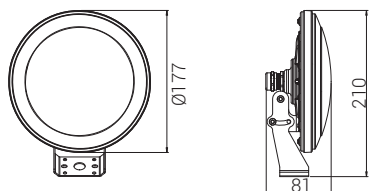
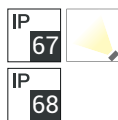


34: 5cm  
35: 10cm  
36: 20cm

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC3N09	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body or aluminum injection electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5N18	WW-NW-CW	12-24V DC	21	2.100	0,8-1,7
AC5N18	WW-NW-CW	12-24V DC	32	3.200	0,8-1,7
AC5N18	WW-NW-CW	12-24V DC	46	4.800	0,8-1,7
AC5N18*	RGB	24V DC	26	-	0,8-1,7
AC5N18*	RGB	24V DC	36	-	0,8-1,7

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour. Product weight provided is based off of chrome and aluminum options.  
\*RGB products can be produced in 12-24 V DC and product values may vary.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle    M: Medium Angle    W: Wide angle    XW: Without lens

## B Body Options



09: Aluminum Body - IP67    10: Chrome Body - IP68

\*Additional underwater cable joint has to be used in need of extra underwater cables.

## K Cable Direction Options



08: Single entry through center    09: Single bottom entry    10: Entry and exit through cover

\*Additional underwater cable joint has to be used in need of extra underwater cables.



Order Code

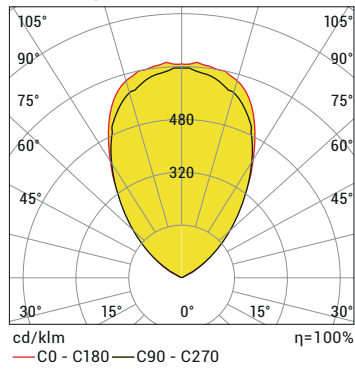
P . W . C . S . O . B . K . U





## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	4,62	148
2.5	3,85	213
2.0	3,08	332
1.5	2,31	591
1.0	1,54	1330
0.5	0,77	5319

AC5N 18LED CW 60D 20W 12-24V DC IP67

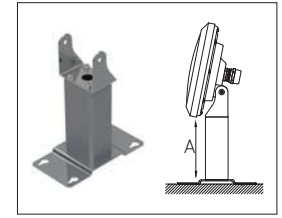
## U Upper Piece Options



15: Chrome coated spot frame 16: Plastic spot frame in white

## Mounting Options

Stand extension pieces



34: 5cm  
35: 10cm  
36: 20cm

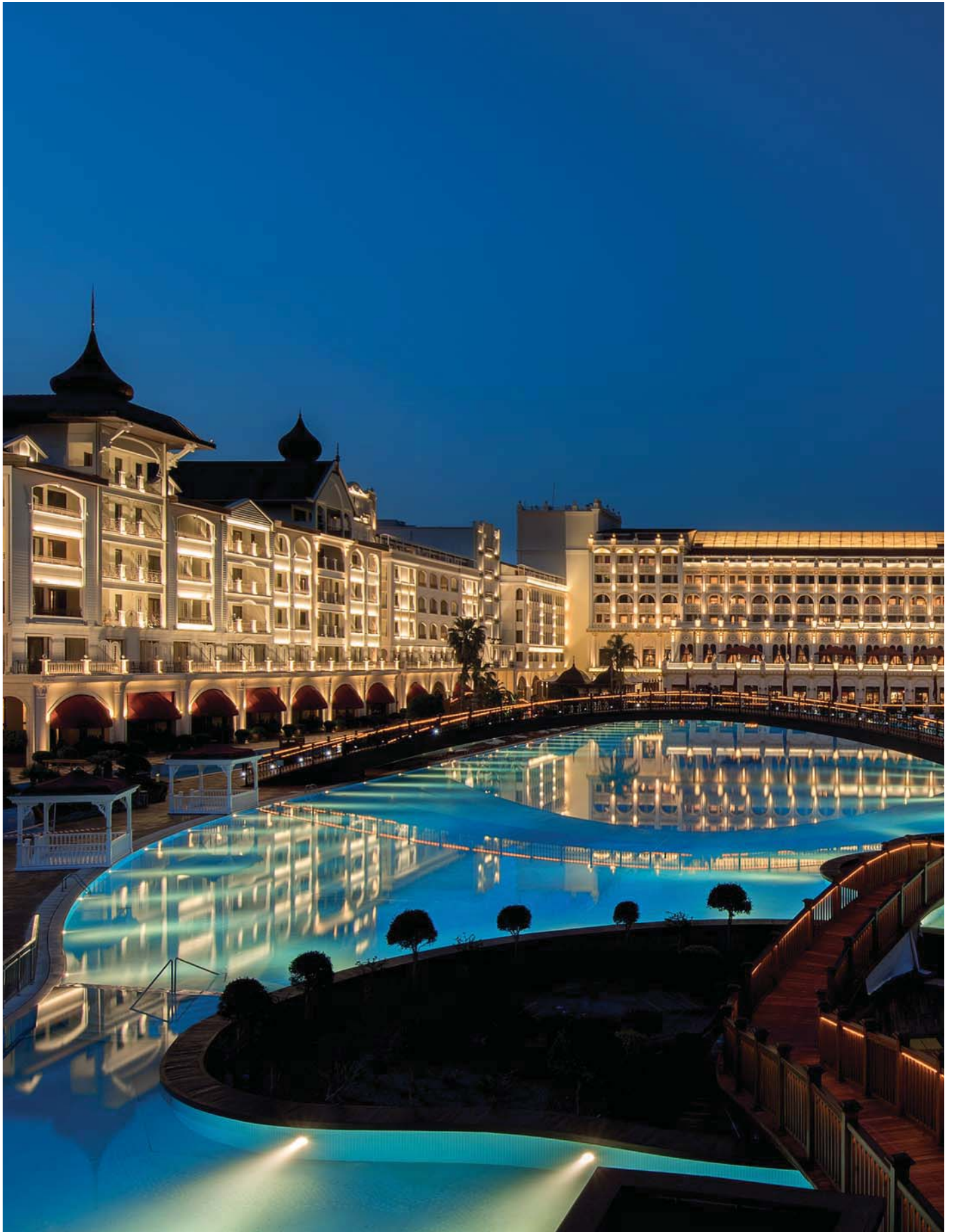
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5N18	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-

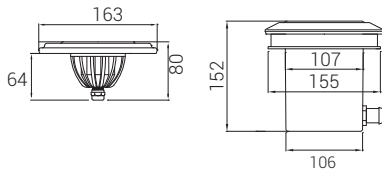
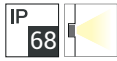


Ornamental Pool, İzmir



Mardan Palace Hotel, Antalya





- Corrosion protection by double layered electrostatic powder coated body
- 8 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1J03	WW-NW-CW	12-24V DC	4	410	1,1
AC1J03	WW-NW-CW	12-24V DC	8	820	1,1
AC1J03	RGB	7,5V DC	8	-	1,1

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

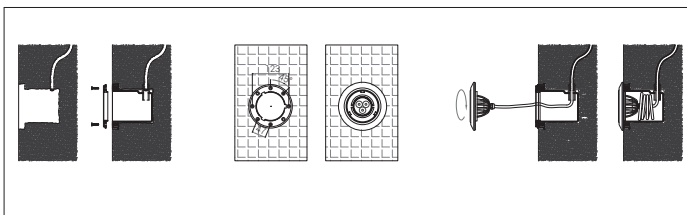
- 01 Standart (ON/OFF)
- 02 PWM-DIM

## O Lens Options



N: Narrow Angle      XW: Without lens

## Mounting



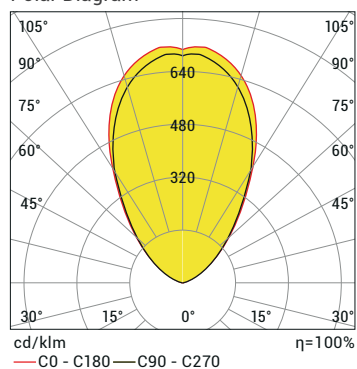
Order Code

P . W . C . S . O



## Product Diagrams

Polar Diagram









Conical Diagram

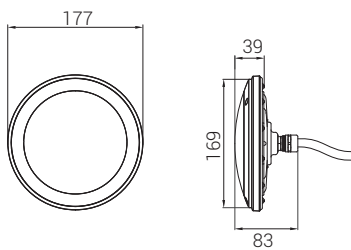
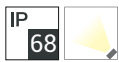
H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
3.0	4,02	63
2.5	3,35	91
2.0	2,68	141
1.5	2,01	251
1.0	1,34	566
0.5	0,67	2263

AC1J 3LED CW 8W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1J03	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5G18	WW-NW-CW	12-24V DC	21	2.100	1,2
AC5G18	WW-NW-CW	12-24V DC	32	3.200	1,2
AC5G18	WW-NW-CW	12-24V DC	46	4.800	1,2
AC5G18*	RGB	24V DC	26	-	1,2
AC5G18*	RGB	24V DC	36	-	1,2

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.  
\* RGB products can be produced in 12-24 V DC and product values may vary

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    XW: Without lens

## U Upper Piece Options



15: Chrome coated    16: White



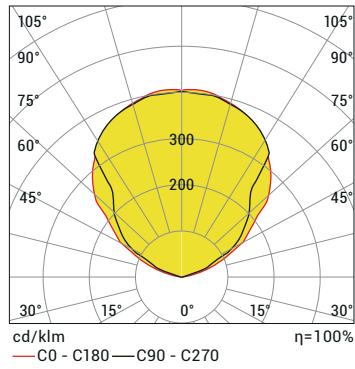
Order Code

P . W . C . S . O . U



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
3.0	7,52	97
2.5	6,26	140
2.0	5,01	218
1.5	3,76	388
1.0	2,51	873
0.5	1,25	3490

AC5G 18LED CW 120D 20W 12-24V DC IP68

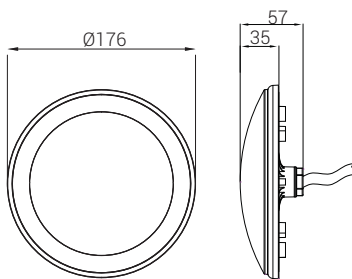
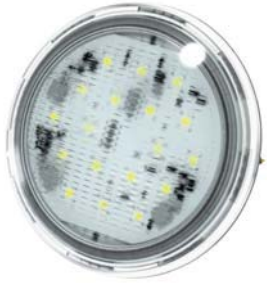
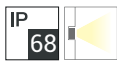
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5G18	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



Royal Seginus Hotel, Antalya



- Plastic injection PC body
  - Polycarbonate glass
  - Operates with alternate or direct current
  - Underwater connector
  - H07RNF rubber cable
  - Only PAR 56 lamp with LED is included.
- Mounting shell and pieces are not included

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5GE18	WW-NW-CW	24V DC	18	1.800	0,8
AC5GE36	WW-NW-CW	12-24V DC	18	1.800	0,8

Power and Lumen values provided are based off of a "cold white (CW) LED". It may vary according to the desired color.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM



Order Code

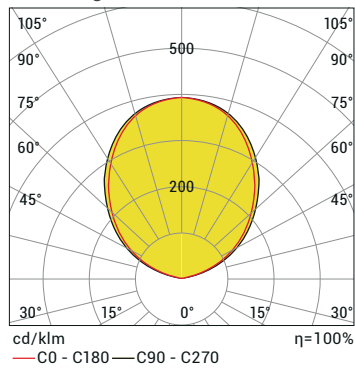
P . W . C . S





## Product Diagrams

Polar Diagram









Conical Diagram

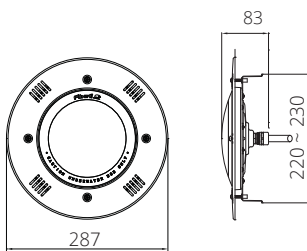
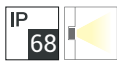
H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	6,95	80
2.5	5,79	116
2.0	4,63	180
1.5	3,48	321
1.0	2,32	722
0.5	1,16	2888

AC5GE 18LED CW 120D 18W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5GE	24	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-



- 316 L chrome spot body
- 316 L Stainless connectors
- Polycarbonate glass
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable
- Mounting shell and pieces are not included

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5K18	WW-NW-CW	12-24V DC	21	2100	1,4
AC5K18	WW-NW-CW	12-24V DC	32	3200	1,4
AC5K18	WW-NW-CW	12-24V DC	45	4800	1,4
AC5K18*	RGB	24V DC	26	-	1,4
AC5K18*	RGB	24V DC	36	-	1,4

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color. \*RGB products can be produced in 12-24 V DC and product values may vary.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    XW: Without lens



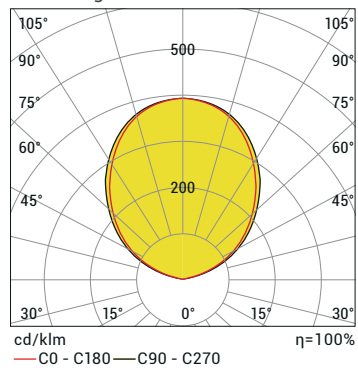
Order Code

P . W . C . S . O



## Product Diagrams

Polar Diagram









Conical Diagram

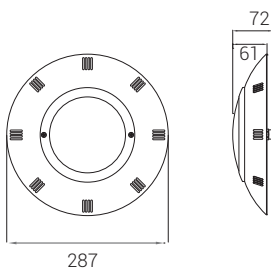
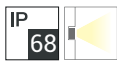
H (mt)	$\varnothing$ (m)	E <sub>max</sub> (lx)
3.0	1,88	1452
2.5	1,57	2090
2.0	1,25	3266
1.5	0,94	5806
1.0	0,53	13064
0.5	0,31	52254

AC5K 18LED CW 45W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•	•		•	•	
R,G,B,A 	•	•		•	•	
RGB 	•	•				
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5K09	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5Y18	WW-NW-CW	12-24V DC	21	2100	1,1
AC5Y18	WW-NW-CW	12-24V DC	32	3200	1,1
AC5Y18	WW-NW-CW	12-24V DC	46	4800	1,1
AC5Y18*	RGB	24V DC	26	-	1,1
AC5Y18*	RGB	24V DC	36	-	1,1

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.  
\* RGB products can be produced in 12-24 V DC and product values may vary.

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

## S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

## O Lens Options



XN: Extra Narrow Angle    N: Narrow Angle    M: Medium Angle    XW: Without lens

## B Body Options



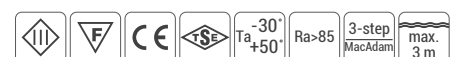
15: Chrome coated

16: White



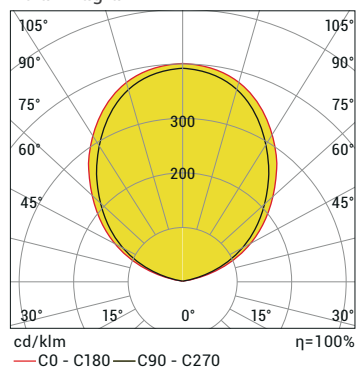
Order Code

P . W . C . S . O . B



## Product Diagrams

Polar Diagram









Conical Diagram

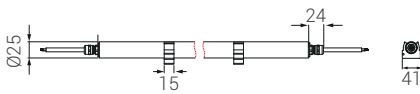
H (mt)	Ø (m)	E <sub>max</sub> (lx)
3.0	7,74	93
2.5	6,45	134
2.0	5,16	210
1.5	3,87	373
1.0	2,58	840
0.5	1,29	3359

AC5Y 18LED CW 120D 20W 12-24V DC IP68

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•	•		•	•	
R,G,B,A 	•	•		•	•	
RGB 	•	•				
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5Y09	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	IN-PWM	2x	5x	-



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum housing
- Rubber power cable
- Stainless connectors
- Insulated, PVC side cover
- UV protective transparent tube
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

## P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLUT30LED	WW-NW-CW	24V DC	2,4	245	0,455
LLUT30LED	WW-NW-CW	24V DC	4,8	485	0,455
LLUT45LED	WW-NW-CW	24V DC	7,2	615	0,455
LLUT45LED	WW-NW-CW	24V DC	10,8	1065	0,455
LLUT60LED	WW-NW-CW	24V DC	7,2	715	0,455
LLUT90LED	WW-NW-CW	24V DC	10,8	905	0,455
LLUT30LED	RGB	24V DC	7,2	-	0,455
LLUT45LED	RGB	24V DC	10,8	-	0,455
LLUT30LED-DMX	RGB - Pixel	24V DC	8,4	-	0,455
LLUT45LED-DMX	RGB - Pixel	24V DC	12,6	-	0,455

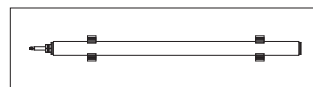
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

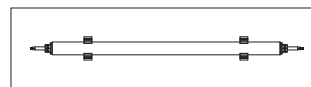
● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

\*Different colors are optional

## K Cable Direction Options



01: Left input



03: Input and output



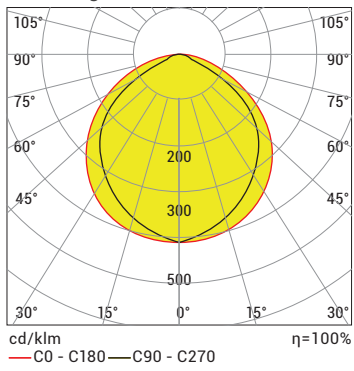
Order Code

P . W . C . K



Product Diagrams

Polar Diagram



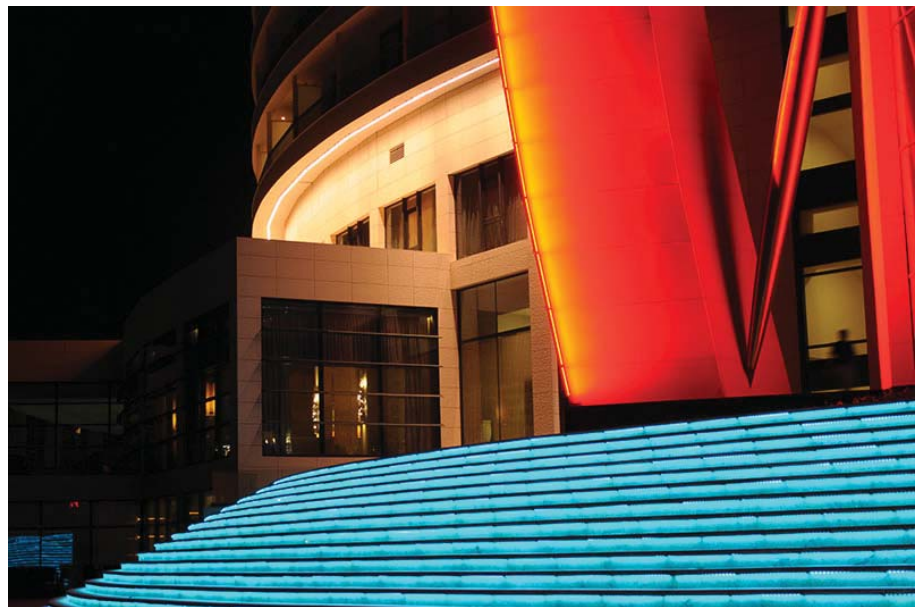
Conical Diagram

H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.95	1170
1.0	3.89	292
1.5	5.84	130
2.0	7.78	73
2.5	9.73	47
3.0	11.67	32

LLUT 45 LED CW 120D 10.8W 24V DCIP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Stair Lighting



Pool Lighting



LL

DP

CD

WW

CG

CS

CF

AC

**CB**

HB

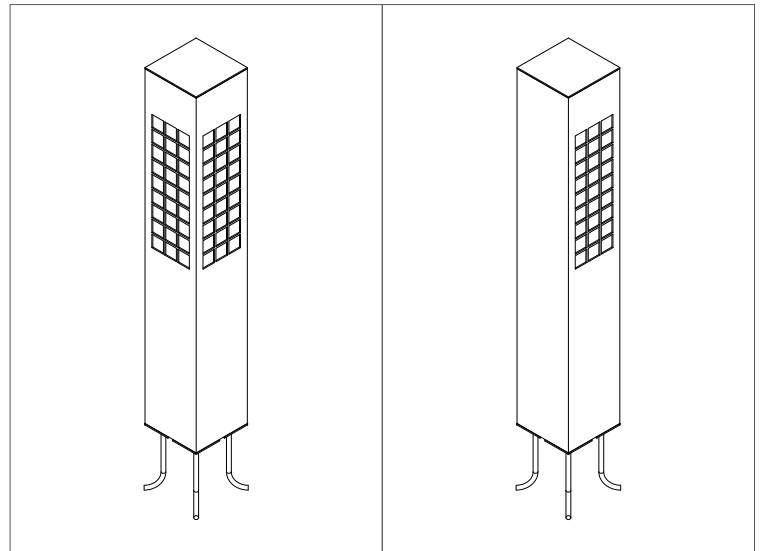
MM

RDMX

LC

FO

EL

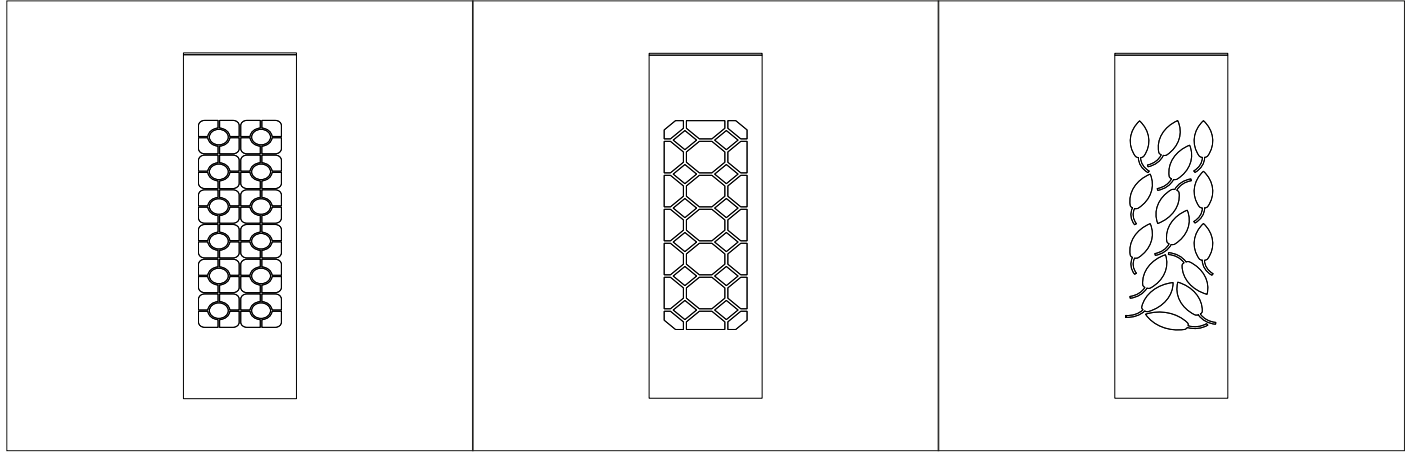


## • Croma Bollard

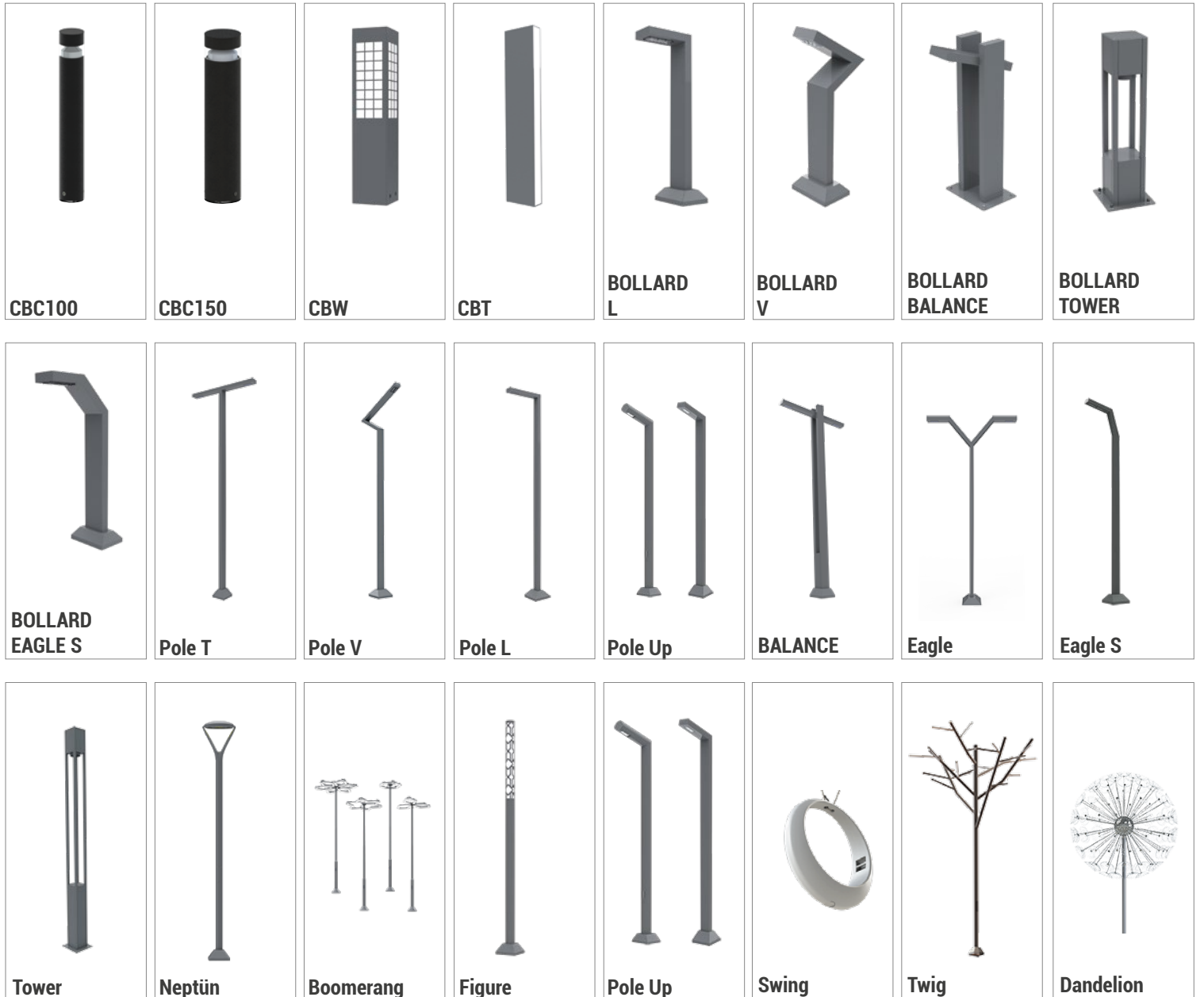
The Croma Bollard series is utilised in the illumination of public spaces such as parks, gardens and squares. These luminaires offer an aesthetical illumination of garden compositions. The luminaires can be produced in mono color or RGB as per order. Also, they provide the opportunity to render various luminous effects for landscape architects with a wide range of color options and the capability to change colors. They provide excellent solutions and are energy efficient without being affected by adverse weather conditions due to their powerful technical structure.

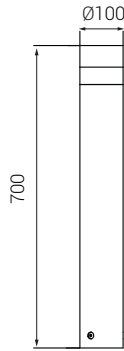


# Garden Illumination



## CromaBollard - Dekoratif Bahçe Aydınlatma Ürünleri





- Electrostatic powder coated aluminum extruded body
- Non-yellowing acrylic luminaire glass
- Anti-glare, high efficient, asymmetrical reflector
- Stainless fittings

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CBC100	WW-NW-CW	220-240V AC	12	700	2,6

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

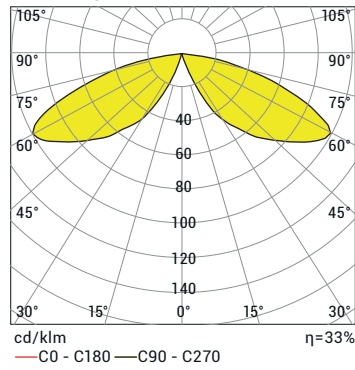
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

Polar Diagram



## Control System Options

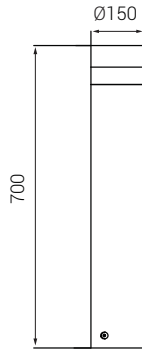
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Electrostatic powder coated aluminum extruded body
- Non-yellowing acrylic luminaire glass
- Anti-glare, high efficient, asymmetrical reflector
- Stainless fittings

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CBC150	WW-NW-CW	220-240V AC	30	1800	4,5

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

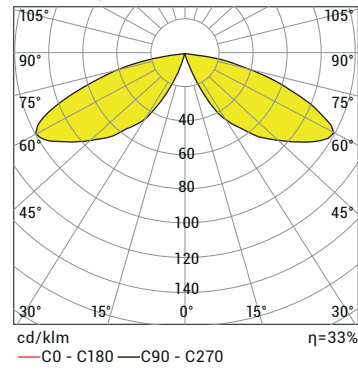
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

Polar Diagram



## Control System Options

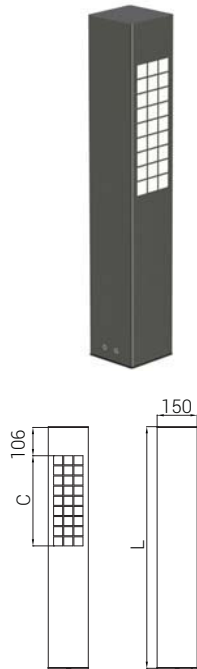
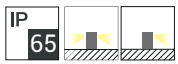
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Electrostatic powder coated steel body
- Plexiglas diffused luminaire glass
- Stainless connectors

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (CxL) (mm)	Weight (kg)
CBW 7	WW-NW-CW	220-240V AC	32	2.240	2900x7000	10,8
CBW 9	WW-NW-CW	220-240V AC	42	2.940	3900x9000	12,3
CBW 11	WW-NW-CW	220-240V AC	50	3.500	4900x1.1000	15,8

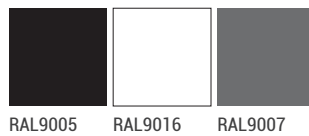
Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

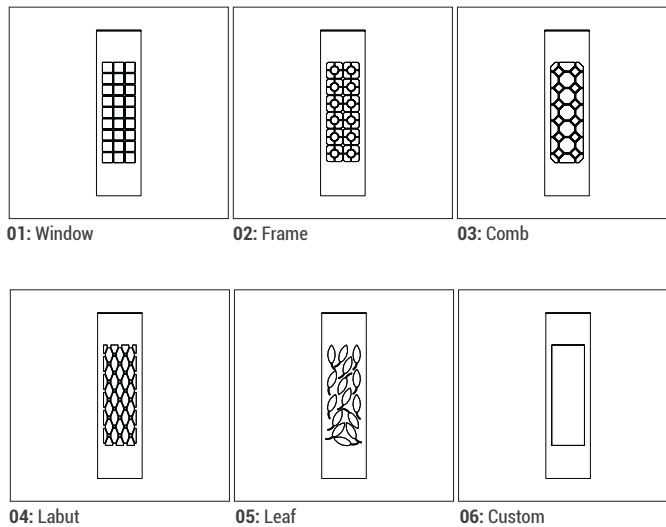
● WW: Warm White 3000K	● R: Red 625nm	● RGB *
● NW: Natural White 4000K	● G: Green 525nm	● RGBW *
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA *
● RGB	● A: Amber 590nm	

\*Only for 24V DC

## G Housing Color Options



## B Body Options

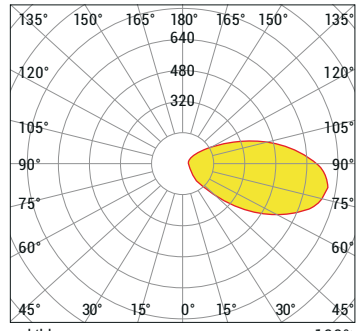


Order Code

P . W . C . G . B . E

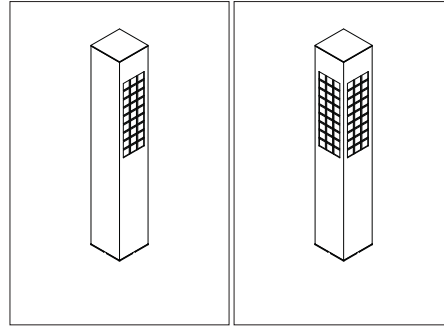


Polar Diagram



cd/klm  
 — C0 - C180 — C90 - C270  
 CBW 7 CW 32W 220V AC IP65

## E Additional Piece Options



02: Two Sided

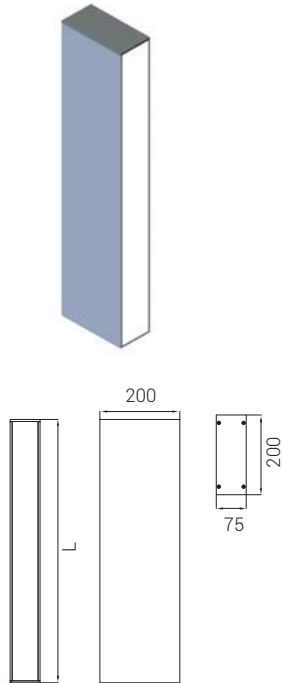
04: Four Sided

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•					
R,G,B,A	•					
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						



Vib Antalya Hotel, Antalya



- Electrostatic powder coated steel body
- Plexiglas diffused luminaire glass
- Stainless connectors

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimension (L)	Weight (kg)
CBT440	WW-NW-CW	220-240V AC	24	1.920	440	5,5
CBT660	WW-NW-CW	220-240V AC	32	2.560	660	8,0
CBT1340	WW-NW-CW	220-240V AC	70	5.600	1300	15,8

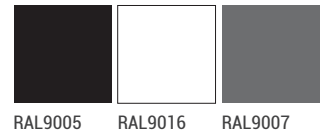
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

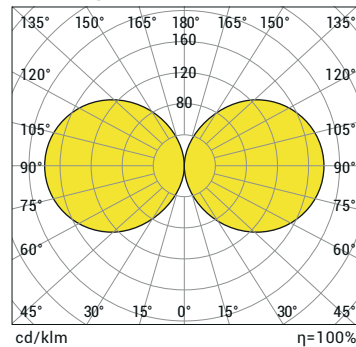
\*Different colours are optional

## G Housing Color Options



## Product Diagrams

Polar Diagram



CBT CW 7W 220V AC IP65

## Control System Options

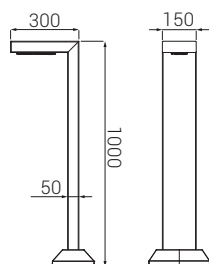
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

## P W Product & Power Options

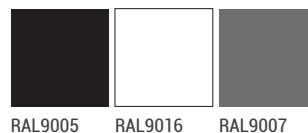
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-L	WW-NW-CW	220-240V AC	9	950	3,8
Bollard-L	WW-NW-CW	220-240V AC	18	1900	3,8

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

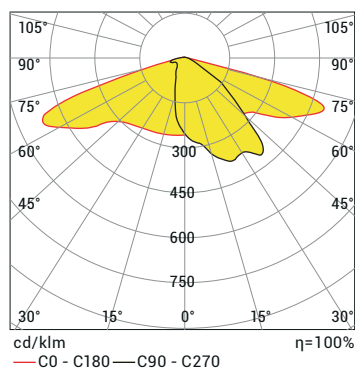
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

### Polar Diagram



BOLLARD-L NW 9W 220V AC IP66

## Accessories



Fuse

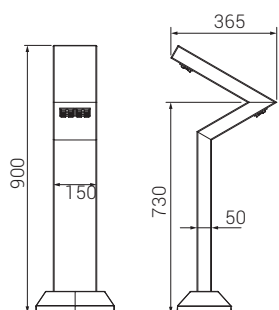
Surge protection device



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-V	WW-NW-CW	220-240V AC	9	950	3,8
Bollard-V	WW-NW-CW	220-240V AC	18	1900	3,8

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

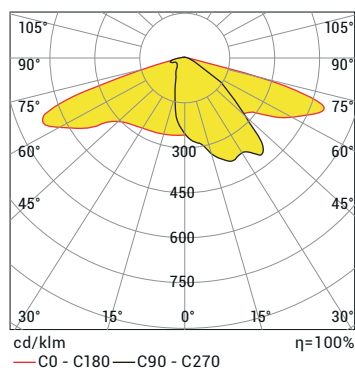
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

### Polar Diagram



BOLLARD-V NW 18W 220V AC IP66

## Accessories

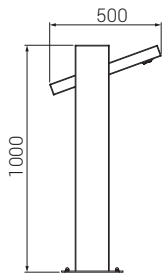
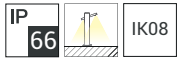


Order Code

P . W . C . G







- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets

## P W Product & Power Options

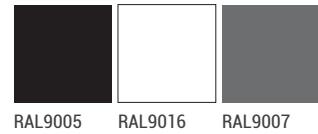
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Balance	WW-NW-CW	220-240V AC	9	950	4,0
Bollard-Balance	WW-NW-CW	220-240V AC	18	1900	4,0

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

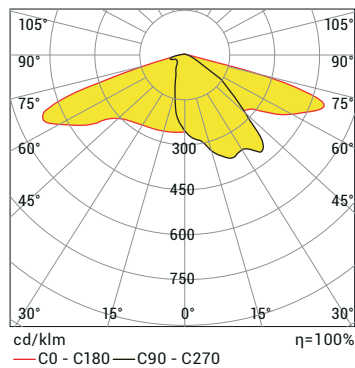
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

Polar Diagram



BALANCE-BOLLARD NW 18W 220V AC IP66

## Accessories



Fuse

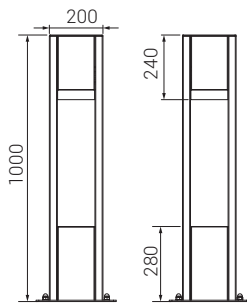
Surge protection device



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

## P W Product & Power Options

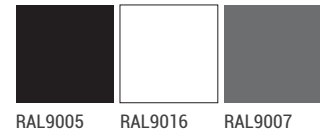
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Tower	WW-NW-CW	220-240V AC	9	850	4,3
Bollard-Tower	WW-NW-CW	220-240V AC	18	1700	4,3

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

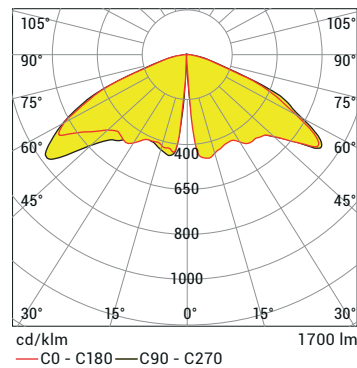
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

### Polar Diagram



TOWER-BOLLARD NW 18W 220V AC IP66

## Accessories



Fuse

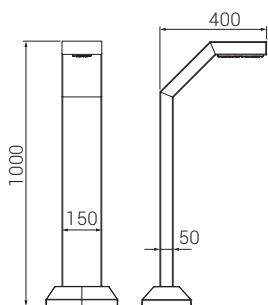
Surge protection device



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

## P W Product & Power Options

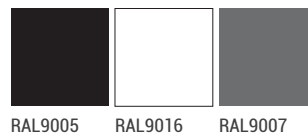
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Eagle S	WW-NW-CW	220-240V AC	9	950	3,9
Bollard-Eagle S	WW-NW-CW	220-240V AC	18	1900	3,9

Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

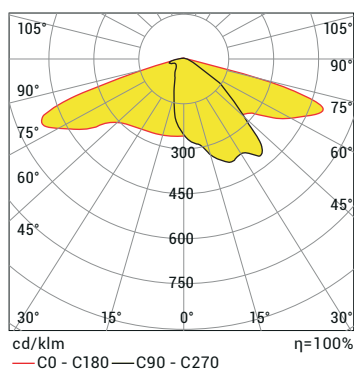
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## G Housing Color Options



## Product Diagrams

### Polar Diagram



EAGLE-BOLLARD NW 9W 220V AC IP66

## Accessories



Fuse

Surge protection device



Order Code

P . W . C . G

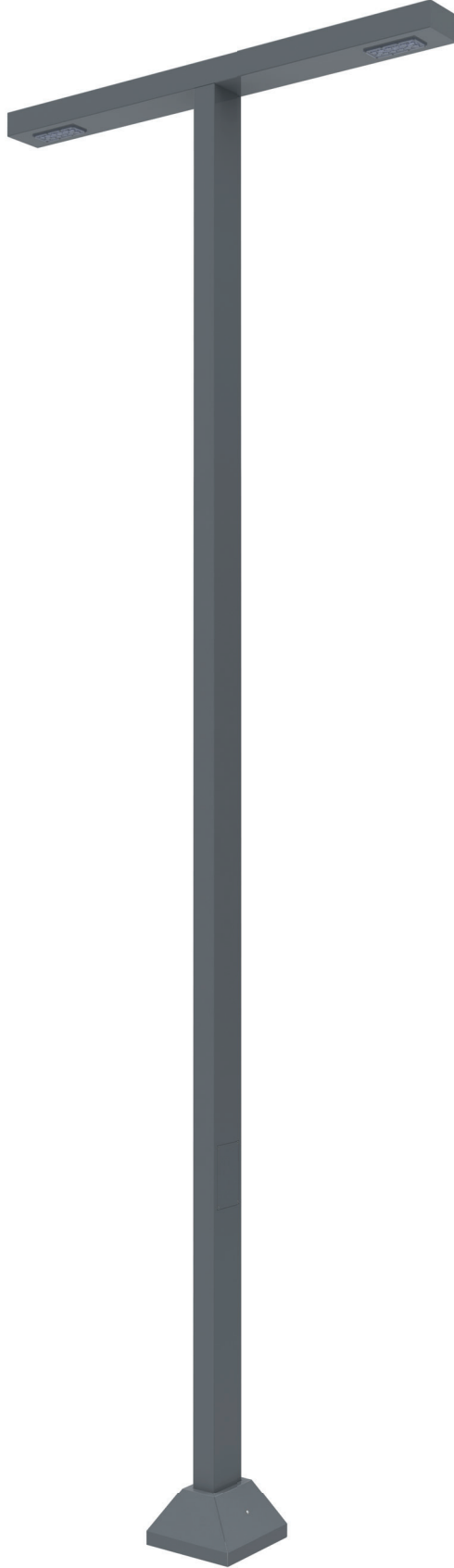




## Pole T

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

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# Pole T

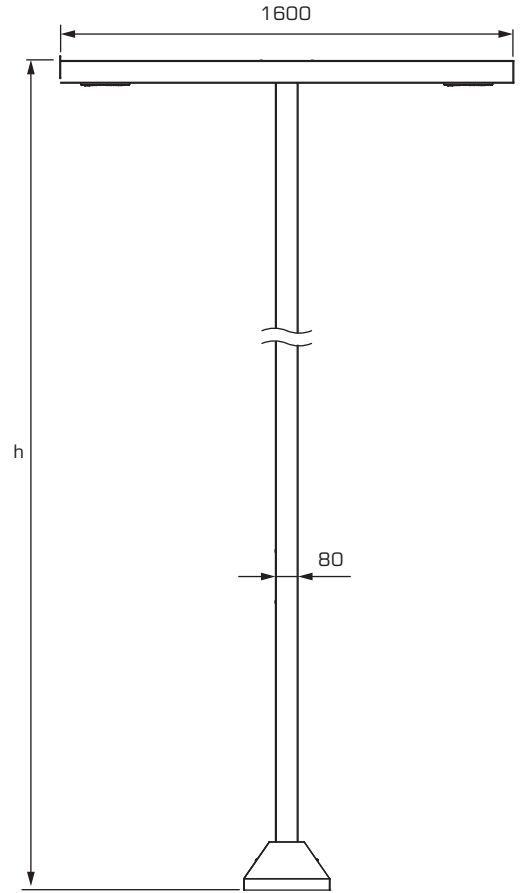
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series





# Pole T

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Pole T

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Pole T	140W	16800lm	4m

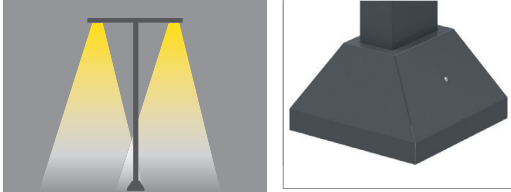
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse



Parafudr  
Surge protection device

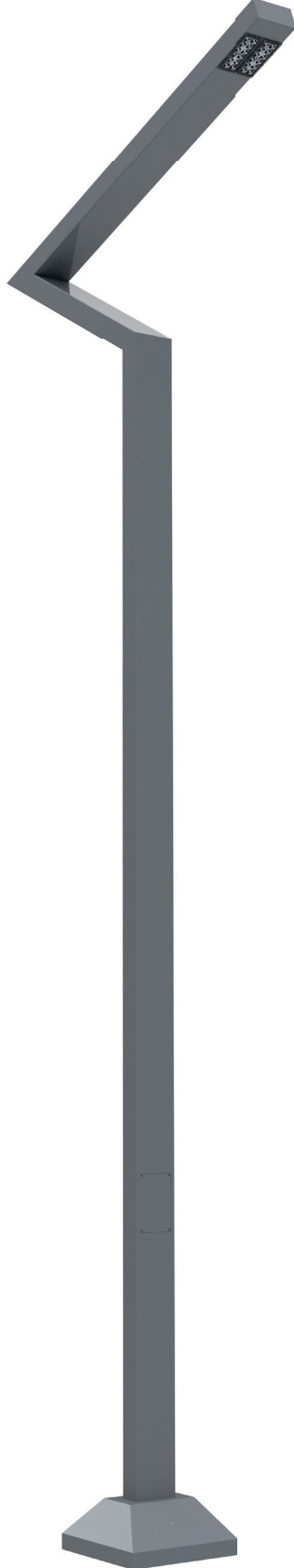
GUARANTY 3 yrs	CE	TSE	RoHS	EAC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
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## Pole V

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

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# Pole V

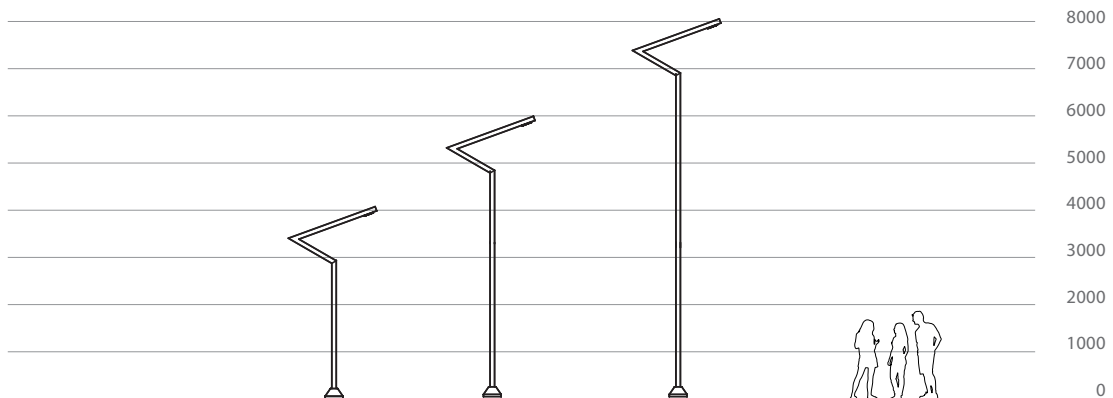
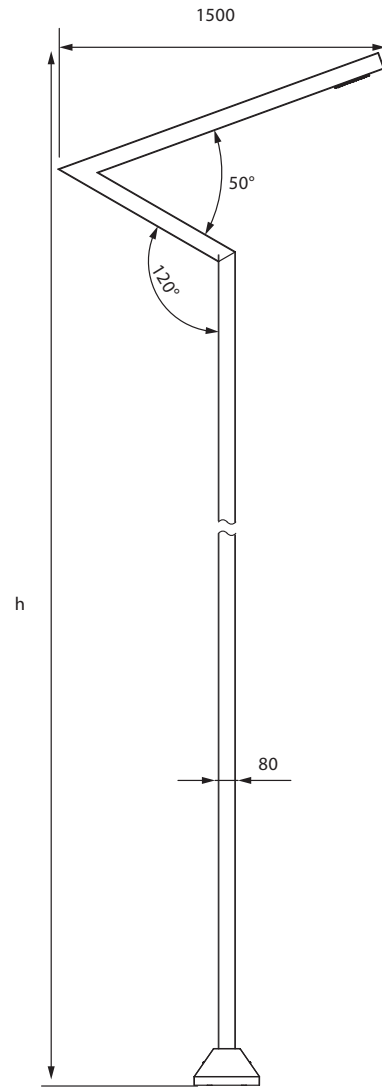
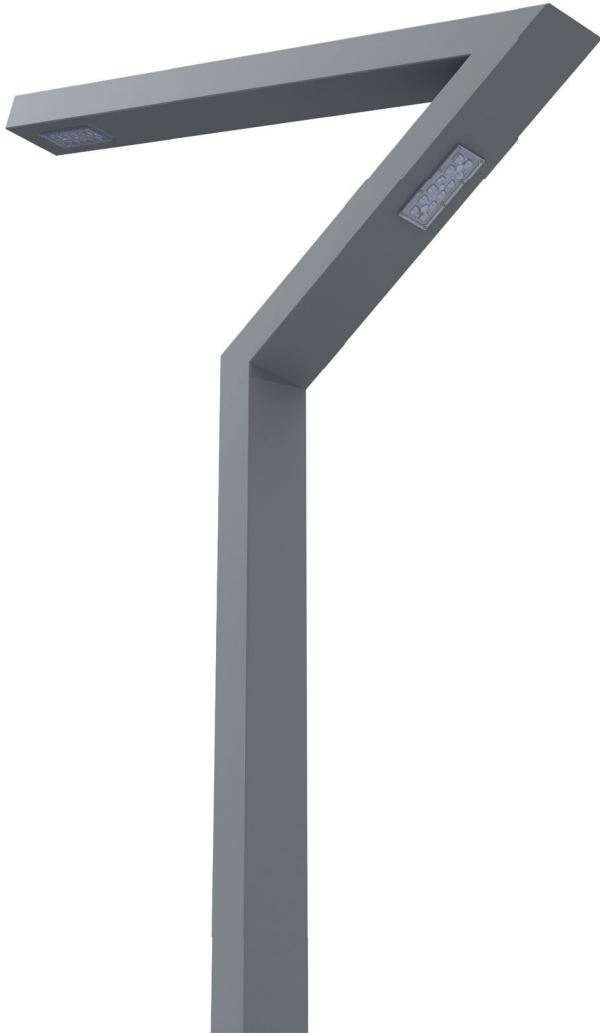
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series





# Pole V

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Pole V

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Pole V	35W+35W	8400lm	4m
Pole V	70W+35W	12600lm	6m
Pole V	70W+35W	12600lm	8m

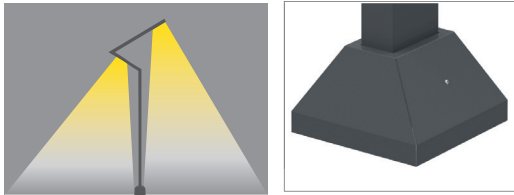
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

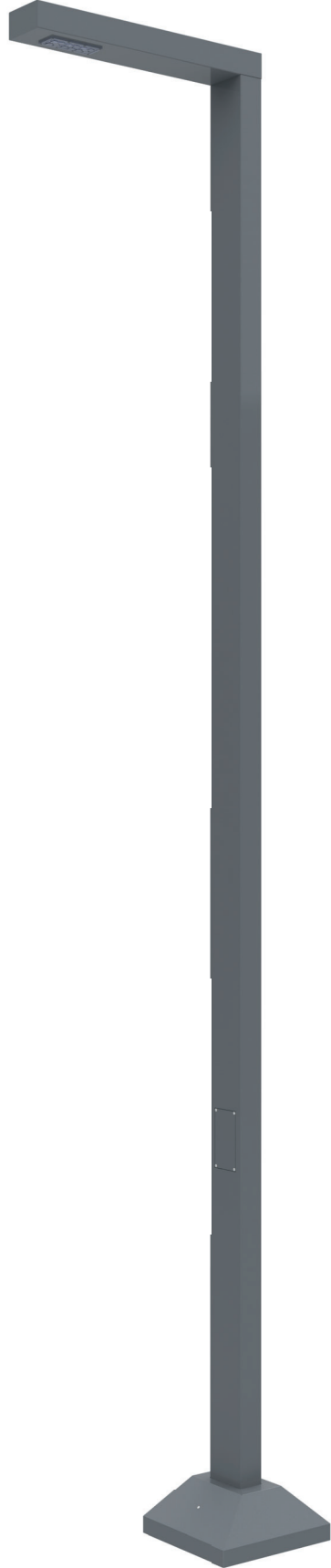




## Pole L

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

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## Pole L

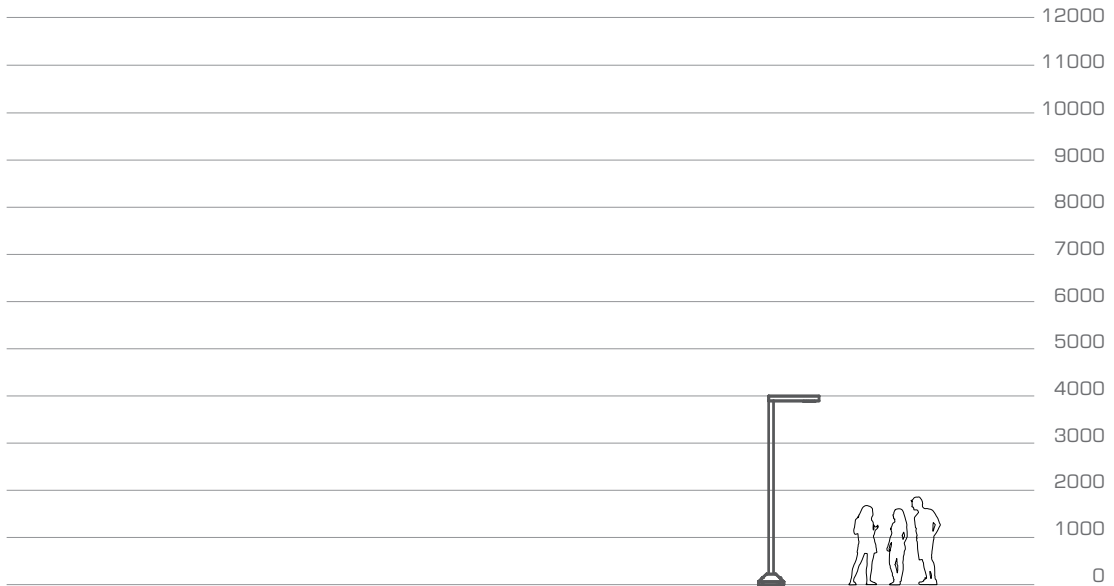
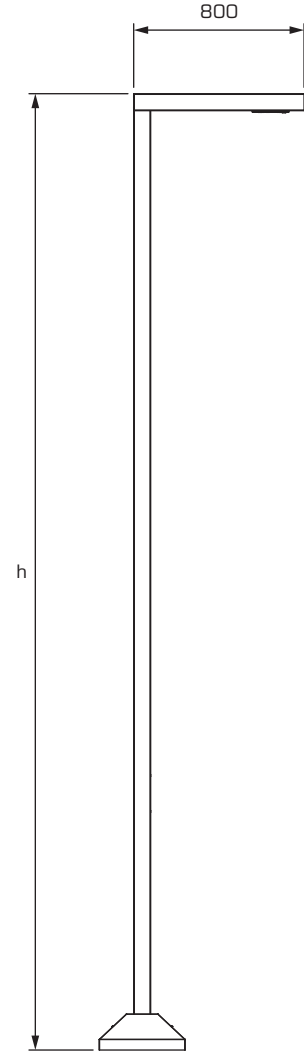
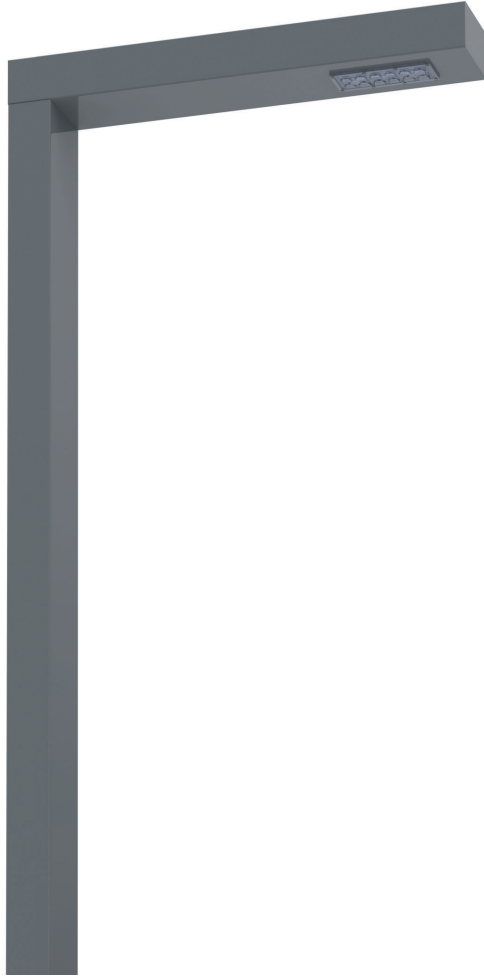
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*





# Pole L

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Pole L

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Pole L	70W	8400lm	4m

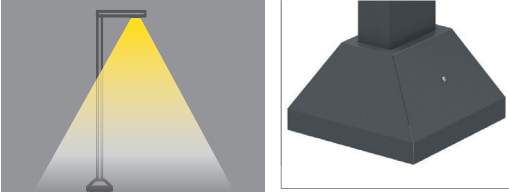
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
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- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
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- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse



Parafudr  
Surge protection device

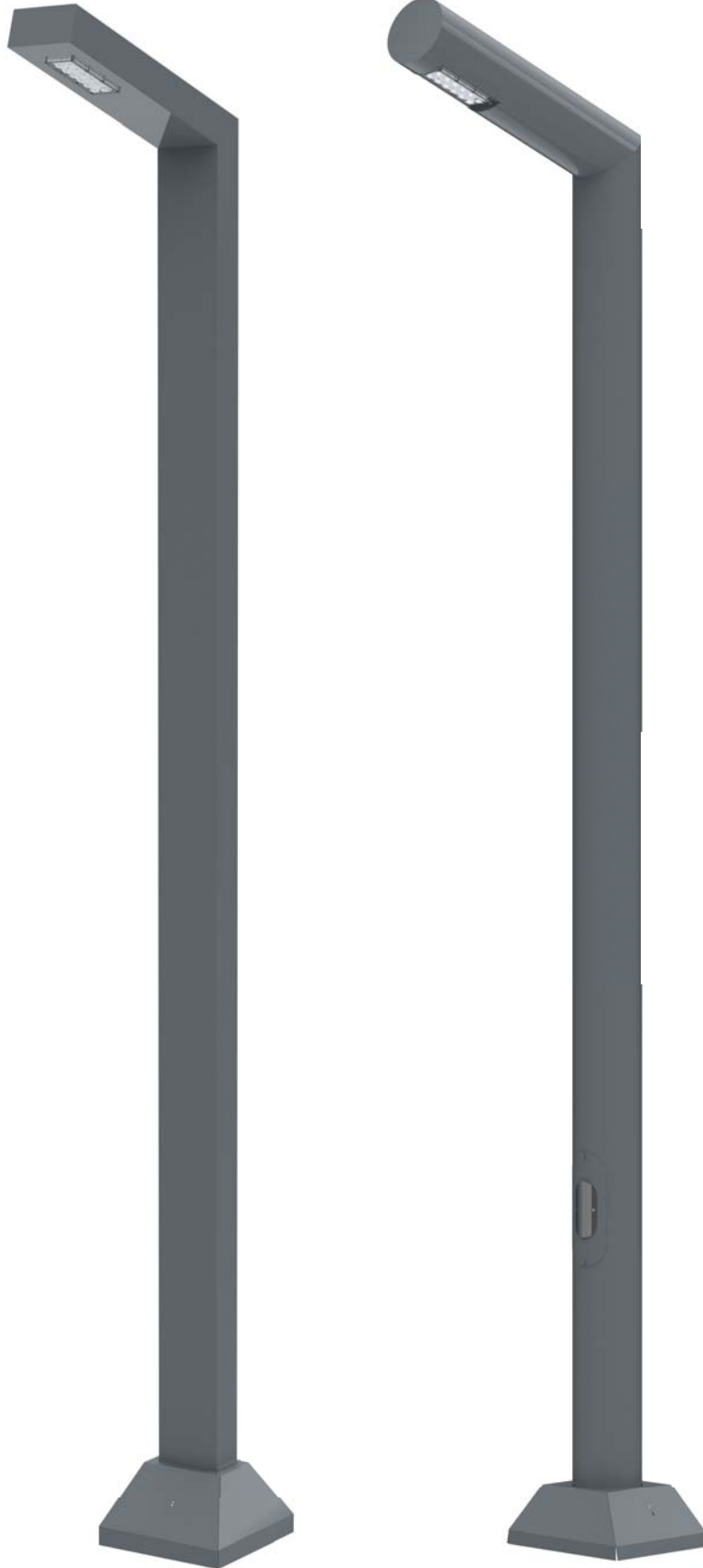
GUARANTY 3 yrs	CE	TSE	RoHS	ERC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
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## Pole Up

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

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## Pole Up

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

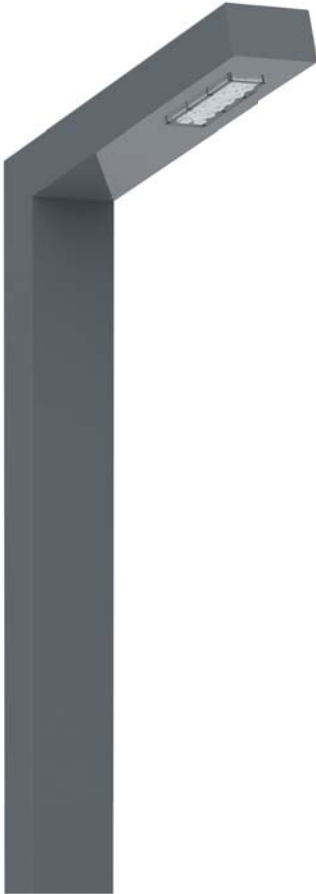




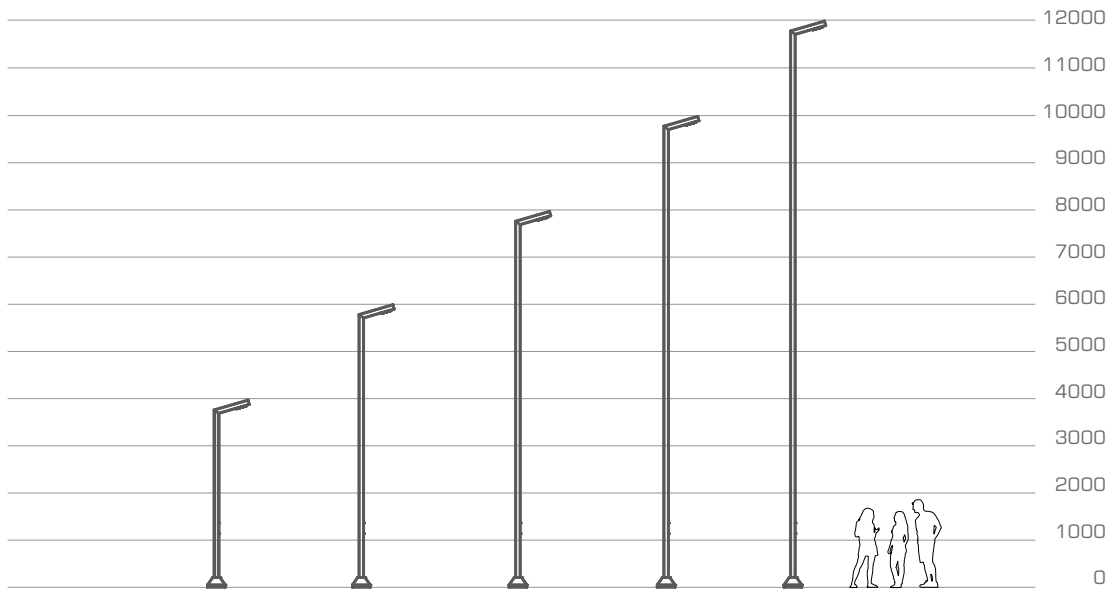
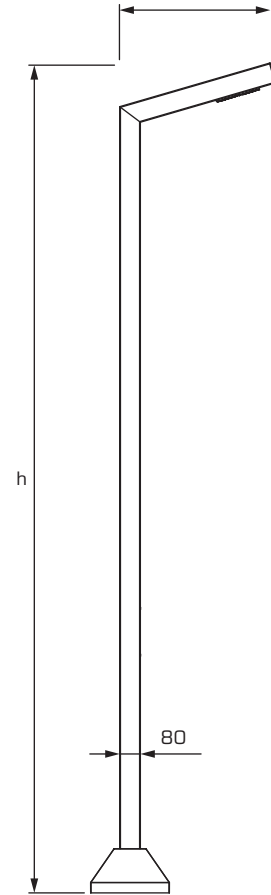
# Pole Up

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

Pole Up K



Pole Up S



# Pole Up

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Pole Up	35W	4200lm	2m

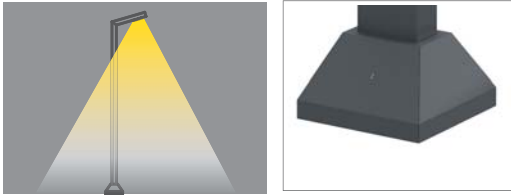
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
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## Mechanical properties

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- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

GUARANTY 3 yrs	CE	TSE	RoHS	ERC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
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## Balance

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

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# Balance

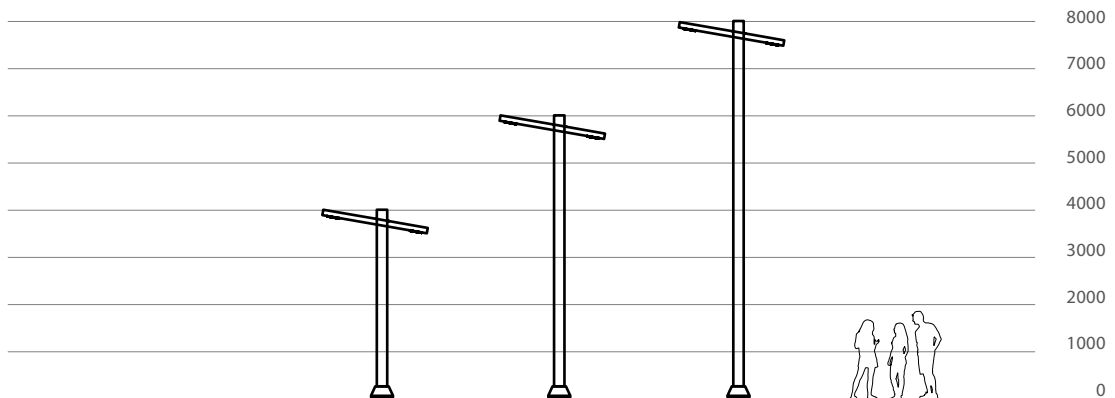
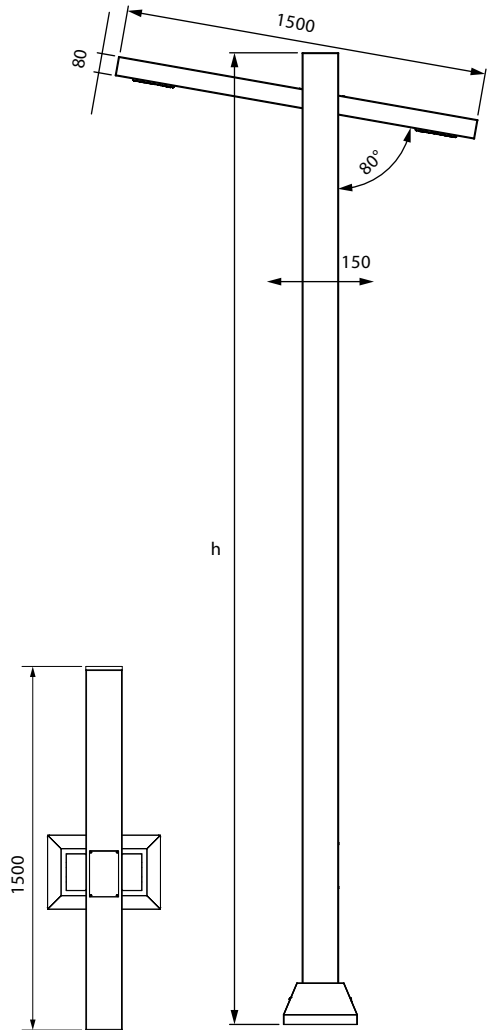
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series





# Balance

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Balance

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Balance	35W+35W	8400lm	4m
Balance	70W+35W	12600lm	6m
Balance	70W+35W	12600lm	8m

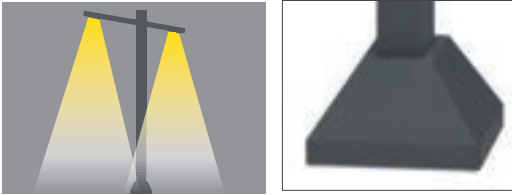
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
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- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

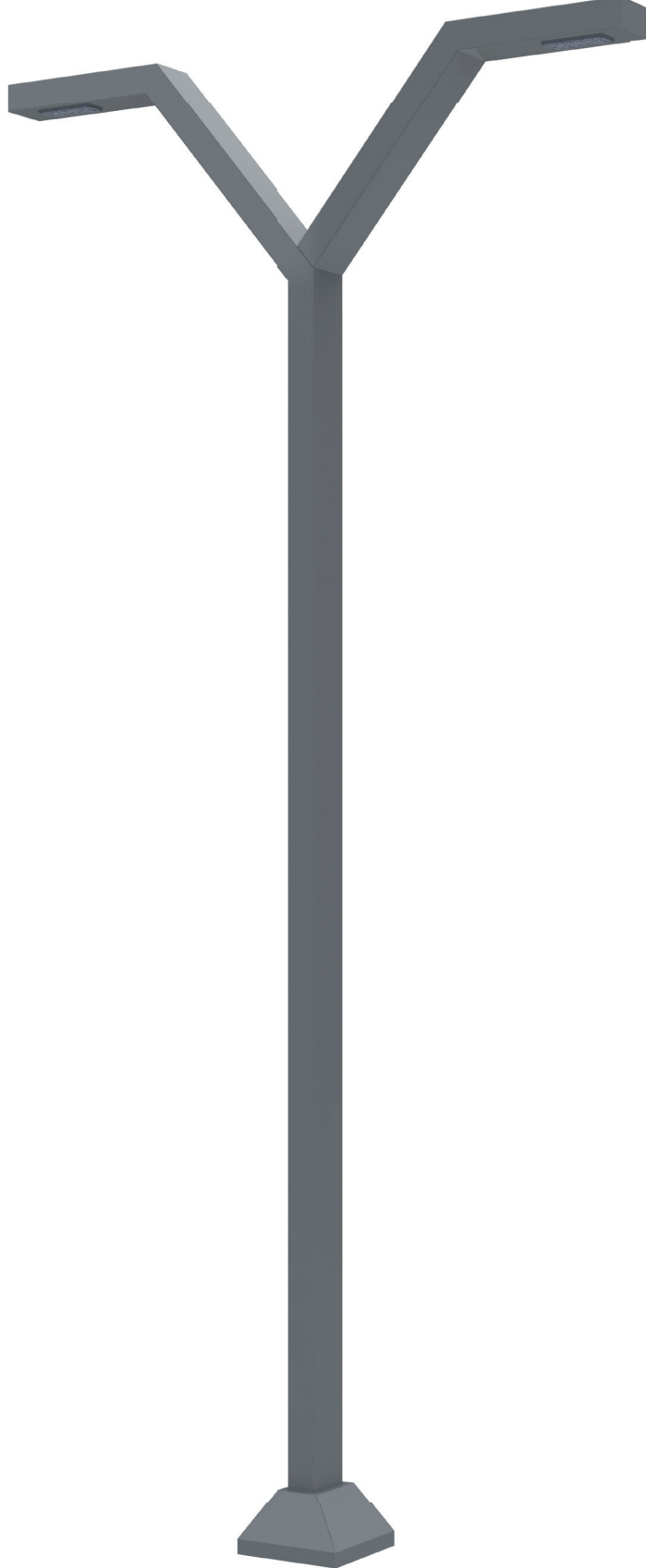




# Eagle

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

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# Eagle

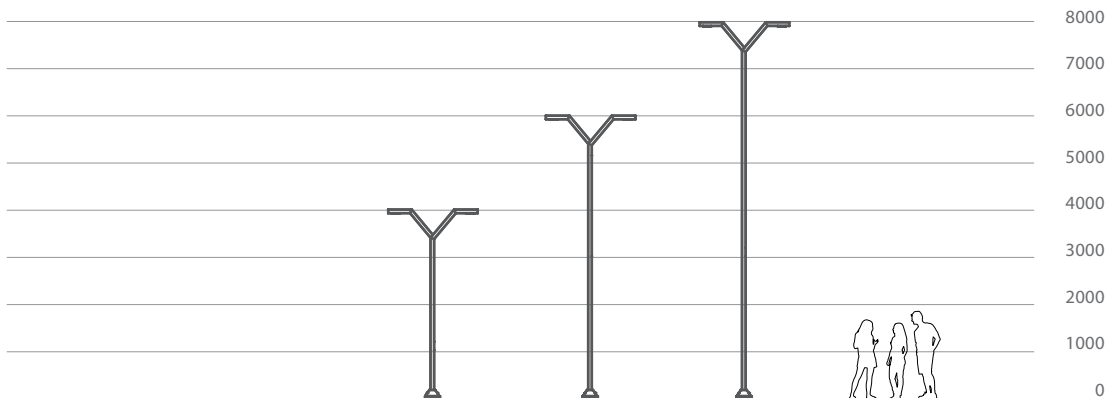
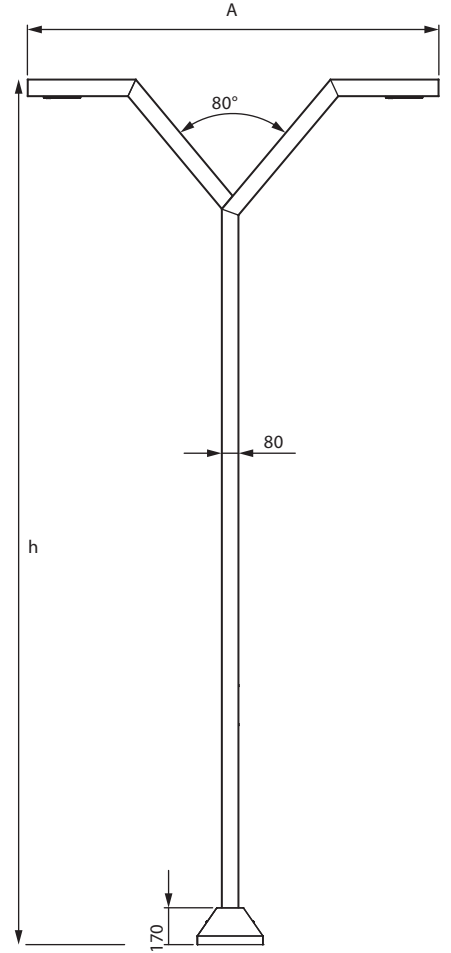
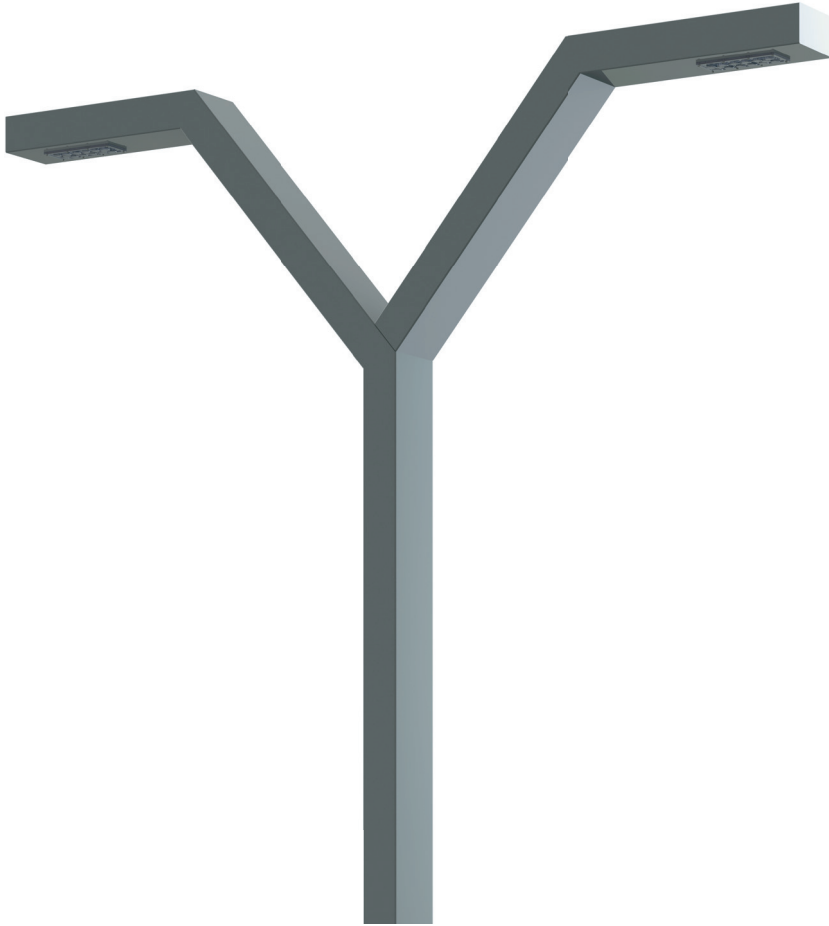
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series





# Eagle

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Eagle

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h-A) Length
Eagle	35Wx2	8400lm	4m-1,9m
Eagle	70Wx2	16800lm	6m-2,8m
Eagle	70Wx2	16800lm	8m-2,8m

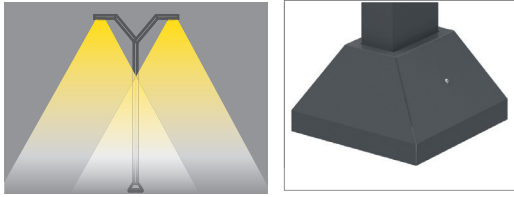
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

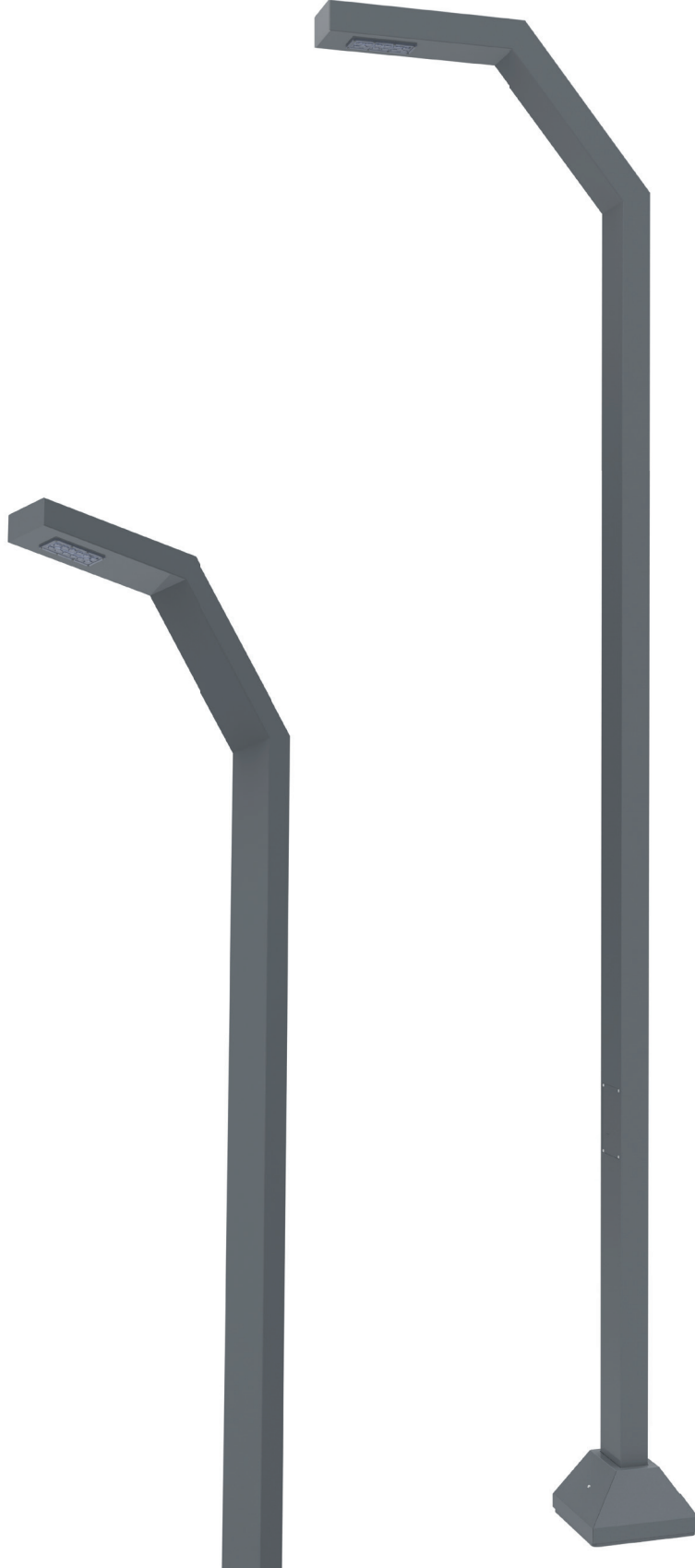




## Eagle S

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series

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# Eagle S

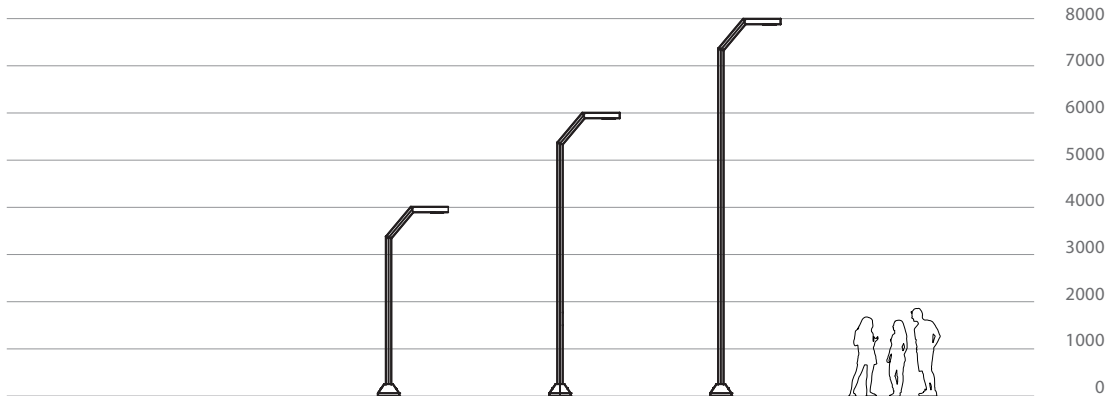
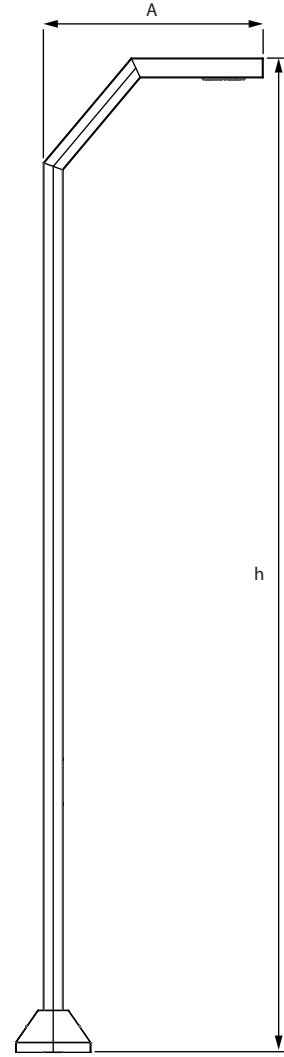
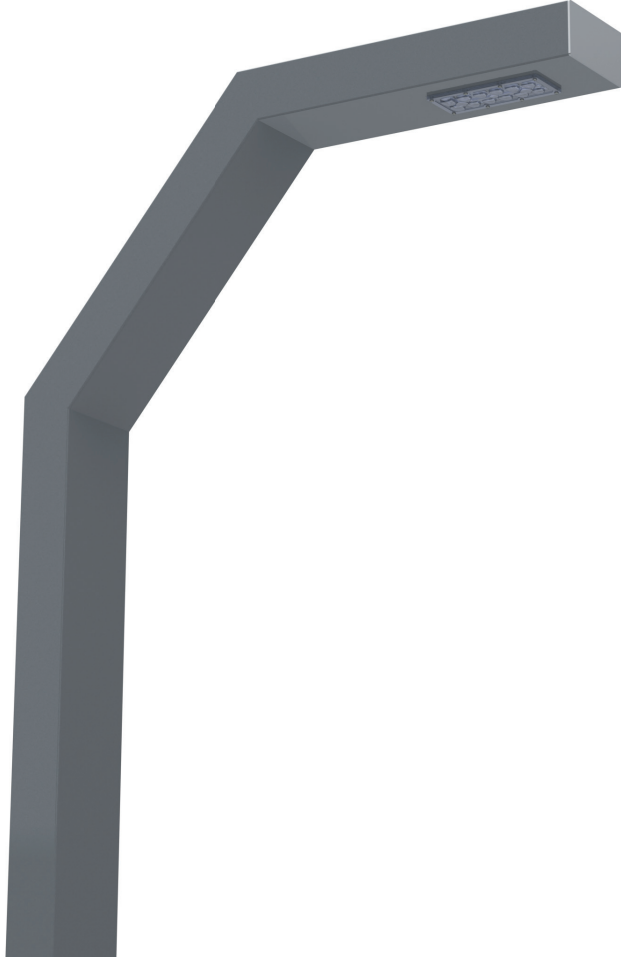
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series





# Eagle S

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Eagle S

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h-A) Length
Eagle S	35W	4200lm	4m-0,9m
Eagle S	70W	8400lm	6m-1,1m
Eagle S	70W	8400lm	8m-1,2m

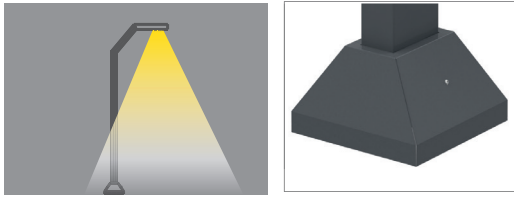
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device





## Tower

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

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# Tower

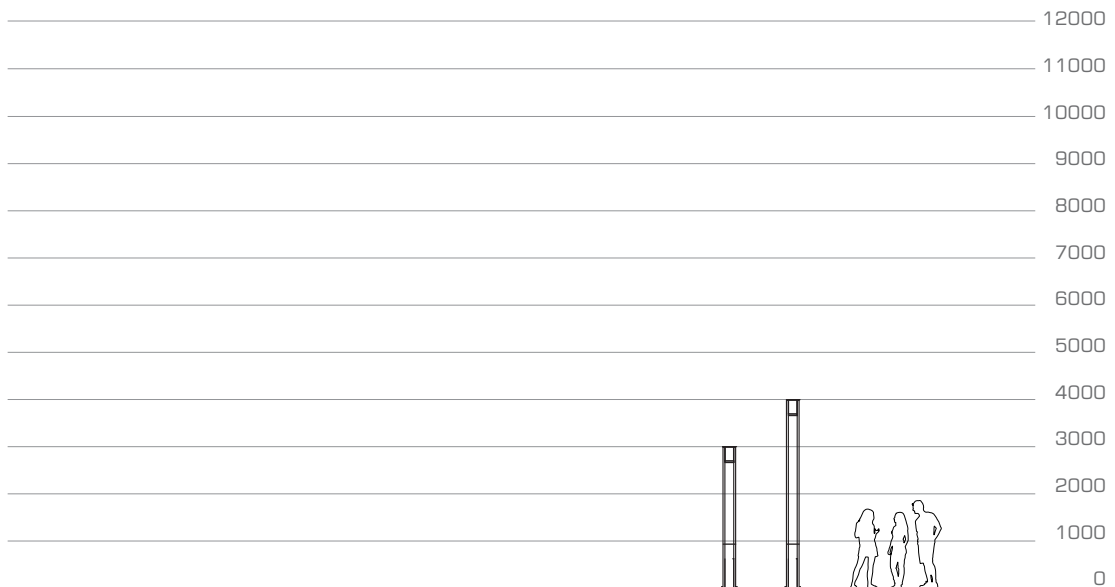
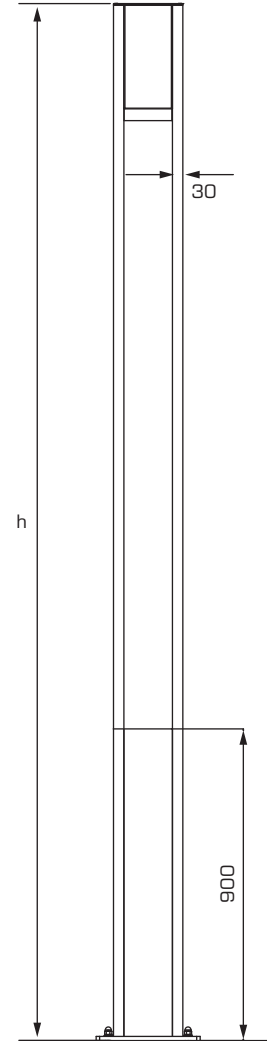
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*





# Tower

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Tower

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Tower	25W	3500lm	3m
Tower	50W	3500lm	4m

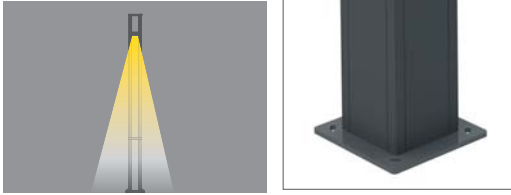
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

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- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

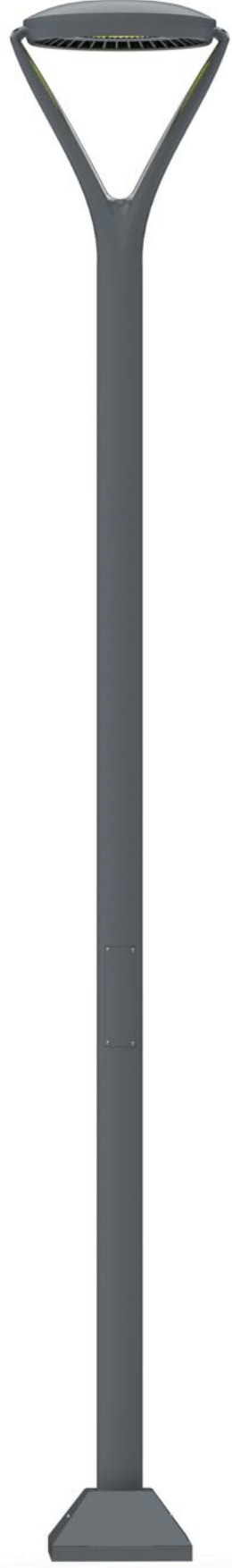




## Neptun

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*

---



# Neptun

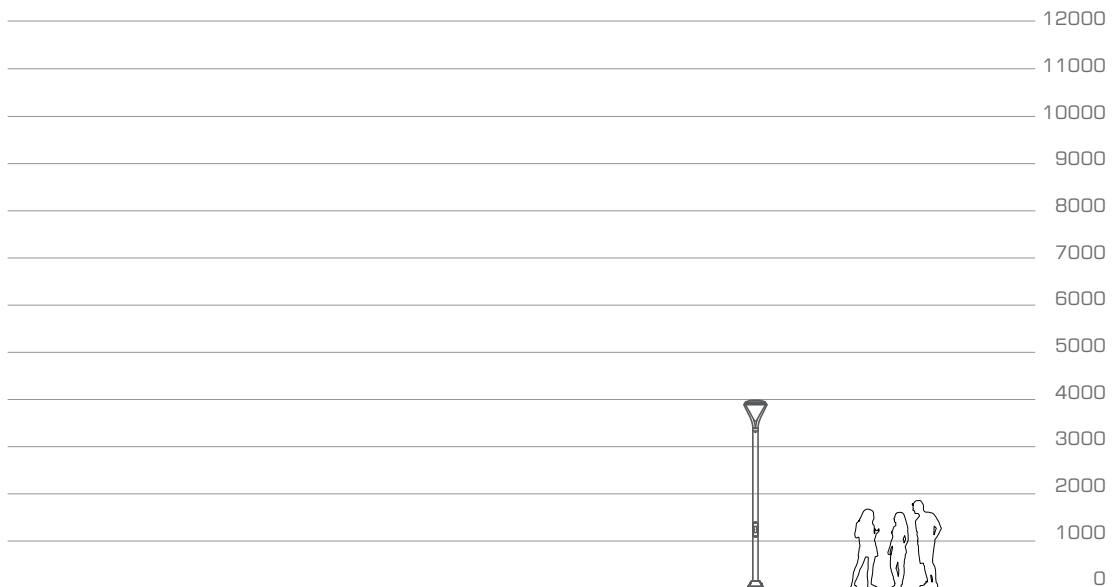
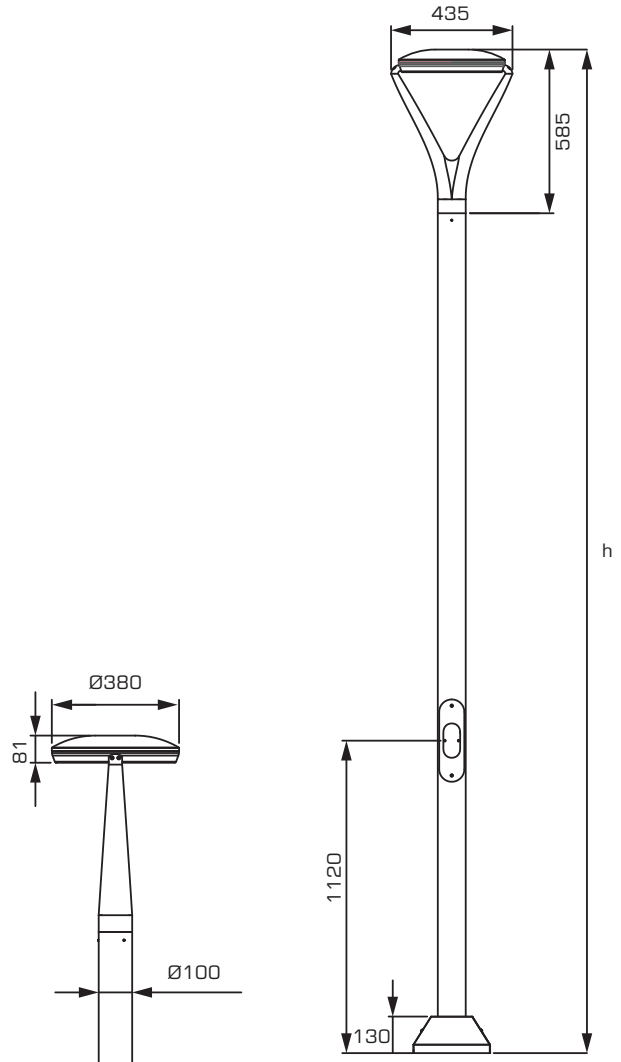
Park&Bahçe&Sokak Aydınlatması | Modern Seri  
*Park&Garden&Street Lighting | Modern Series*





# Neptun

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



# Neptun

Park&Bahçe&Sokak Aydınlatması | Modern Seri  
Park&Garden&Street Lighting | Modern Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Neptun	35W	4200lm	4m
Neptun	50W	6000lm	4m

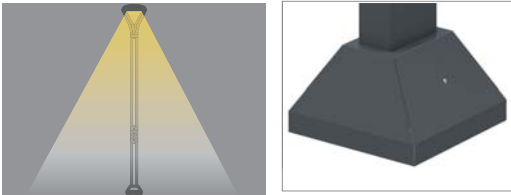
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
- Paslanmaz vidalar
- Silikon conta
- Isı geçirgenliği yüksek elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

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- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

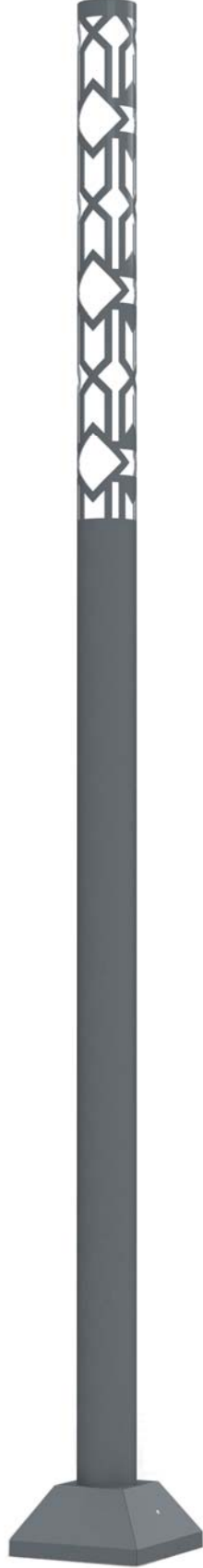




## Figure

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*

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## Figure

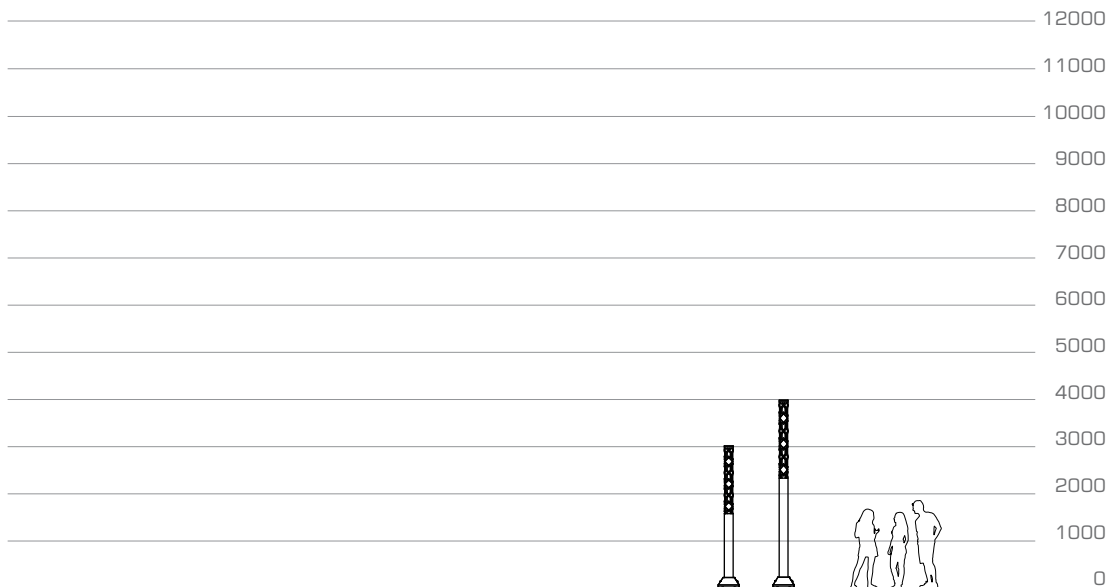
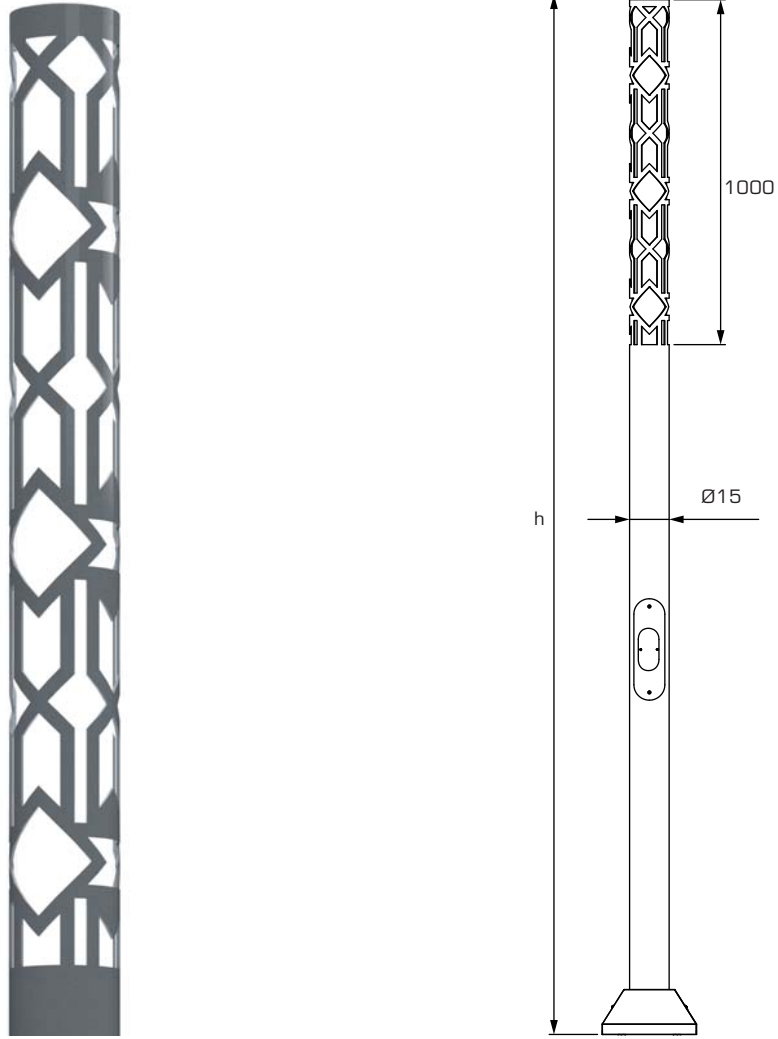
Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*





# Figure

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



# Figure

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Figure	40W	3600lm	3m
Figure	60W	5400lm	4m

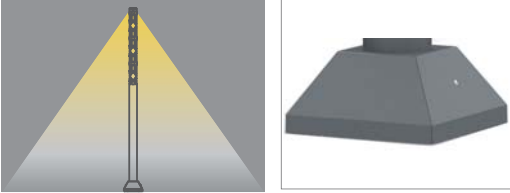
## Mekanik özellikler

- Tercihe göre korozyona dayanıklı alüminyum ekstrüzyon veya çelik profil gövde
- Elektronik bileşenleri soğutmak için mükemmel ısı dağılımı
- Isıya ve darbeye dayanıklı IP Lens grubu
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- Mekanik dayanım direnci IK08
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- Elektriksel koruma sınıfı Class I

## Mechanical properties

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- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device





## Swing

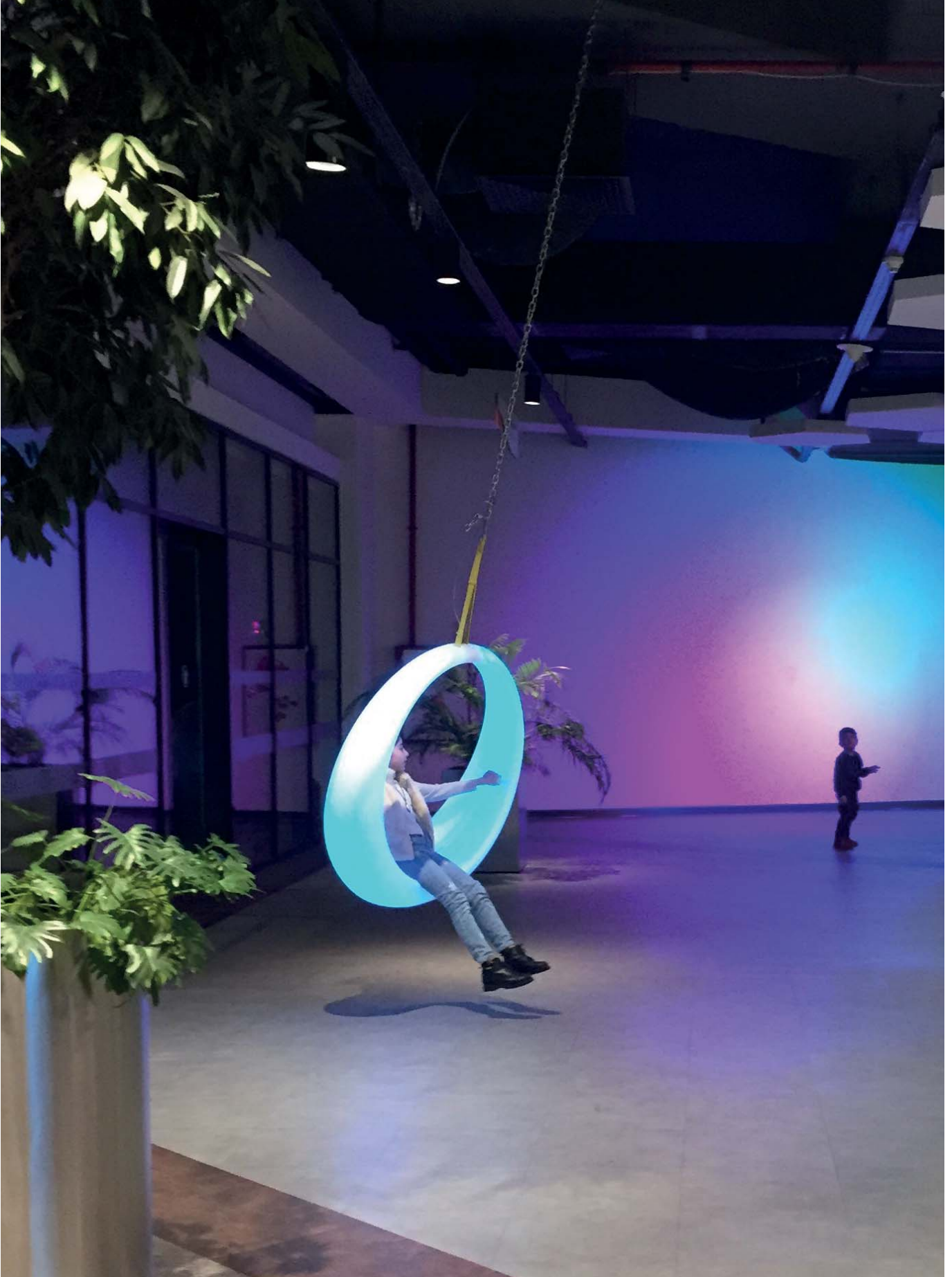
Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*

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## Swing

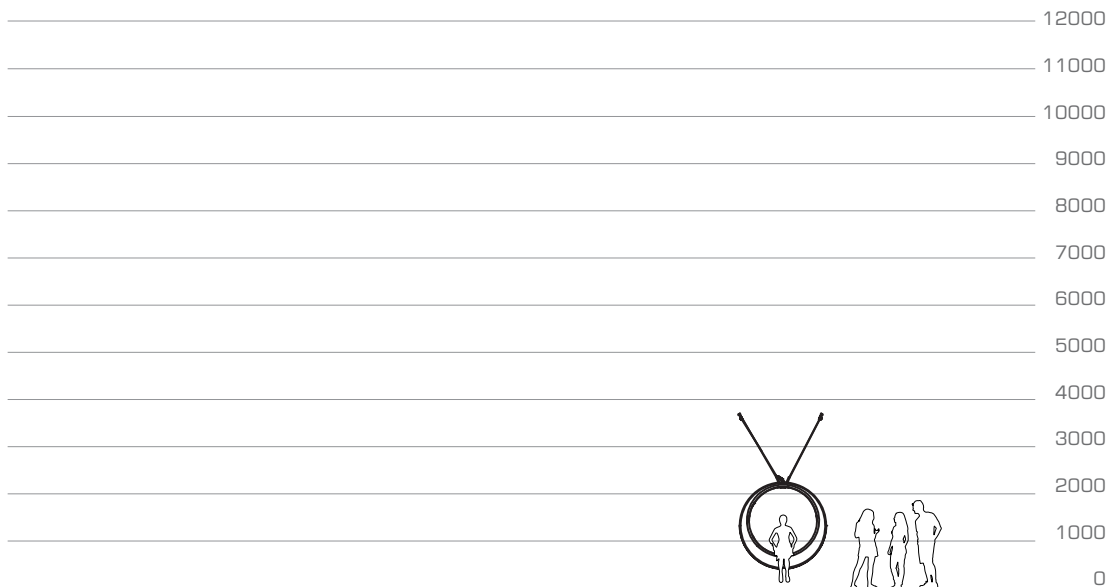
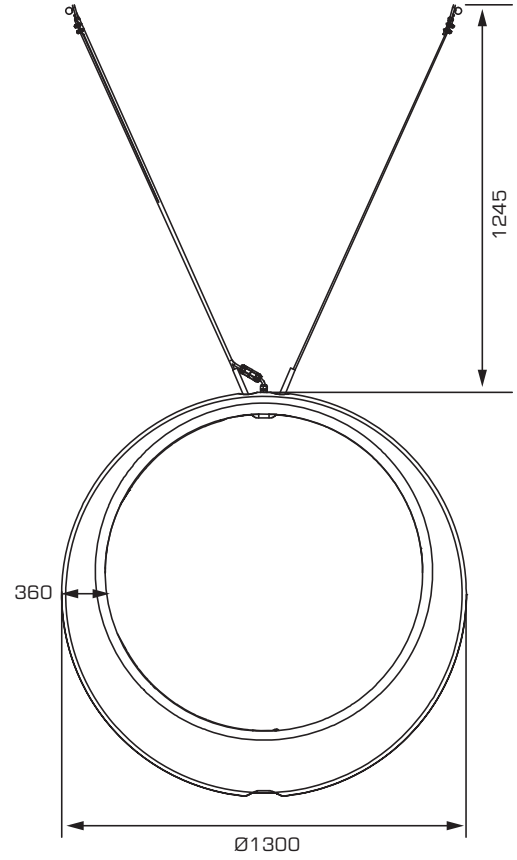
Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series





# Swing

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



# Swing

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Çap Diameter
Swing	27W	Ø1300mm

## Mekanik özellikler

- Düşük yoğunluklu polietilen malzeme gövde (ldpe)
- UV korumalı ve darbelere dayanıklı gövde
- Dönmeyi önleyici V tip kayış bağlantısı
- İzolasyonlu çelik halat taşıyıcı
- Güvenlik için tasarlanmış yan tutma yerleri
- PCB tipi FR4
- Salınım hareketine göre renk değişimi
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Low density polyethylene material distribution (ldpe)
- UV resistant and impact resistant housing
- Anti-rotation V belt
- Insulated Steel Wire Rope Carrier
- Grip side handles for safety
- PCB type FR4
- Color change according to oscillation movement
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse



Parafudr  
Surge protection device

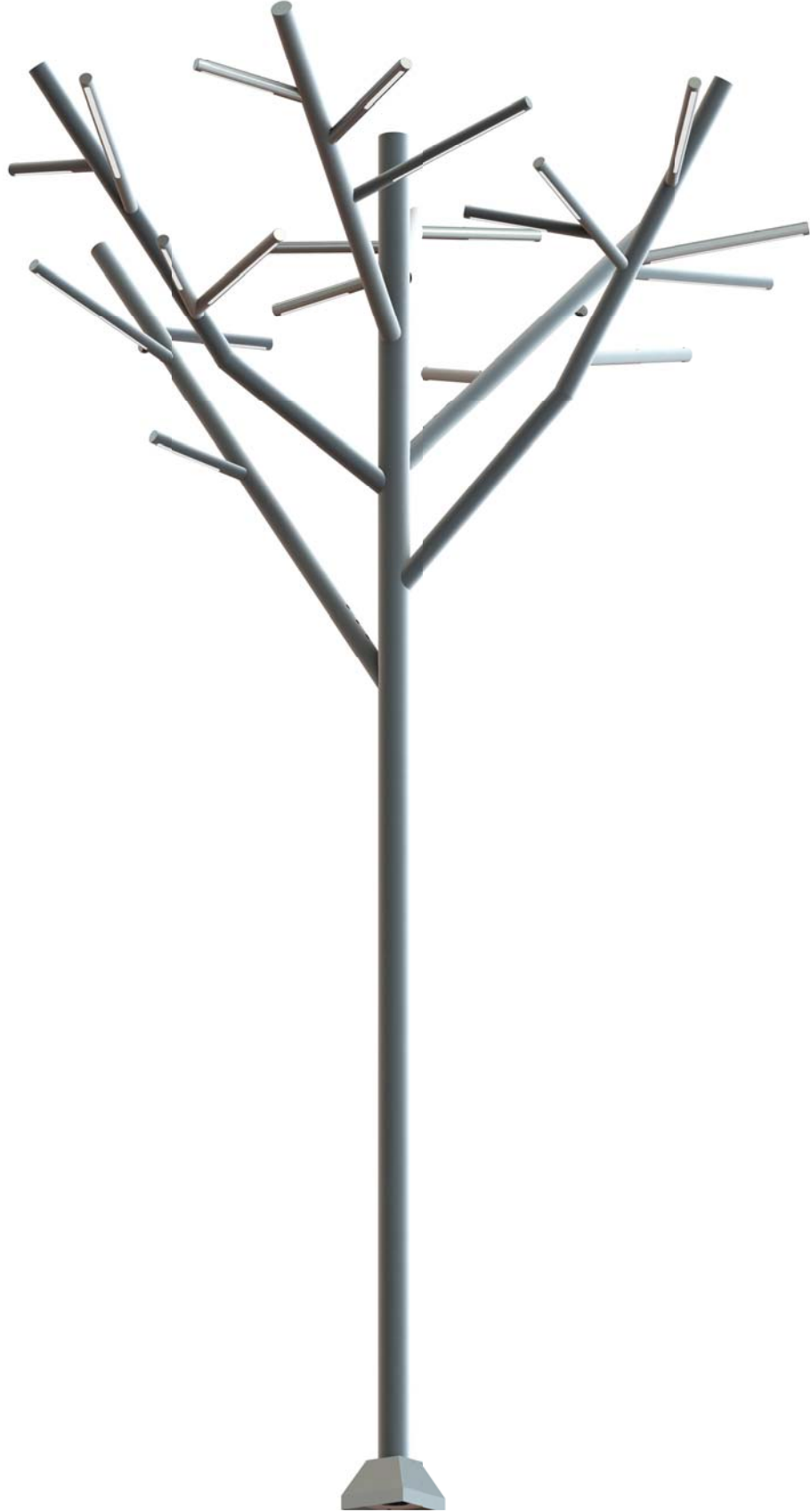
GUARANTY 3 yrs	CE	TSE	RoHS	ERC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
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## Twig

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*

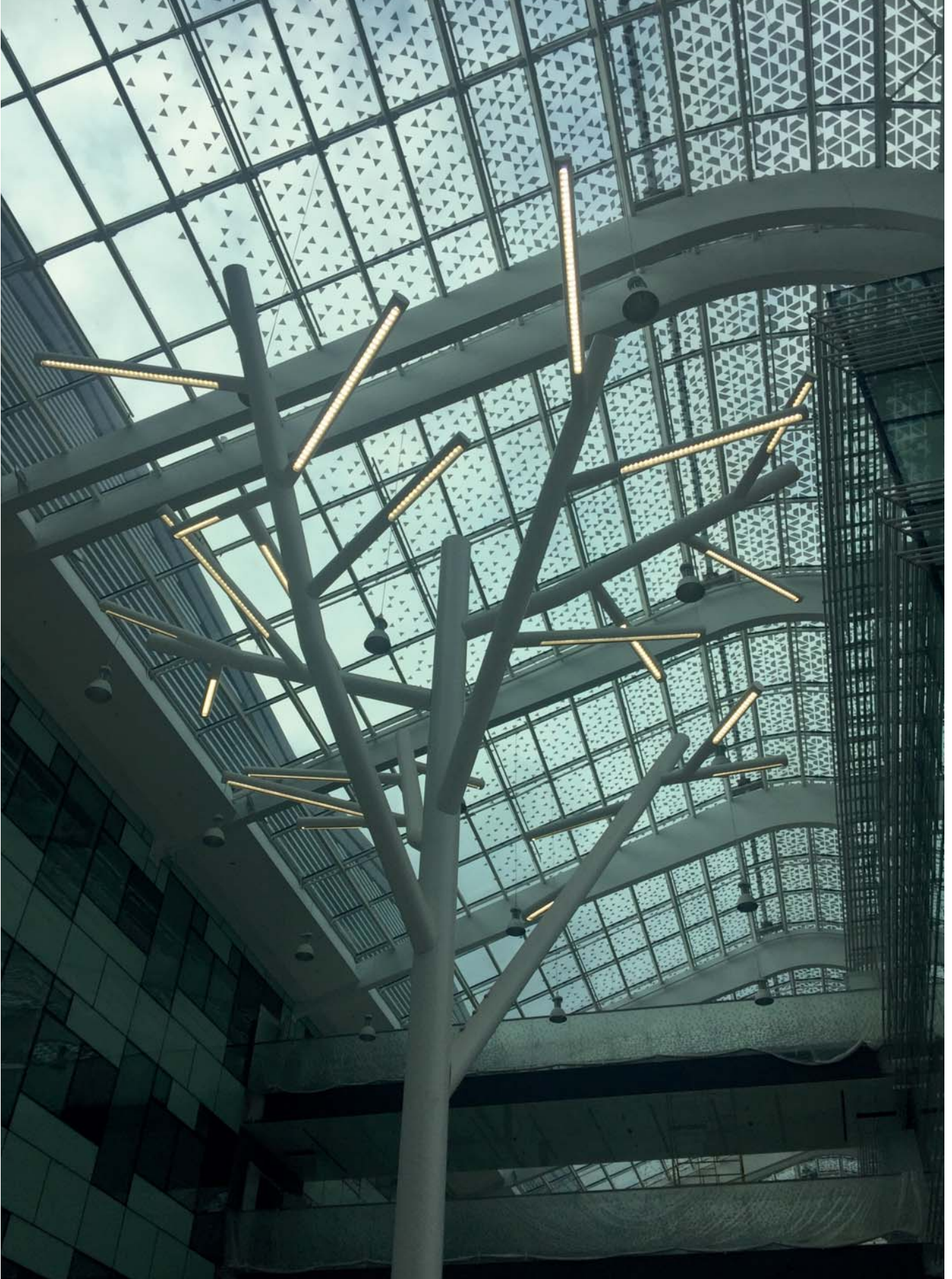
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# Twig

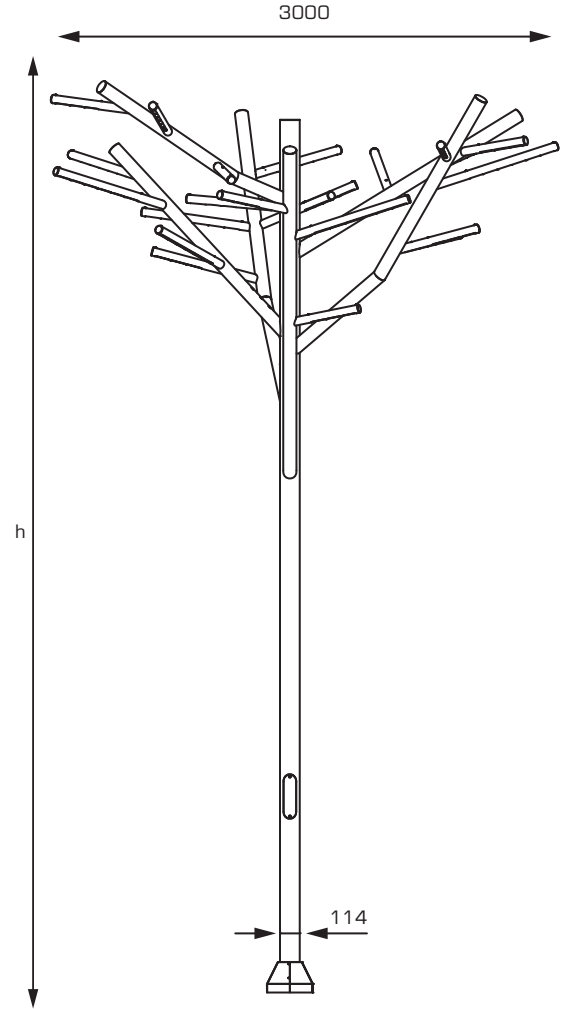
Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*





# Twig

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



# Twig

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Işık Akısı Lumen Flux	Uzunluk (h) Length
Twig	123W	3150lm	5,3m

## Mekanik özellikler

- Paslanmaz gövde ve dalları
- Paslanmaz A2 bağlantı parçaları
- Alüminyum soğutma kanatları ile etkin soğutma sağlayan led aydınlatma gövdesi
- 260x260x12mm ankraj bağlantısı
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Stainless steel body and twig
- Stainless steel A2 fittings
- Effective cooling with aluminum cooling fins led lighting body
- 260x260x12mm anchor connections
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse

Parafudr  
Surge protection device

GUARANTY 3 yrs	CE	TSE	RoHS	ERC	DRIVER	IP 66	IK 08 IK 10	220V-240V 50/60Hz	Ta -40° +50°	Ra>70	Pf>0,9	⊕
-------------------	----	-----	------	-----	--------	----------	----------------	----------------------	-----------------	-------	--------	---



## Dandelion

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*

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# Dandelion

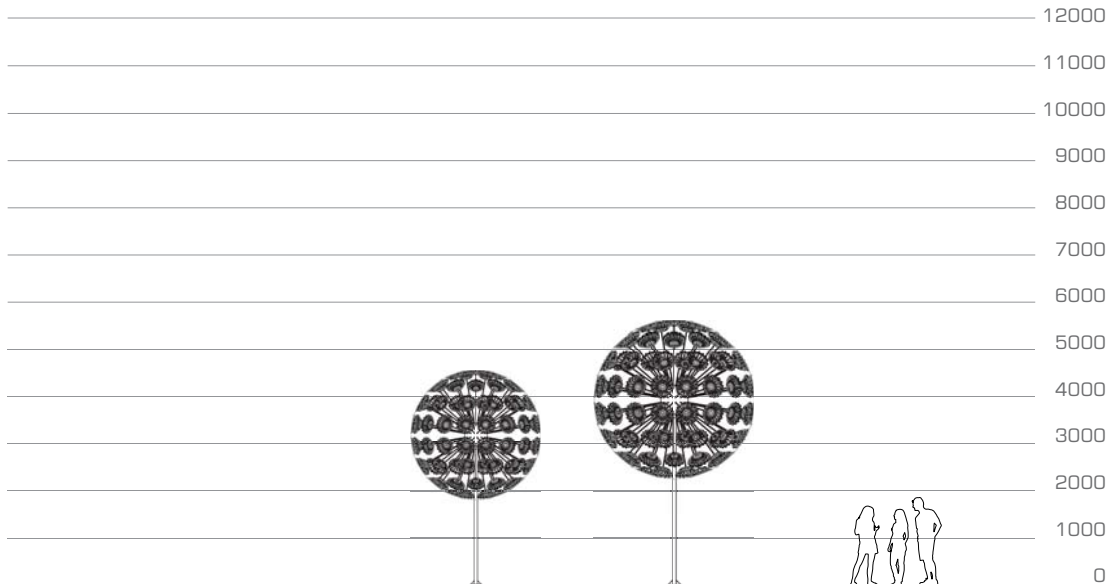
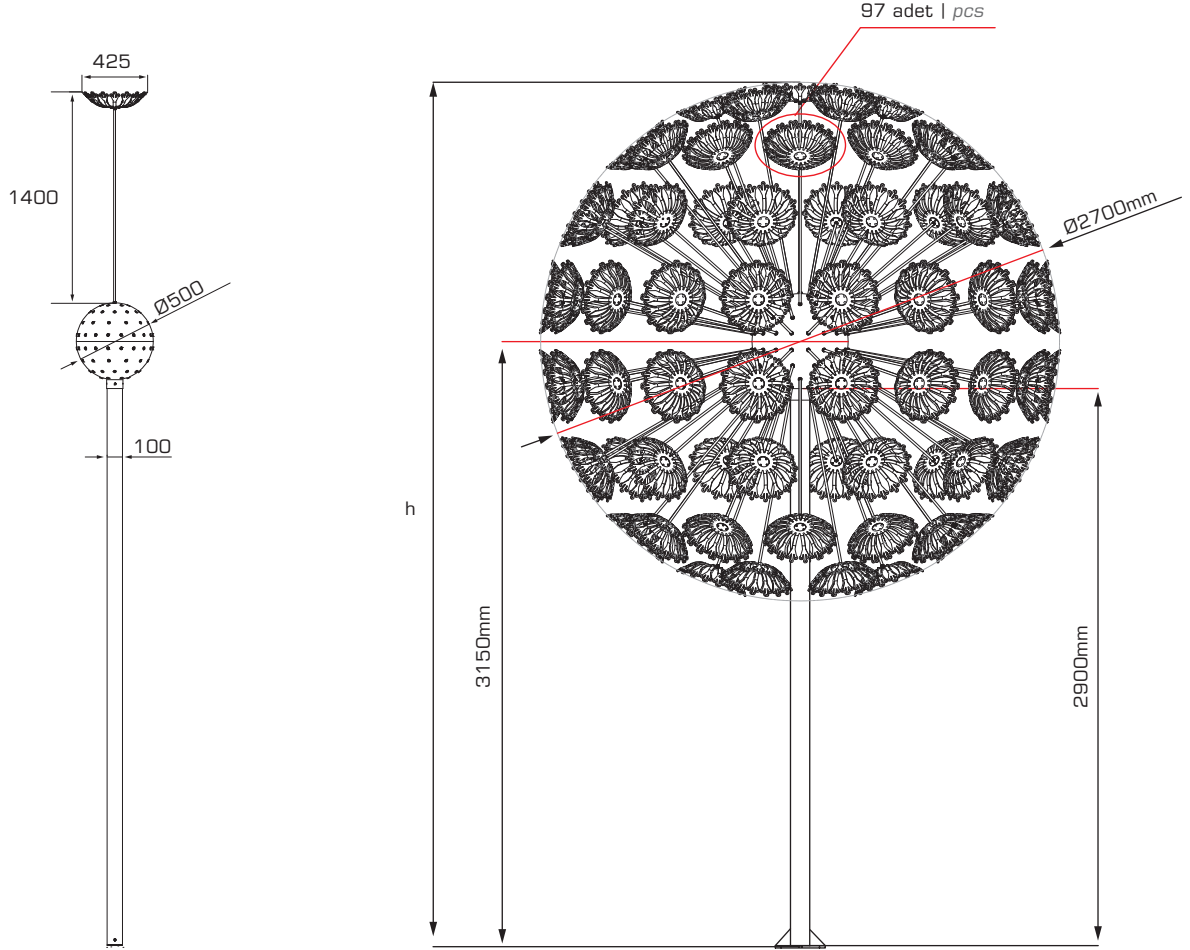
Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
*Park&Garden&Street Lighting | Decorative Series*





# Dandelion

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



# Dandelion

Park&Bahçe&Sokak Aydınlatması | Dekoratif Seri  
Park&Garden&Street Lighting | Decorative Series



## Teknik Veriler | Technical Data

Model Model	Güç Power	Uzunluk (h) Length	Çap Diameter
Dandelion	110W	4,5m	Ø270
Dandelion	110W	5,5m	Ø320

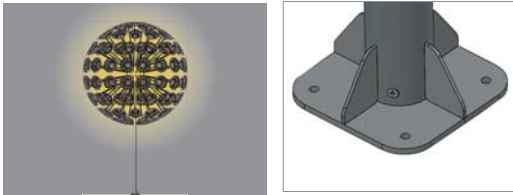
## Mekanik özellikler

- Paslanmaz gövde
- Akrilik ışık yayıcılar
- Elektrostatik polyester toz boya
- EN-60598 Avrupa Standartlarına uygundur
- Mekanik dayanım direnci IK08
- Neme ve toza karşı koruma sınıfı IP66
- Elektriksel koruma sınıfı Class I

## Mechanical properties

- Stainless steel
- Acrylic light emitters
- Electrostatic polyester powder coating
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK08
- Protection level IP66
- Electrical protection Class I

## Ürün detayları | Product details



## Aksesuarlar | Accessories



Sigorta  
Fuse



Parafudr  
Surge protection device





# HighBay Luminaires

LL

DP

CD

WW

CS

CF

AC

CG

CB

**HB**

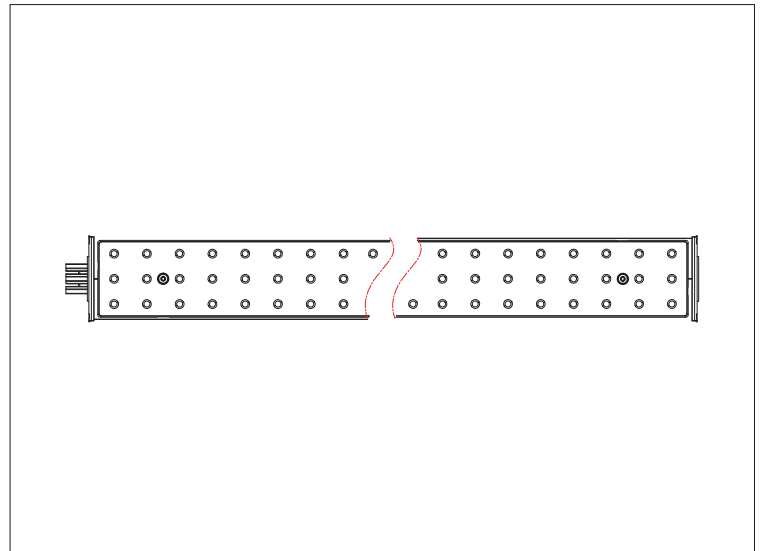
MM

RDMX

LC

FO

EL

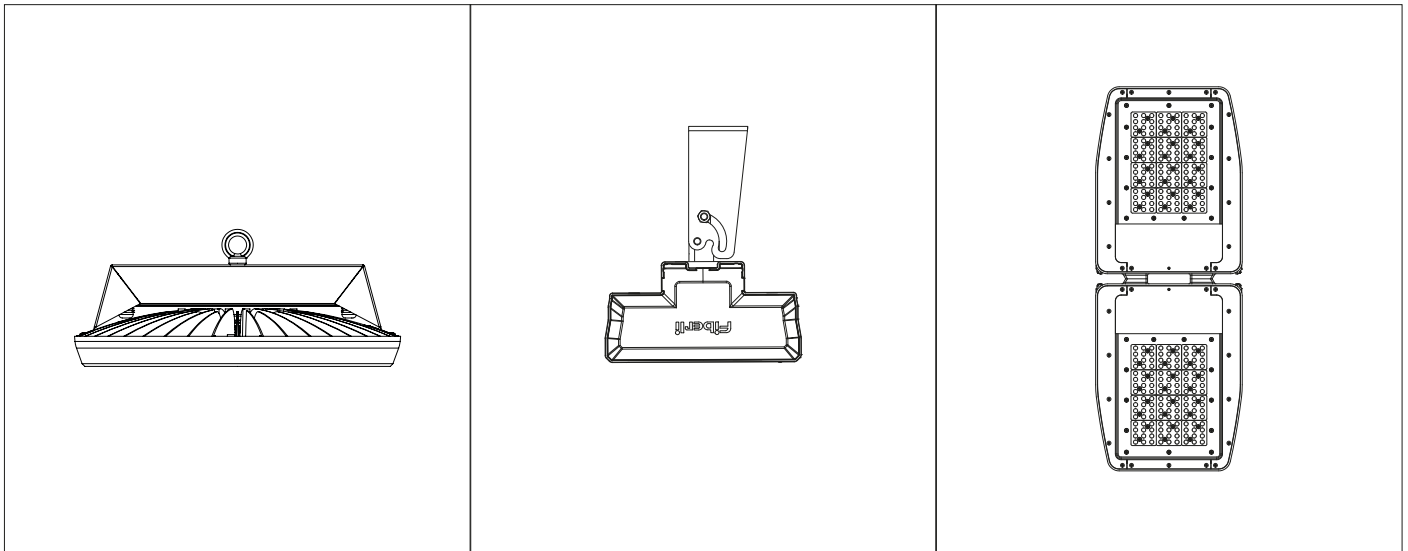


## HighBay

Our highbay product range is ready with designs that perfectly combine technology and efficiency. It provides ideal illumination with tempered glass and reflector / lens options suitable for different ceiling heights. Offers industrial and retail lighting solutions with long-life options that reduce maintenance costs.



# HighBay Luminaires



## HighBay - HighBay & LowBay Lighting



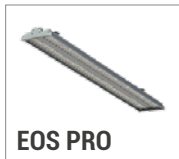
BERT



BERT PRO



EOS



EOS PRO



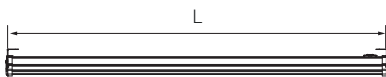
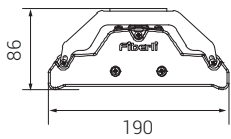
AY380 TECO



AY380 PRO



CRAKE



- High efficiency optical design (up to 160 lm/W)
- Anodized aluminum extrusion profile body
- Suitable for hygienic environments, dust-free body design
- Aluminum injection side covers
- High efficiency tempered glass
- High efficiency reflector and optional lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
HBBR80	WW-NW-CW	220-240V AC	70	10.360	815	4,8
HBBR80	WW-NW-CW	220-240V AC	95	14.060	815	4,8
HBBR120	WW-NW-CW	220-240V AC	110	16.280	1215	6,7
HBBR120	WW-NW-CW	220-240V AC	135	20.000	1215	6,7

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

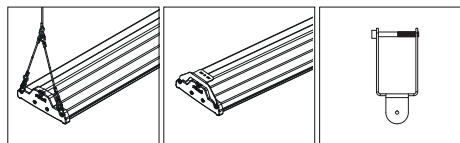
\*Different colors are optional

## O Lens Options



M: Medium Angle  
W: Wide Angle

## M Mounting Options



25: Pendant Mounting  
26: Surface Cable Tray Mounting  
36: Busbar Hanger

\*For 25 option rope not included

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## J Junction Options



01: Cable  
02: IP Socket



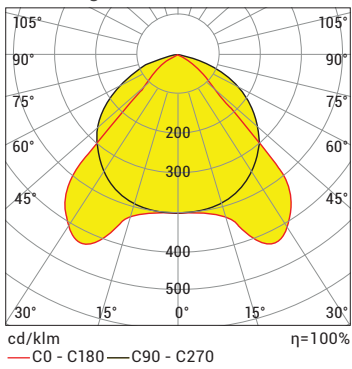
Order Code

P . W . C . S . O . J . M



## Product Diagrams

Polar Diagram









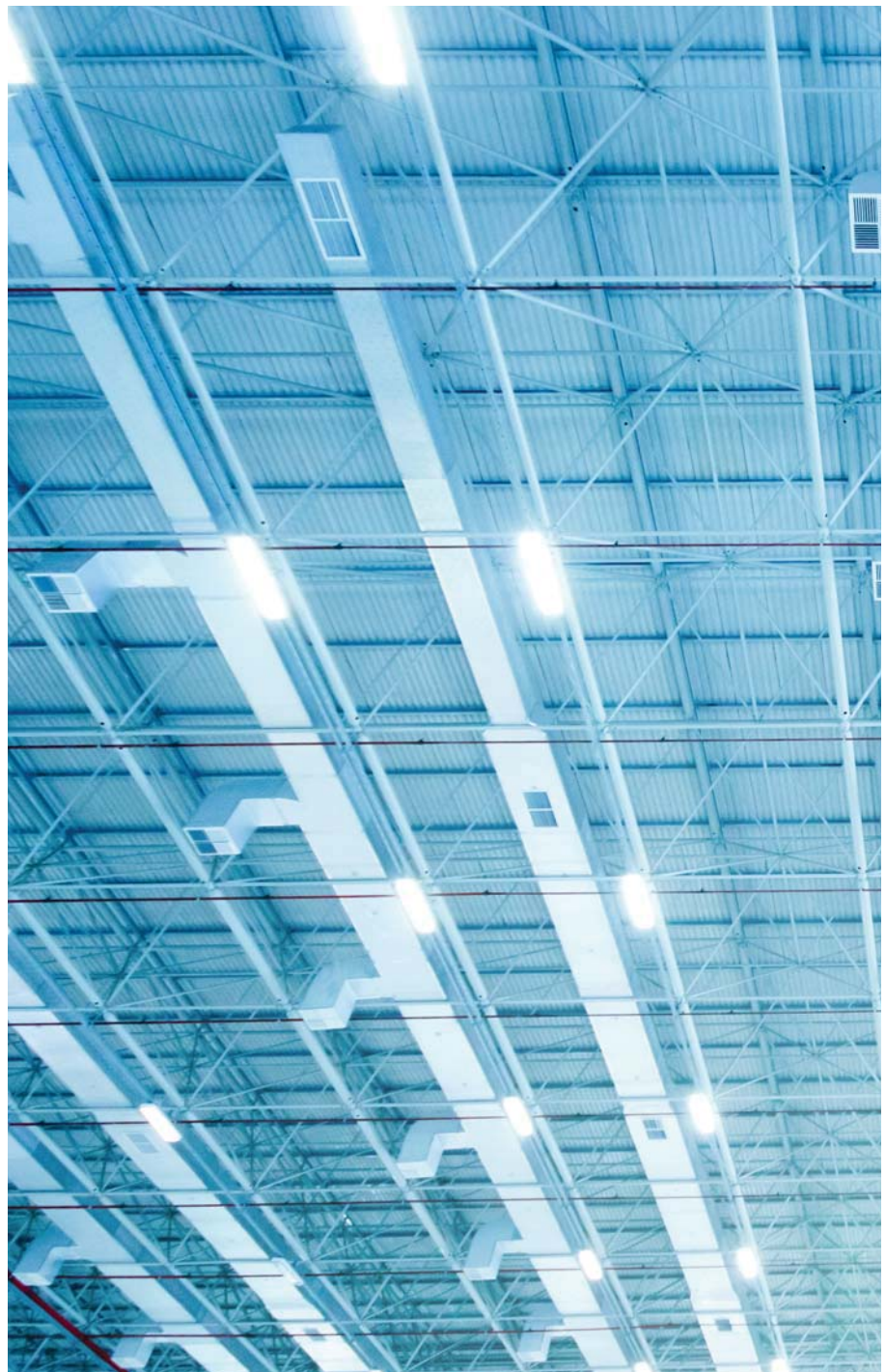
Conical Diagram

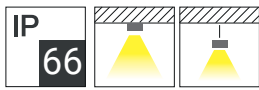
H (mt)	$\emptyset$ (m)	E <sub>max</sub> (lx)
0.5	1.63	28731
1.0	3.26	7183
1.5	4.90	3192
2.0	6.53	1796
2.5	8.16	1149
3.0	9.79	798

HBBR120 CW65 134W 90D 220VAC IP66

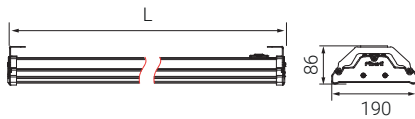
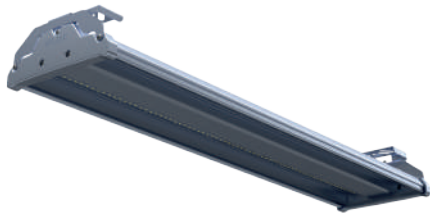
## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				•	•	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





IK 08



- High efficiency optical design (up to 160 lm/W)
- Anodized aluminum extrusion profile body
- Suitable for hygienic environments, dust-free body design
- UV protective PVC side cover
- Tempered glass with optional safety film
- High efficiency optical lens
- Optional stainless steel mounting clip

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
BERT40-PRO	WW-NW-CW	220-240V AC	35	5.075	415	2,9
BERT40-PRO	WW-NW-CW	220-240V AC	52	7.310	415	2,9
BERT80-PRO	WW-NW-CW	220-240V AC	65	10.270	815	4,8
BERT80-PRO	WW-NW-CW	220-240V AC	80	12.515	815	4,8
BERT120-PRO	WW-NW-CW	220-240V AC	90	14.310	1215	8,8
BERT120-PRO	WW-NW-CW	220-240V AC	110	17.135	1215	8,8
BERT160-PRO	WW-NW-CW	220-240V AC	134	21.010	1615	10,4

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit
- 16 Radar Sensor

## O Lens Options



M: Medium Angle  
W: Wide Angle

## J Junction Options



01: Cable

02: IP Socket

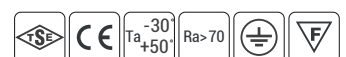
## U Upper Part Options

- T: Tempered Glass
- T+F: Tempered Glass with Safety Film



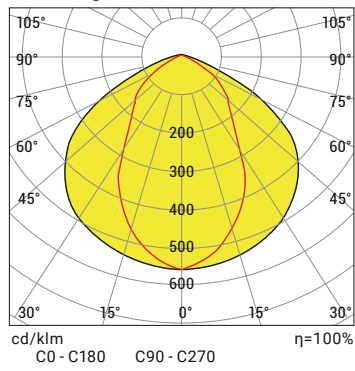
Order Code

P . W . C . S . O . J . U . M

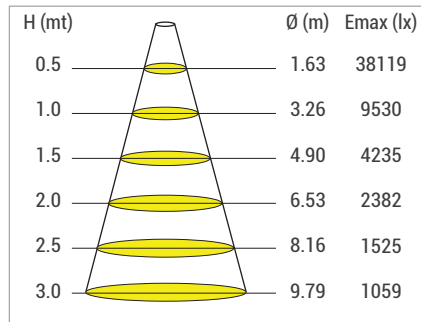


## Product Diagrams

Polar Diagram

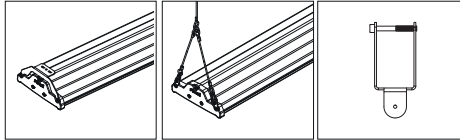


Conical Diagram



BERT120-PRO NW40 60D 110W 220VAC IP66

## M Mounting Options



**M01:** Surface  
Cable Tray  
Mounting

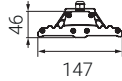
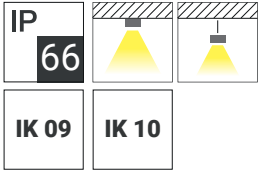
**M02:** Pendant  
Mounting

**M03:** Busbar Hanger

*\*For M02 option rope not included*

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW <span style="display: inline-block; width: 10px; height: 10px; background-color: #FFA500; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #FFFF00; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #ADD8E6; border-radius: 50%; margin-right: 5px;"></span>				•	•	



- High efficiency optical design (up to 175 lm/W)
- Anodized aluminum extrusion profile body
- Suitable for external emergency lighting kit
- Suitable for hygienic environments, dust-free body design
- UV protective PVC side cover

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
EOS45	WW-NW-CW	220-240V AC	70	11.957	480	1,4
EOS45	WW-NW-CW	220-240V AC	90	14.724	480	1,4
EOS90	WW-NW-CW	220-240V AC	110	19.232	930	2,5
EOS90	WW-NW-CW	220-240V AC	130	22.495	930	2,5
EOS90	WW-NW-CW	220-240V AC	150	24.756	930	2,5

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 3 hours

## O Lens Options



XW: Without Lens

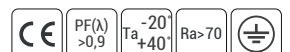
## U Top Cover Options

- 01 Diffuse Cover
- 02 Transparent Cover



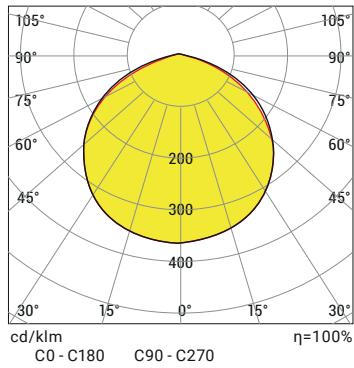
Sipariş Kodu

P . W . C . S . O . U . M

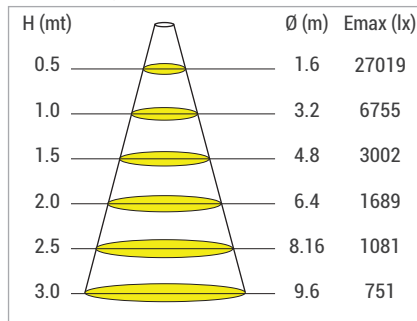


## Product Diagrams

Polar Diagram

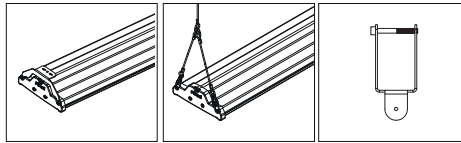


Conical Diagram



EOS-100 CW65 120D 110W 220VAC

## M Mounting Options



**M01:** Surface Cable Tray Mounting

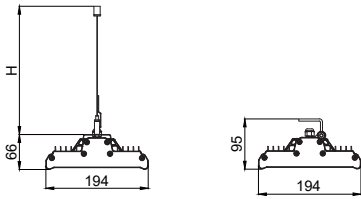
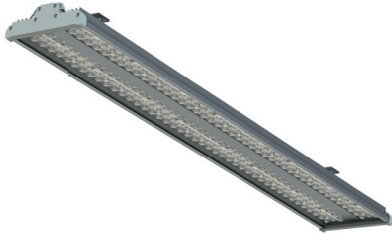
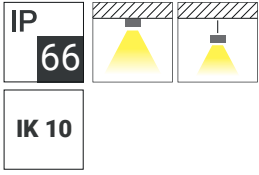
**M02:** Pendant Mounting

**M03:** Busbar Hanger

*\*For M02 option rope not included*

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW <span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border-radius: 50%;"></span>				•	•	



- High efficiency optical design (up to 155 lm/W)
- Optical options developed for special applications
- Accurate area illumination with high optical technology
- Anodized aluminum extrusion profile body
- Suitable for external emergency lighting kit
- Tempered glass with optional safety film
- UV protective PVC side cover

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
EOS-PRO90	WW-NW-CW	220-240V AC	120	17.895	890	4,5
EOS-PRO90	WW-NW-CW	220-240V AC	156	20.888	890	4,5
EOS-PRO120	WW-NW-CW	220-240V AC	172	25.962	1180	7,0
EOS-PRO120	WW-NW-CW	220-240V AC	190	28.007	1180	7,0
EOS-PRO150	WW-NW-CW	220-240V AC	206	31.825	1460	8,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 3 hours

## O Lens Options

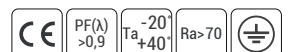


N: Narrow Angle    M: Medium Angle    W: Wide Angle    E: Elliptical Angle    OAS: Double Asymmetrical Angle



Sipariş Kodu

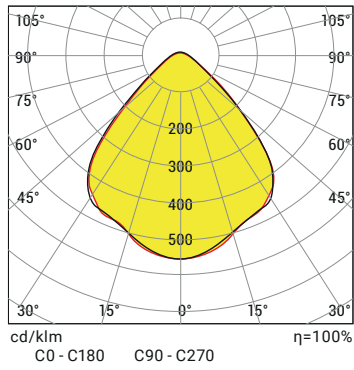
P . W . C . S . O . M



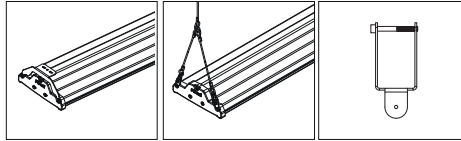


## Product Diagrams

Polar Diagram



## M Mounting Options



**M01:** Surface Cable Tray Mounting

**M02:** Pendant Mounting

**M03:** Busbar Hanger

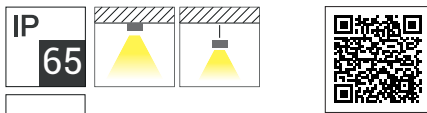
*\*For M02 option rope not included*

## Control System Options

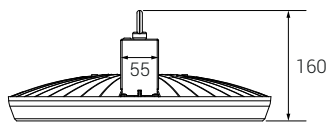
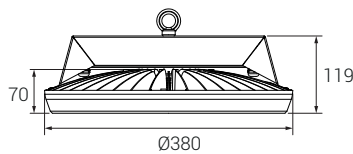
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW <span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border-radius: 50%; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border-radius: 50%; margin-right: 5px;"></span>				•	•	

# High Bay LED Luminaire

# AY380 TECO



IP 65  
IK 08



- Electrostatic painted aluminum injection body
- High efficiency group lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AY380-TECO	WW-NW-CW	220-240V AC	60	7.800	3,5
AY380-TECO	WW-NW-CW	220-240V AC	80	10.400	3,5
AY380-TECO	WW-NW-CW	220-240V AC	100	13.000	3,6

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



M: Medium Angle  
W: Wide Angle

## G Housing Color Options



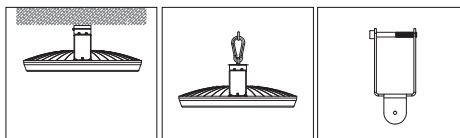
RAL9005 RAL9007 RAL9016

## J Junction Options



01: Cable 02: IP67 Socket

## M Mounting Options



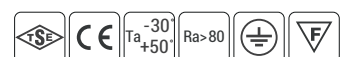
M01: Surface Cable Tray Mounting  
M02: Pendant Mounting  
M03: Busbar Hanger

\*For M02 option rope not included



Order Code

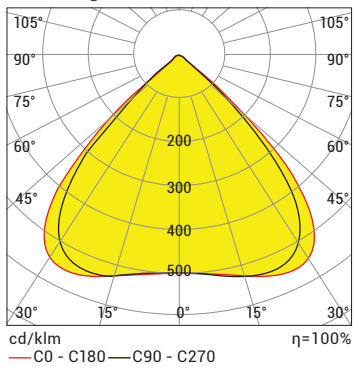
P . W . C . S . O . G . J . M



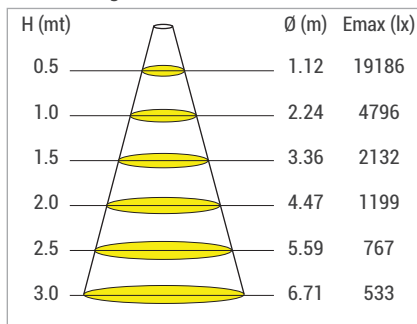
Please contact our sales representatives for special application requests other than the standard product.

## Product Diagrams

Polar Diagram



Conical Diagram

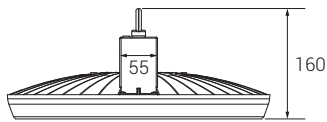
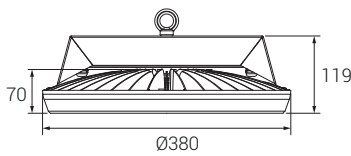
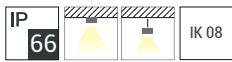


AY380-TECO CW50 90D 80W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic painted aluminum injection body
- High efficiency group lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AY380-PRO	WW-NW-CW	220-240V AC	100	16.000	3,6
AY380-PRO	WW-NW-CW	220-240V AC	125	20.000	3,7
AY380-PRO	WW-NW-CW	220-240V AC	150	24.000	3,7
AY380-PRO	WW-NW-CW	220-240V AC	180	27.000	3,9

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

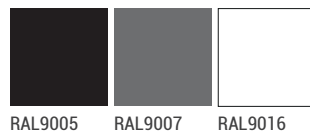
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



- M: Medium Angle
- W: Wide Angle

## G Housing Color Options



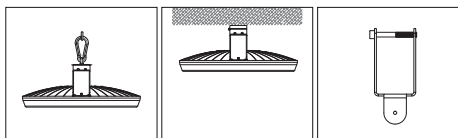
RAL9005 RAL9007 RAL9016

## J Junction Options



01: Cable 02: IP67 Socket

## M Mounting Options



25: Pendant Mounting

\*For 25 option rope not included

26: Surface Cable Tray Mounting

36: Busbar Hanger



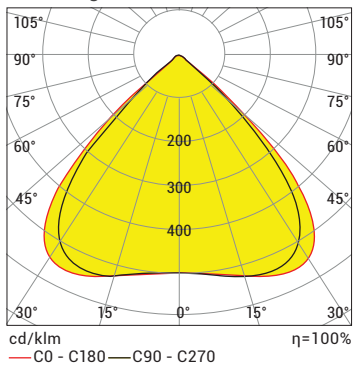
Order Code

P . W . C . S . O . G . J . M

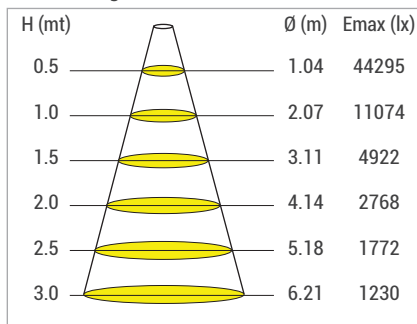


## Product Diagrams

Polar Diagram



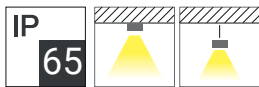
Conical Diagram



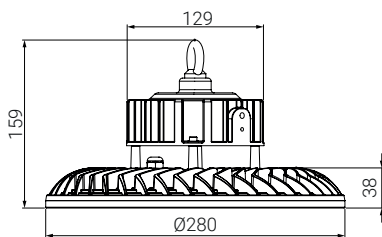
AY380 CW50 90D 150W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



IK 08



- With overload, high temperature, high voltage protection industrial type led driver
- Efficiency up to 174 lm / W
- Electrostatic painted aluminum injection body
- Optional stainless steel mounting clip and hanger kit

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CRAKE 1	WW-NW-CW	220-240V AC	70	12.047	2,2
CRAKE 1	WW-NW-CW	220-240V AC	110	17.730	2,2

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

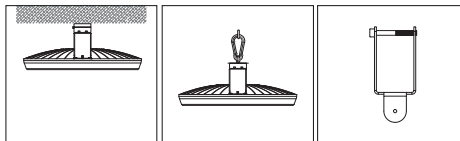
- 01 Standard Driver
- 06 Driver + Emergency Lighting Kit
- 16 Radar Sensor
- 23 0-10V

## O Lens Options



M: Medium Angle    W: Wide Angle    XW: Without lens

## M Mounting Options



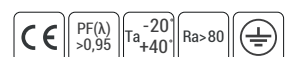
**M01:** Surface Cable Tray Mounting    **M02:** Pendant Mounting    **M03:** Busbar Hanger

\*For M02 option rope not included



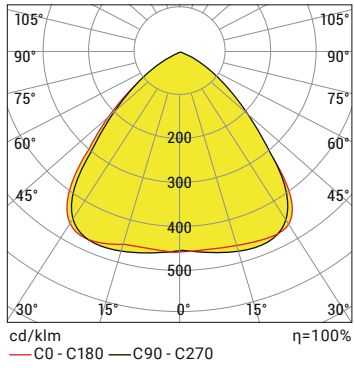
Order Code

P . W . C . S . O . M

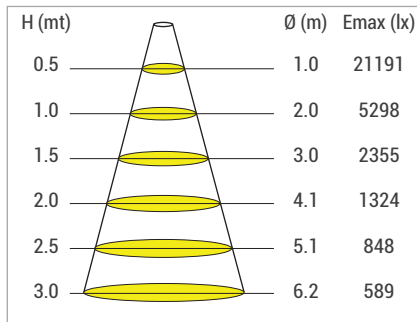


## Product Diagrams

Polar Diagram



Conical Diagram



CRAKE-1 CW65 90D 72W 220VAC IP65

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



LL

DP

CD

WW

CG

CS

CF

AC

CB

HB

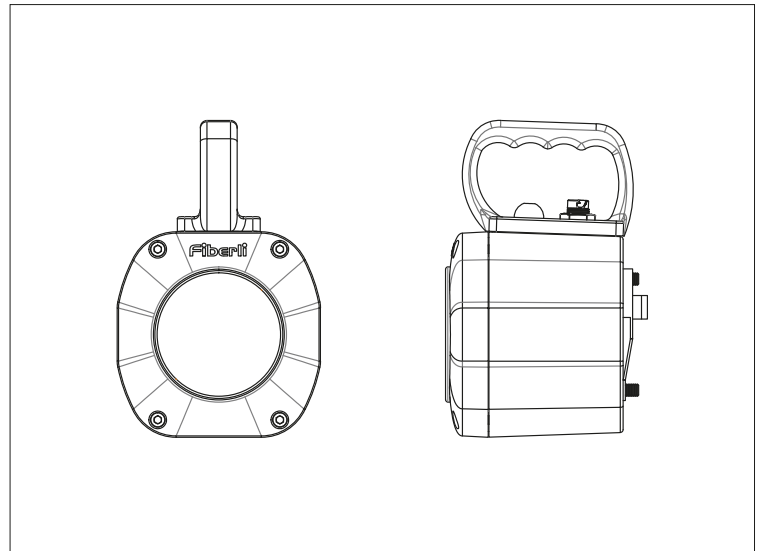
**MM**

RDMX

LC

FO

EL

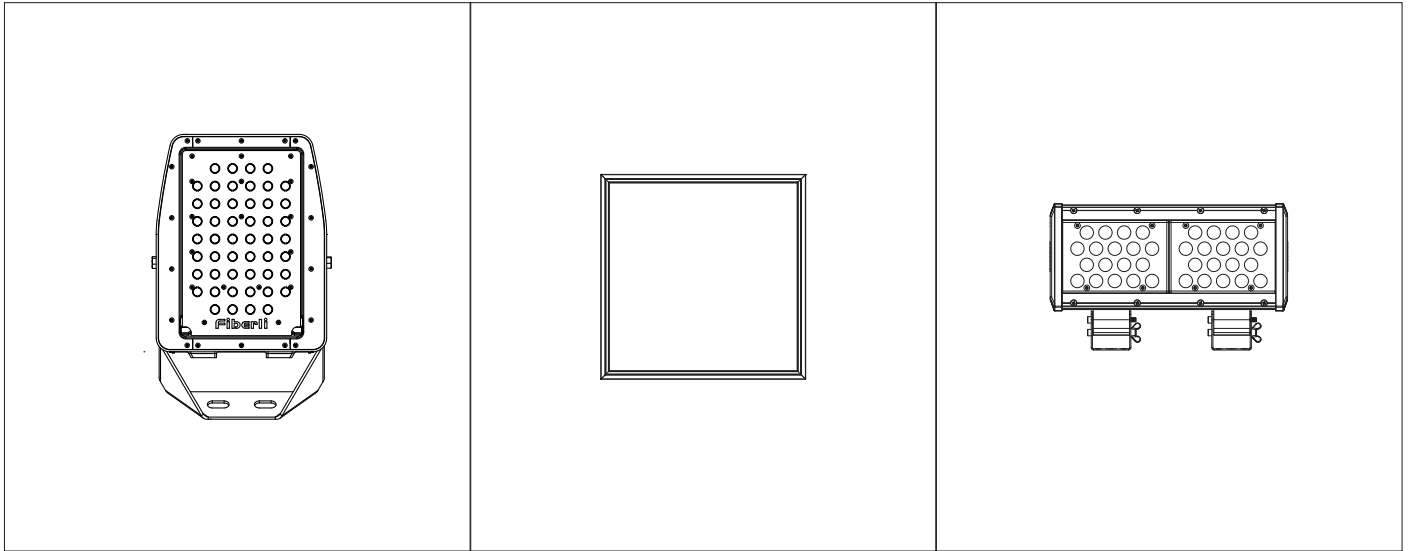


## Military Marine

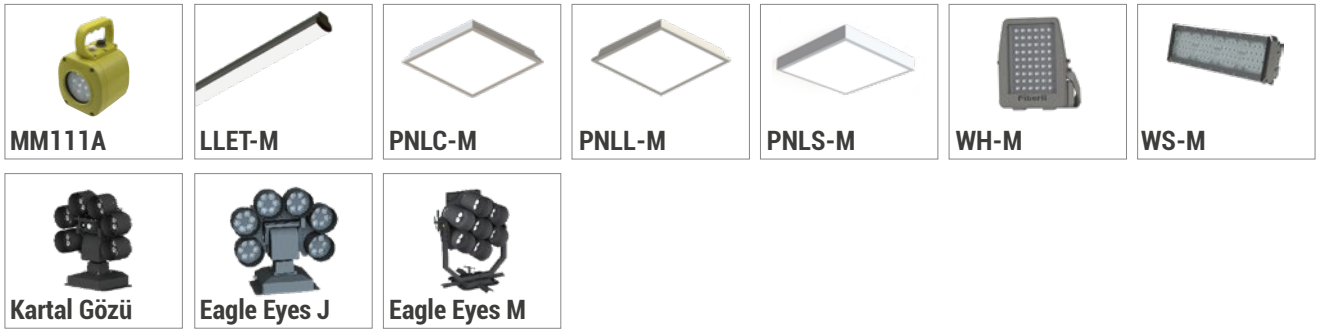
Our marine group offers solutions with a wide range of products designed according to the special needs of ship, yacht and marina areas. We can fully respond to your projects with our fixed general lighting products and rechargeable portable luminaires. Our products are entitled to receive Turk Lloyd certificate after their tests under special conditions. Our special concept products produced according to military standards in line with the demands of the defense industry also offer innovative solutions.



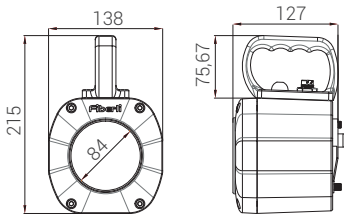
# Military Marine



## Military Marine - Marine & Military Lighting



IP	12m	IK 10
68	36 hours	



- IK10 resistance with 10mm polycarbonate glass
- High quality compressed halogen free plastic injection body
- Safe assembly and disassembly with IP68 socket chargers
- Stainless steel connection parts
- Can be used fixed and portable
- Operates at 100-240V AC 50-60Hz
- Battery: 3.6 V, 4000 mAh Ni-MH
- 24-hour battery charge time
- Can operate under water for 10 hours at a depth of 10 meters
- Flashlight mode has 3 different working modes as minimum, maximum light output and SOS signal
- Flashlight mode has a working time of 20 hours in minimum and SOS functions and 8 hours in maximum function
- In modernization works, welding process is not required for mounting the hanger part to the wing
- Body color RAL 1028

## STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
MM111A	WW-NW-CW	100-240V AC	5	254	1,8

\*For the min and max functions of flashlight mode

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

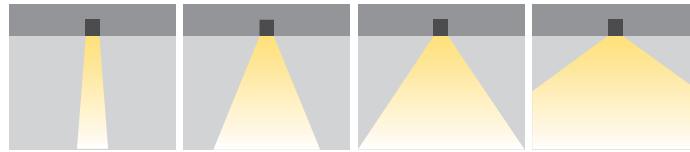
\*Different colors are optional

## System Options

20: min.20 hours

36: min.36 hours

## O Lens Seçenekleri



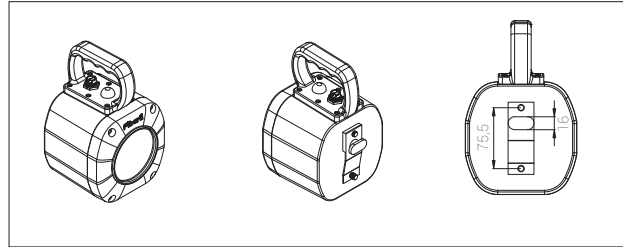
XN: Extra Narrow Angle

M: Medium Angle

W: Wide Angle

XW: Without lens

## Mounting



## 200cm IP68 Charging Cable

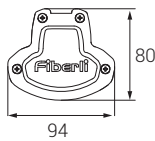
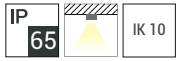


Order Code

P . W . C . O







- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Suitable for surface mounting

### STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLET30-M	WW-NW-CW	100V-240 AC	12	1.100	300	0,9
LLET60-M	WW-NW-CW	100V-240 AC	15	1.650	600	1,5
LLET60-M	WW-NW-CW	100V-240 AC	22	2.420	600	1,5
LLET120-M	WW-NW-CW	100V-240 AC	29	3.200	1200	2,8
LLET120-M	WW-NW-CW	100V-240 AC	42	4.620	1200	2,8
LLET160-M	WW-NW-CW	100V-240 AC	55	6.380	1600	3,8
LLET160-M	WW-NW-CW	100V-240 AC	85	9.570	1600	3,8

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h
- 16 Radar Sensor

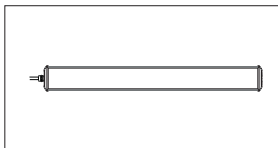
## J Junction Options



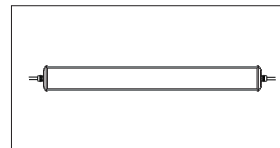
01: Cable

02: IP Socket

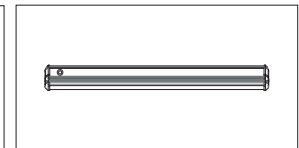
## K Cable Direction Options



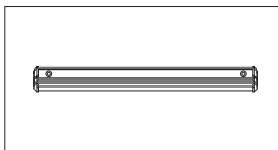
01: Single Entry



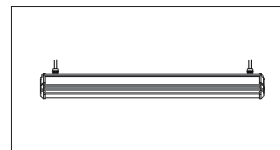
03: Dual end exit and entry



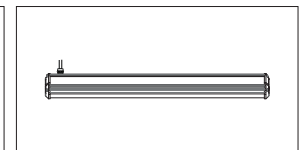
07: Front end entry



12: Dual front end exit and entry



02\*\*: Dual bottom front end exit and entry



04\*\*: Single bottom end exit and entry

\*\*Only for pendant models.



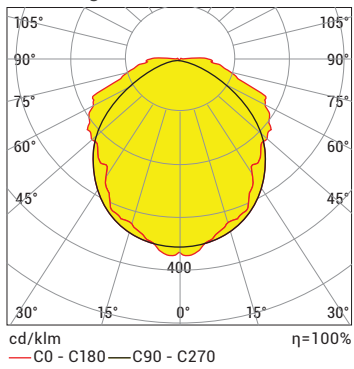
### Order Code

P . W . C . S . J . K . U . M



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	$\emptyset$ (m)	Emax (lx)
0.5	1,86	14114
1.0	3,73	3528
1.5	5,59	1568
2.0	7,46	882
2.5	9,32	565
3.0	11,19	392

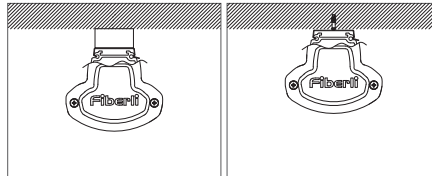
LLET 160 CW 120D 85W 220V AC IP66 TRA. COVER

## U Upper Cover Options



01: Diffused 02: Transparent

## M Mounting Options

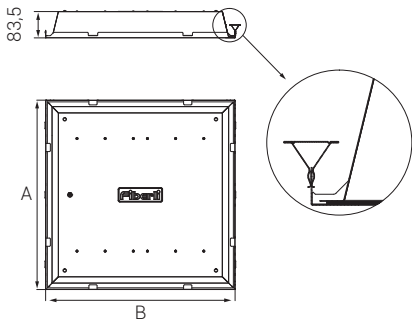


25: Pendant mount 26: Surface mount

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic painted steel body
- Electrostatic painted steel frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)
- Operates at 50/60Hz

### STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (Ax B) (mm)	Weight (kg)
PNLCLIPIN-3030-M	WW-NW-CW	100-240V AC	15	1.353	300x300	1,1
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	26	3.507	600x600	3,2
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	3,2
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	38	4.843	600x600	3,2

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

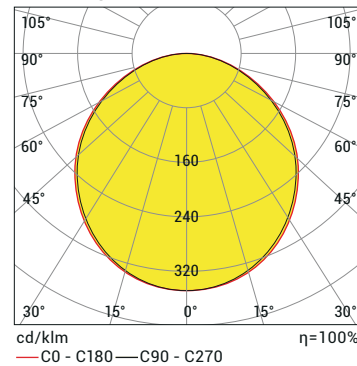
\*Different colors are optional

## S Driver Options

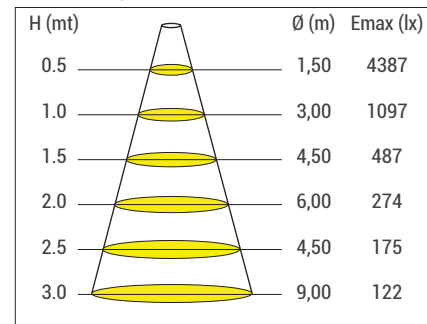
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## Product Diagrams

Polar Diagram



Conical Diagram



PANEL CLIP IN 60x60 CW 120D 30W 220V AC IP40

## Control System Options

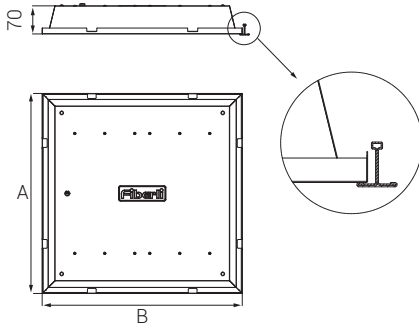
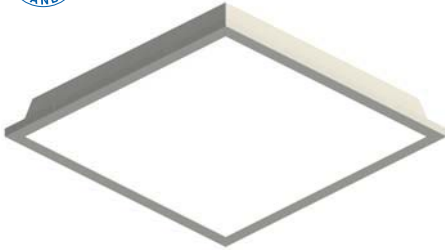
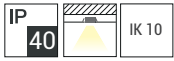
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	●
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P W C S





- Electrostatic painted steel body
- Electrostatic painted steel frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)
- Operates at 50/60Hz

### STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLLAYON-3030-M	WW-NW-CW	100-240V AC	15	1.353	300x300	1,1
PNLLAYON-3060-M	WW-NW-CW	100-240V AC	22	2.300	300x600	2,0
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	26	3.507	600x600	3,2
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	3,2
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	38	4.843	600x600	3,2
PNLLAYON-30120-M	WW-NW-CW	100-240V AC	38	4.446	300x1200	3,3

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

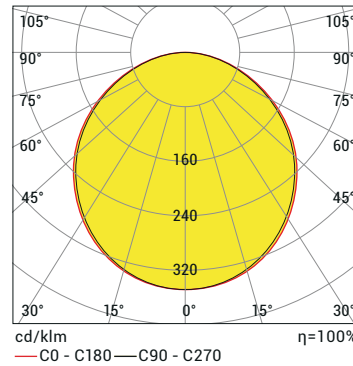
\*Different colors are optional

## S Driver Options

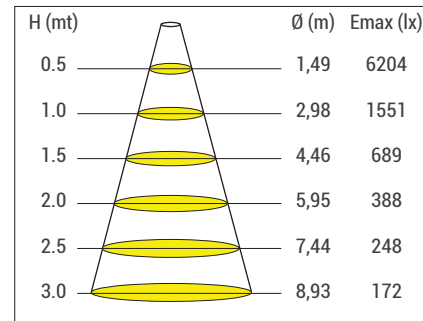
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

## Product Diagrams

Polar Diagram



Conical Diagram



PANEL LAY ON 60x60 CW 120D 43W 220V AC IP40

## Control System Options

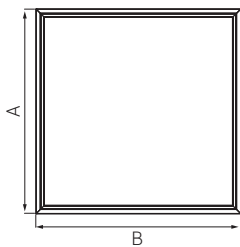
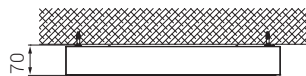
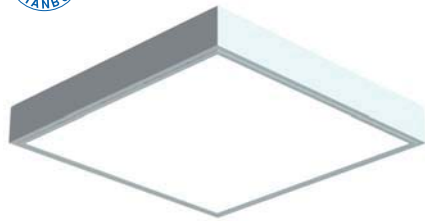
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	●
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P W C S





- Electrostatic painted steel body
- Electrostatic painted aluminium frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for surface mount
- Operates at 50/60Hz

### STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLSURFACE-3030-M	WW-NW-CW	100-240V AC	15	1.014	300x300	1,3
PNLSURFACE-3060-M	WW-NW-CW	100-240V AC	22	1.978	300x600	2,4
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	30	3.160	600x600	4,0
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	4,0
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	42	4.236	600x600	4,0
PNLSURFACE-30120-M	WW-NW-CW	100-240V AC	42	4.450	300x1200	4,2
PNLSURFACE-60120-M	WW-NW-CW	100-240V AC	86	8.780	600x1200	7,5

\*Power and Lumen values provided are based off of a cold white (CW) LED.

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

\*Different colors are optional

## S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h



Order Code

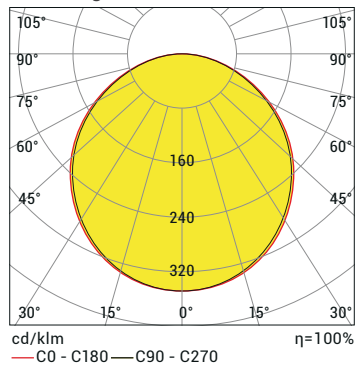
P . W . C . S



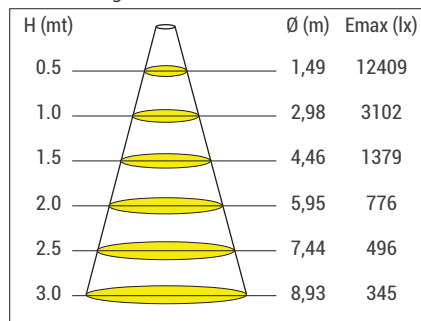


## Product Diagrams

Polar Diagram



Conical Diagram

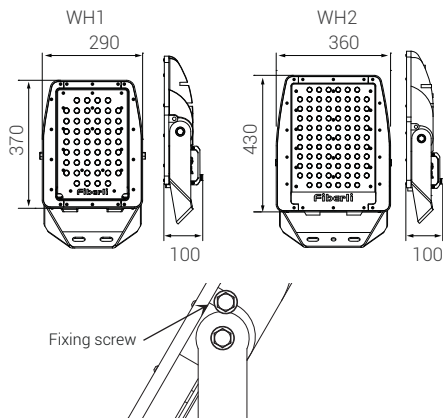


PANEL SURFACE 60x120 CW 120D 86W 220V AC IP40

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated, aluminum injection housing and DKP metal sheet stand
- 3 mm Polycarbonate or tempered luminaire glass
- Aluminum injection end caps
- Stainless connectors

## STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH136-M	WW-NW-CW	100-240V AC	42	5.200	7,5
WH136-M	WW-NW-CW	100-240V AC	65	7.600	7,7
WH148-M	WW-NW-CW	100-240V AC	85	9.950	7,7
WH148-M	WW-NW-CW	100-240V AC	120	14.500	7,9
WH154-M	WW-NW-CW	100-240V AC	130	16.200	7,9
WH260-M	WW-NW-CW	100-240V AC	150	18.000	10,3
WH284-M	WW-NW-CW	100-240V AC	210	25.500	10,7

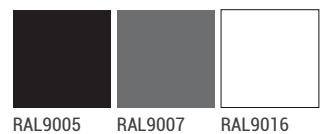
\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

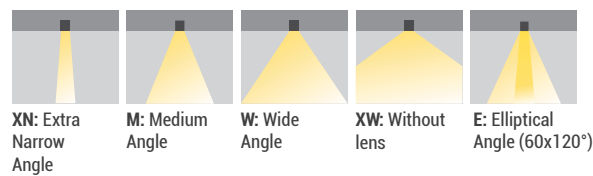
● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

\*Different colors are optional

## G Housing Color Options



## O Lens Options



## J Junction Options



## M Mounting Options

Stand connector

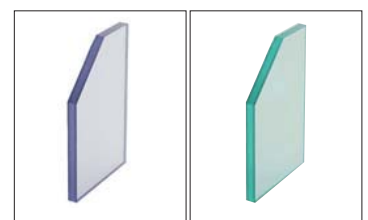


20: Standard Stand

21: Direct mounting kit ( optional)

Extension pieces at any desired length are optional

## U Upper Piece Options



03: Polycarbonate glass

04: Tempered glass



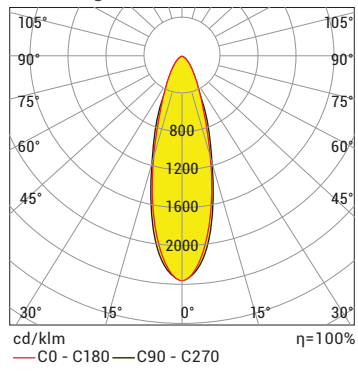
Order Code

P . W . C . G . O . J . M . U

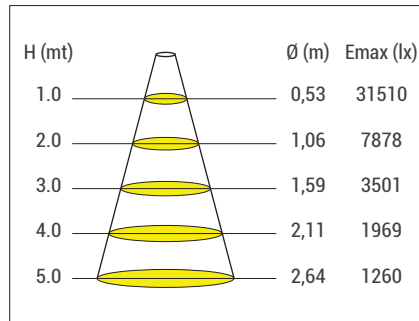


## Product Diagrams

Polar Diagram

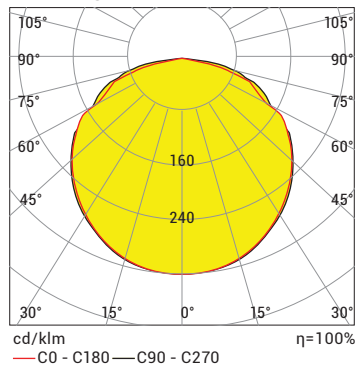


Conical Diagram

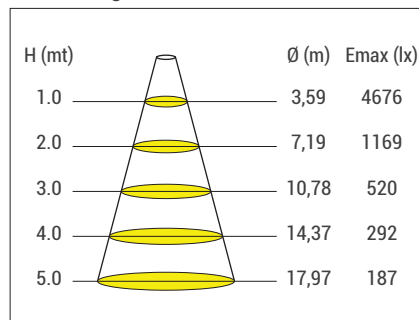


WH154 CW 25D 135W 220V AC IP66

Polar Diagram





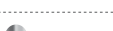



Conical Diagram

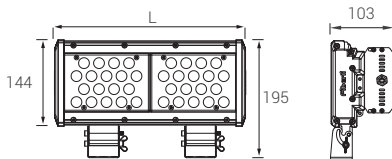


WH154 CW 120D 135W 220V AC

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						





- Min. 20 micron anodized aluminum extruded profile
- Stainless chrome fixture stand
- Polycarbonate luminaire glass
- Electrostatic powder coated, aluminum injection end cap
- High efficiency group lens

### STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS118-M	WW-NW-CW	100-240V AC	22	2.399	170	1,8
WS236-M	WW-NW-CW	100-240V AC	42	4.894	320	2,9
WS354-M	WW-NW-CW	100-240V AC	62	8.155	480	4,3
WS336-M	WW-NW-CW	100-240V AC	90	8.642	480	4,3
WS472-M	WW-NW-CW	100-240V AC	85	11.145	610	5,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
	● A: Amber 590nm

\*Different colors are optional

## O Lens Options



N: Narrow Angle    M: Medium Angle    W: Wide Angle    XW: Without lens

## J Junction Options



01: Cable    02: IP67 Socket



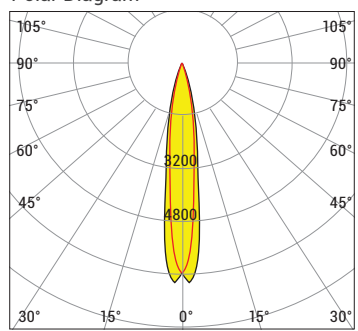
### Order Code

P . W . C . O . J . M



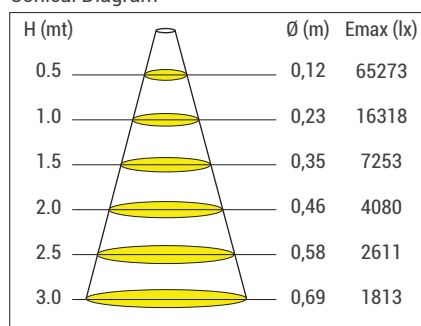
## Product Diagrams

Polar Diagram



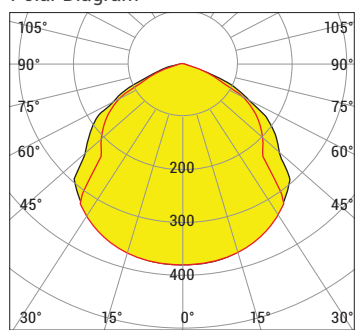
cd/klm  $\eta=100\%$   
 — C0 - C180 — C90 - C270

Conical Diagram



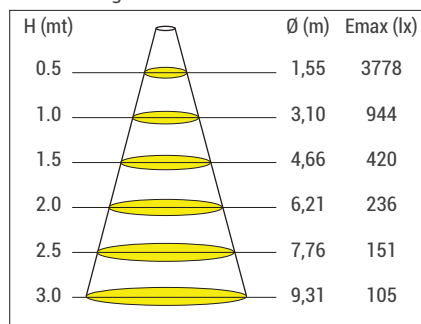
WS118 CW 10D 22W 220V AC IP66

Polar Diagram



cd/klm  $\eta=100\%$   
 — C0 - C180 — C90 - C270

Conical Diagram



WS118 CW 120D 22W 220V AC IP66

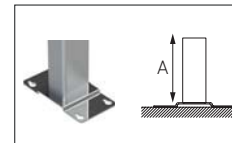
## M Mounting Options



20: Standard Stand

21: Standard stand/  
Mounting kit

## Optional Accessories



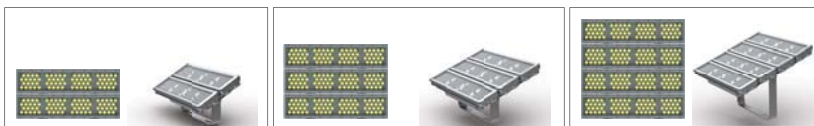
34: Extension piece A=5cm

35: Extension piece A=10cm

36: Extension piece A=20cm

Extension pieces at any desired length are optional

## Additional Pieces Options



Dual Assembly

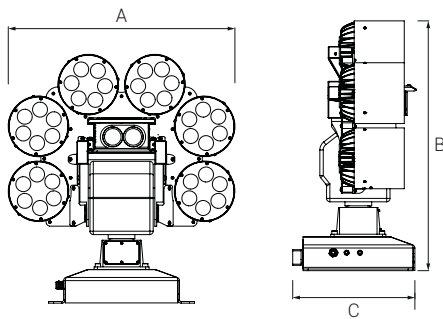
Triple Assembly

Quaterd Assembly

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





Border lighting projector.  
High performance durable design for security lighting. Suitable combinations can be provided with different lenses.

- Stainless fittings
- Electrostatic powder coated aluminum injection body, aluminum, DKP and chrome laser cutting with special formed sheet metal parts
- Panel lock drawer type panel box
- Product top open and close main switch
- 10kV lightning protection circuit
- The product is left and right, completely endless tour It can move 40°, up 75°.

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
KG.400	Border lighting	220-240V AC	400	40.000	680x747x365mm

Name | 32X Optical Zoom 2.1MP HD Network Integrated Module

### LENS

Optical Zoom	32X Optical Zoom
Focal Length	f4.5 ~ 144mm
IRIS Range	Fw1.6 ~ Ft4.8
FoV (D*H*V)	Wide: 67.8° x 59.8° x 40.5° Tele: 2.77° x 2.34° x 1.48°
MOD	1M(wide) ~ 1.5M(tele)
Zoom Speed	≤3s

### CAMERA

Image Sensor	1/2.8"2.13MP Sony Progressive scanning CMOS
Min. Illumination	Color 0.05Lux @(F1.6, AGC ON), ICR ON B/W 0.02Lux @(F1.6, AGC ON), ICR OFF
Electronic Shutter	1/10000s to 1/25s
Day and Night	Automatic day and night type infrared filter switching mechanism
SNR	> 52 dB
Synchronizing System	Internal synchronization

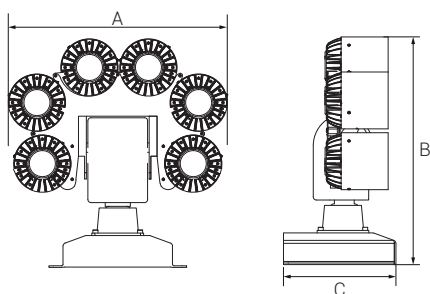
### COMPRESSION

Video Compression	H.264 BP/MP/HP, MJPEG
Max. Resolution	Full HD/1080P (1920x1080) + Full D1 (720x480)
Horizontal Resolution	>1000 TVL (1920x1080pixels)
Multi-streams	1080P + Full D1
Video Bit Rate	32Kbps ~ 8Mbps, under all resolutions, it can in full frame rate simultaneously output multi-channel video streams, frame speed and frame rate are adjustable, H.264 support VBR/CBR
Frame Rate	25/30fps
Audio Compression	G.711 / ACC / MP2

### FUNCTIONS

Focus Mode	Auto Focus, ZF (zoom trigger AF) Manual Focus
Exposure Control	Auto, Manual, prior (shutter or Max AGC), brightness
Exposure Mode	Auto, centre exposure, Global exposure, Manually area
Exposure Compensation	5 levels adjustable
White Balance Gain	Auto, scenes (incandescent lamp, fluorescent lamp, daylight, flash, etc) Manual Auto, threshold value control
BLC	OFF/ON
Strong Light Inhibition	OFF/ON
WDR	dWDR, Auto/I/II/III
Noise Reduction	3D/MCTF digital noise reduction
Day and Night Mode	Auto/Color/BW





Joystick controlled border lighting projector  
High performance durable design for security lighting

- Minimum 5lx light level at the center point at a distance of 1,000 meters
- 360° horizontal axis, 40° down and 75° upward movement capability
- 250mm long light refractor that provides glare control
- Providing appropriate combination with different lenses
- 10kV surge protection circuit
- Electrostatic powder coated aluminum injection body
- Aluminum, DKP and chrome sheet metal parts specially shaped by laser cutting
- Stainless fittings
- Drawer type locked panel box
- Glass cone shaped light collector
- Stabilizing feet providing safe installation and usage

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
EAGLE-EYES-J	Border lighting	220-240V AC	400	40.000	696x727x358mm

Tilt Range : -75° ~ +40°  
Pan Speed : 0.01 ~ 60°/s  
Pan Range : 0 ~ 360° continuous  
Tilt Speed : 0.01 ~ 30°/s  
Communication : RS-485 / RS-422

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

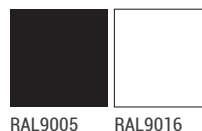
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

## G Housing Color Options

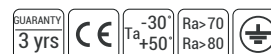


RAL9005 RAL9016



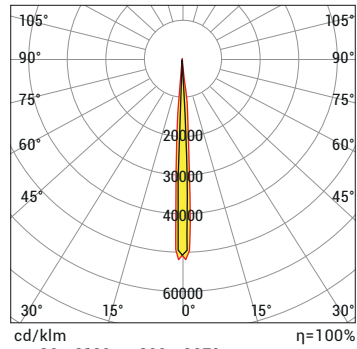
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram

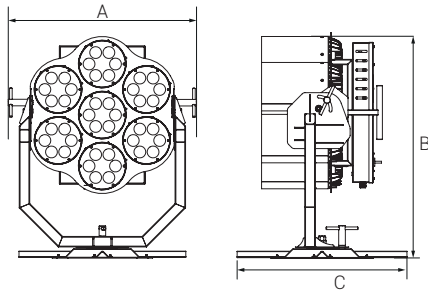


EAGLE-EYES-J NW40 5D 400W 220VAC IP66

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•		
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							





Manually controlled border lighting projector  
High performance durable design for security lighting

- Minimum 5lx light level at the center point at a distance of 1,000 meters
- 180° horizontal axis, 35° down and 35° upward movement capability
- 250mm long light refractor that provides glare control
- Providing appropriate combination with different lenses
- 10kV surge protection circuit
- Electrostatic powder coated aluminum injection body
- Aluminum, DKP and chrome sheet metal parts specially shaped by laser cutting
- Stainless fittings
- Drawer type locked panel box
- Glass cone shaped light collector
- Stabilizing feet providing safe installation and usage

## P W Product & Power Options

Product Name	Explanation	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxC)
EAGLE-EYES-M	Border lighting	220-240V AC	380	40.000	720x847x637mm

Tilt Range : -35 ° ~ +35 °

Pan Range : -90 ° ~ +90 °

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## S Driver Options

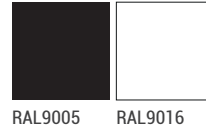
- 01 Standard Driver
- 06 DALI Driver

## O Lens Options



XN: Extra Narrow Angle

## G Housing Color Options

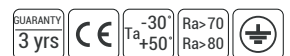


RAL9005 RAL9016



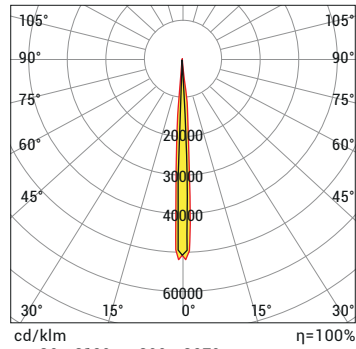
Order Code

P . W . C . S . O . G



## Product Diagrams

Polar Diagram



EAGLE-EYES-M NW40 5D 400W 220VAC IP66

## Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•		
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							



# RDM/DMX & Animation Lighting

LL

DP

CD

WW

CG

CS

CF

AC

CB

HB

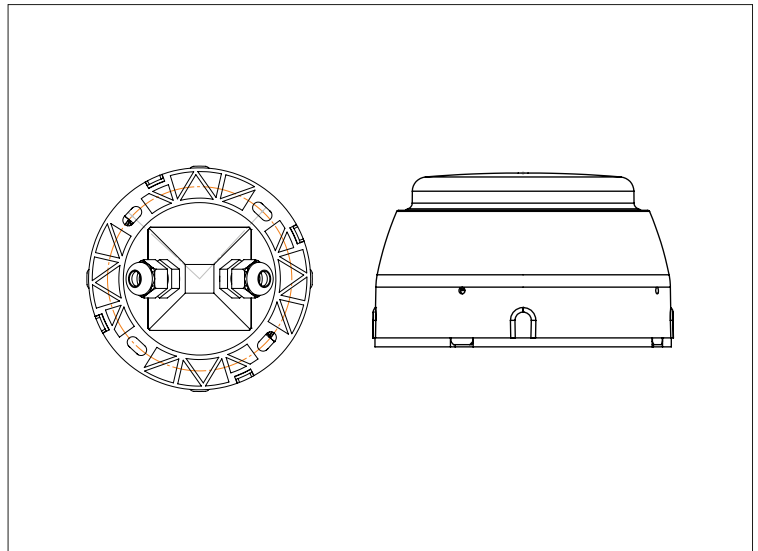
MM

**RDMX**

LC

FO

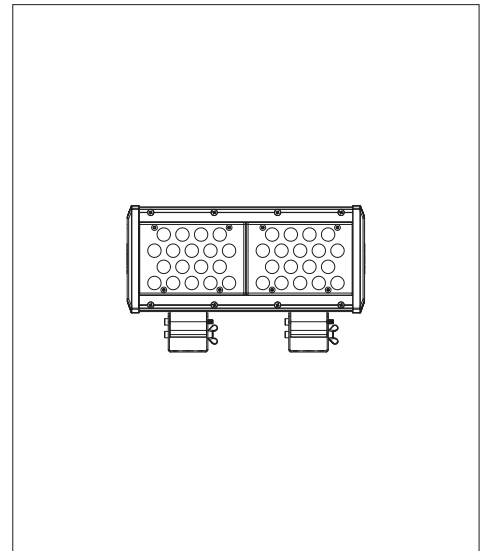
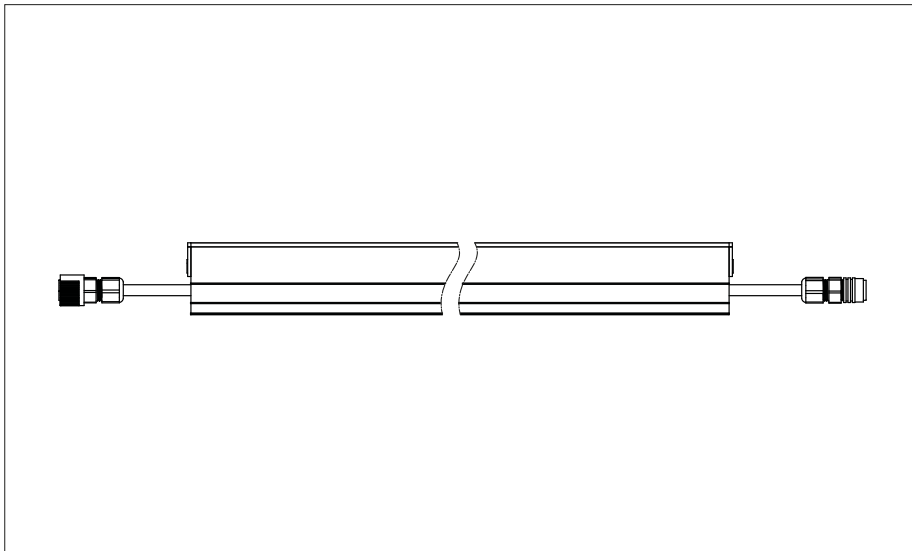
EL



## **RDMX**

Fiberli, one of the leading manufacturers of facade lighting, offers a wide product range with its new category with RDM protocol. In addition to the linear or facade lighting solutions such as hotels, business centers, malls, it also develops the animation lighting category with recessed fixtures. The RDM protocol, which provides data transfer from the device to the system, can record the operating statistics and malfunction data of the products in the field. Fast color transition brings a new dimension to lighting design with impressive RGB color applications on the facades

# RDM/DMX & Animation Lighting



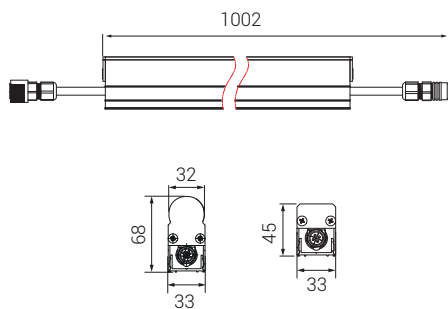
## RDMX - RDM/DMX & Animation Lighting



IP 66 15-48V DC



**RDMX**



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- UV protective, diffused front cover
- Cooling capacity up to 36W/m
- Suitable for surface mounting
- Each piece can be produced at a max. length of 4 m
- RDMX configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Model	Light Color	Input Voltage (V)	Power (W)	Dimension (mm)	LED Quantity (pcs)	Pixel Pitch (cm)
LL-RDMX-10-4X2,5	RGB	15-48V DC	2	102	4	4x2,5
LL-RDMX-50-4X2,5	RGB	15-48V DC	6	502	20	4x2,5
LL-RDMX-100-4X2,5	RGB	15-48V DC	11	1002	40	4x2,5
LL-RDMX-150-4X2,5	RGB	15-48V DC	16	1502	60	4x2,5

## U Upper Piece Options

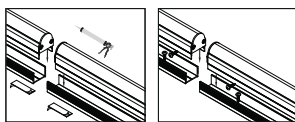


01: Diffuse cover

02: Flat Diffuse cover

03: Flat Polymer cover

## M Mounting Options



02: Silicone Double sided tape

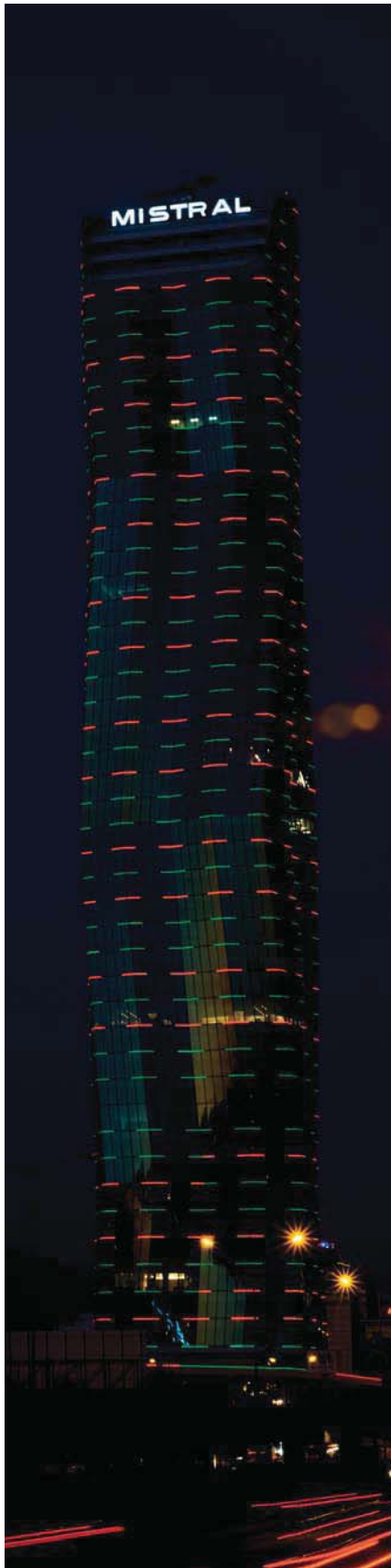
14: Screw mounting



Order Code

P . W . U . M



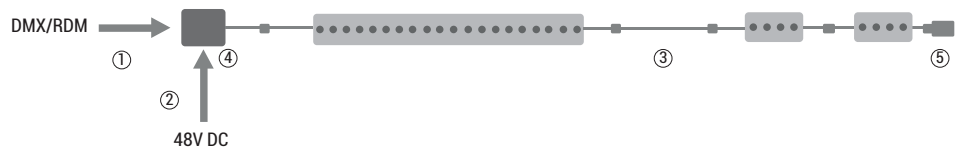


Mistral Tower, İzmir

## Standard Connection Scheme

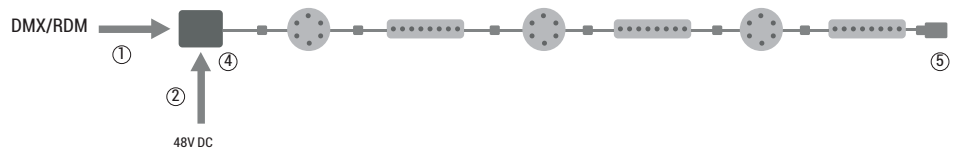


## Connection Scheme with Extension Socket



## Combined Model Connection Scheme

DOT-RDMX-xx and LL-RDMX-xxx can be grouped together by DOT/LL combined chain model



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600695 :RDMX INPUT  
JUNCTION BOX



(5) 33600696 : RDMX  
TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

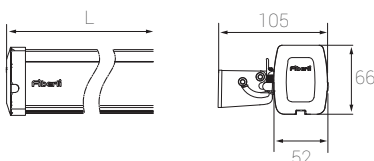
26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



**RDMX**



- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WL109-RDMX	RGB	220-240V AC	12	380	1,0
WL218-RDMX	RGB	220-240V AC	23	619	1,5
WL327-RDMX	RGB	220-240V AC	34	909	2,4
WL436-RDMX	RGB	220-240V AC	45	1199	2,9
WL112-RDMX	RGBW/A	220-240V AC	16	380	1,0
WL224-RDMX	RGBW/A	220-240V AC	31	619	1,5
WL336-RDMX	RGBW/A	220-240V AC	45	909	2,4
WL448-RDMX	RGBW/A	220-240V AC	60	1199	2,9

## O Lens Options



**XN:** Extra Narrow Angle  
**N:** Narrow Angle  
**M:** Medium Angle  
**W:** Wide Angle  
**E:** Elliptical Angle

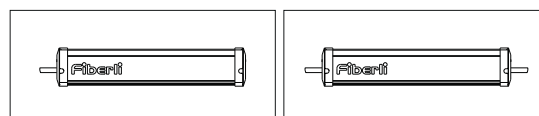
## J Junction Options



**01:** Cable      **02:** IP67 Socket

Only 220V

## K Cable Direction Options

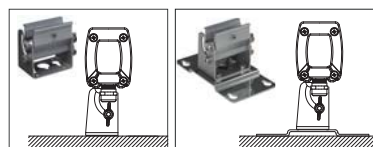


**01:** Single entry      **03:** Dual entry and exit \*

\*Only for energy cable

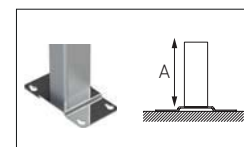
## M Mounting Options

Stand connector



**20:** Standard Stand      **21:** Standard stand/ Mounting kit

Optional Accessories



**34:** Extension piece A=5cm  
**35:** Extension piece A=10cm  
**36:** Extension piece A=20cm

Extension pieces at any desired length are optional



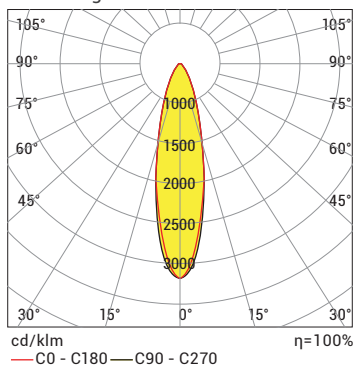
Order Code

P . W . O . J . K . M

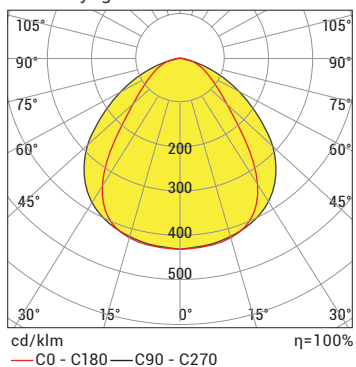


## Product Diagrams

Polar Diagram



Polar Diyagramı



## Connecting fittings



## Additional Pieces Options



## Dual assembly



## Ternary assembly

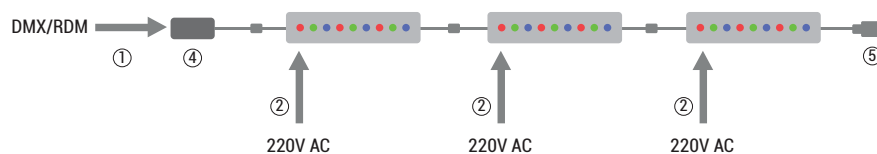


## Quaternary assembly

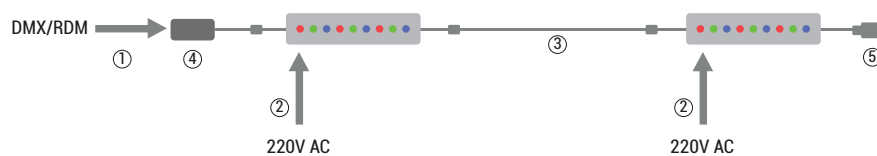




## Standard Connection Scheme



## Connection Scheme with Extension Socket



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600755 : RDMX INPUT JOINT



(5) 33600696 : RDMX TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

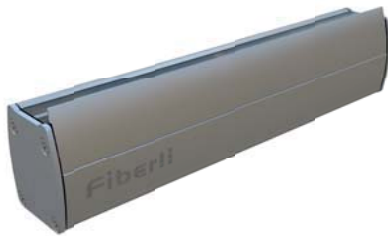
26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



Limak Hotel, Antalya



**RDMX**



- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WLT109-RDMX	RGB	220-240V AC	12	360	1,0
WLT218-RDMX	RGB	220-240V AC	23	600	1,5
WLT327-RDMX	RGB	220-240V AC	34	900	2,4
WLT436-RDMX	RGB	220-240V AC	45	1190	2,9
WLT112-RDMX	RGBW/A	220-240V AC	16	360	1,0
WLT224-RDMX	RGBW/A	220-240V AC	31	600	1,5
WLT336-RDMX	RGBW/A	220-240V AC	45	900	2,4
WLT448-RDMX	RGBW/A	220-240V AC	60	1190	2,9

## O Lens Options



**XN:** Extra Narrow Angle  
**N:** Narrow Angle  
**M:** Medium Angle  
**W:** Wide Angle  
**E:** Elliptical Angle

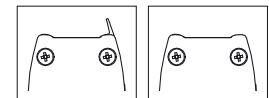
## J Junction Options



**01:** Cable      **02:** IP67 Socket

Only 220V

## U Upper Cover Options



**With Glare Shield**      **Without Glare Shield**

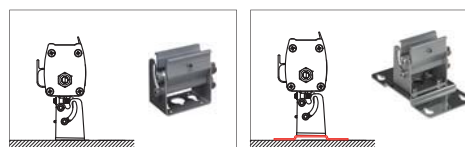
## K Cable Direction Options



**01:** Single entry      **03:** Dual entry and exit

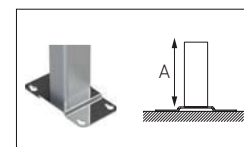
\*Only for energy cable

## M Mounting Options



**20:** Standard Stand      **21:** Standard stand/Mounting kit

## Optional Accessories



**34:** Extension piece A=5cm  
**35:** Extension piece A=10cm  
**36:** Extension piece A=20cm

Extension pieces at any desired length are optional



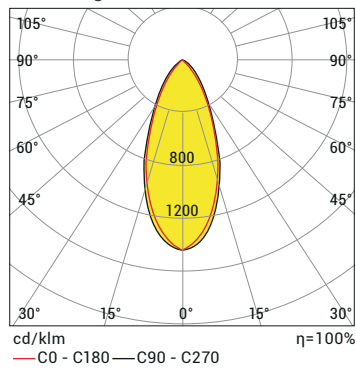
Order Code

P . W . O . J . U . K . M

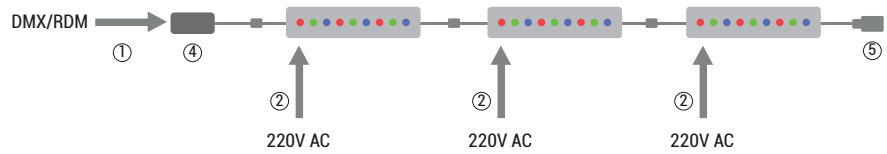


## Product Diagrams

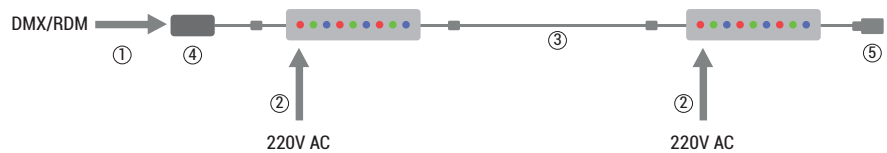
Polar Diagram



## Standard Connection Scheme



## Connection Scheme with Extension Socket



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600755: RDMX INPUT JOINT



(5) 33600696 : RDMX TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

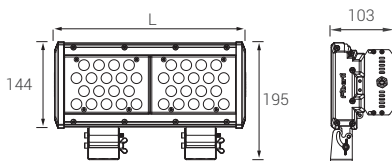
26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



**RDMX**



- Anodized aluminum extruded profile
- Electrostatic powder coated, aluminum injection end cap
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- High efficiency group lens
- IP68 air vent
- RDM configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WS236-RDMX	RGB	220-240V AC	45	320	2,9
WS354-RDMX	RGB	220-240V AC	67	477	4,3
WS472-RDMX	RGB	220-240V AC	89	609	5,3
WS232-RDMX	RGBW/A	220-240V AC	59	320	2,9
WS348-RDMX	RGBW/A	220-240V AC	88	477	4,3
WS464-RDMX	RGBW/A	220-240V AC	117	609	5,3

\*Power and Lumen values provided are based off of a "cold white (CW) LED".

## O Lens Options



N: Narrow Angle    M: Medium Angle    W: Wide Angle

## J Junction Options



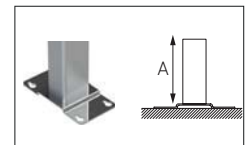
01: Cable    02: IP67 Socket

## M Mounting Options



20: Standard Stand    21: Standard stand/ Mounting kit

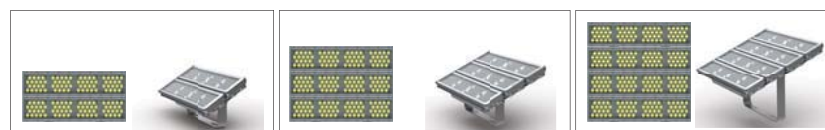
## Optional Accessories



34: Extension piece A=5cm  
35: Extension piece A=10cm  
36: Extension piece A=20cm

Extension pieces at any desired length are optional

## Additional Pieces Options



Dual Assembly

Triple Assembly

Quaterd Assembly



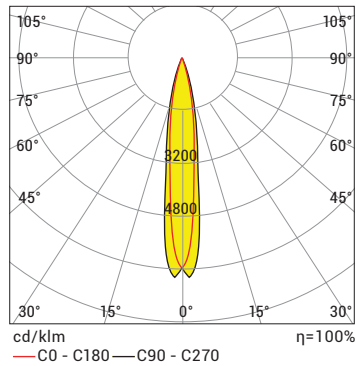
Order Code

P . W . O . J . M

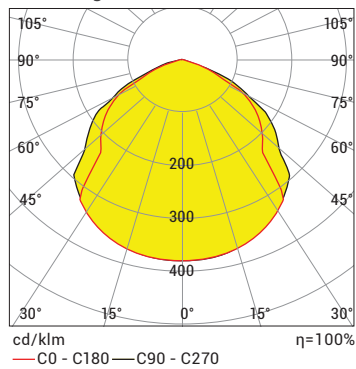


## Product Diagrams

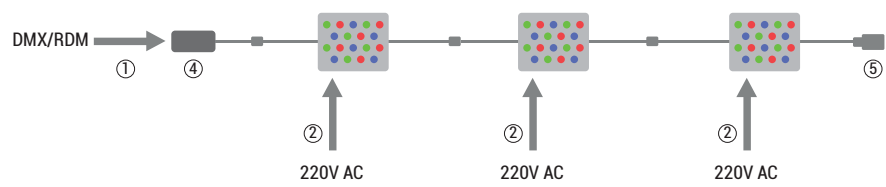
Polar Diagram



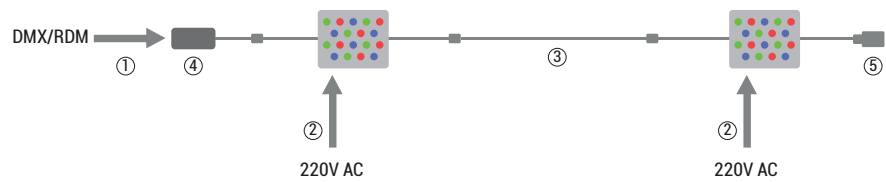
Polar Diagram



## Standard Connection Scheme



## Connection Scheme with Extension Socket



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600755: RDMX INPUT JOINT



(5) 33600696 : RDMX TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

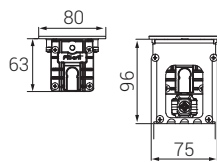
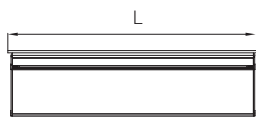
26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



**RDMX**



- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
CFL109-RDMX	RGB	220-240V AC	12	380	2,5
CFL218-RDMX	RGB	220-240V AC	23	670	4,0
CFL327-RDMX	RGB	220-240V AC	34	960	5,1
CFL436 -RDMX	RGB	220-240V AC	45	1250	7,3
CFL112-RDMX	RGBW/A	220-240V AC	16	380	2,5
CFL224-RDMX	RGBW/A	220-240V AC	31	670	4,0
CFL336-RDMX	RGBW/A	220-240V AC	45	960	5,1
CFL448-RDMX	RGBW/A	220-240V AC	60	1250	2,9

## O Lens Options

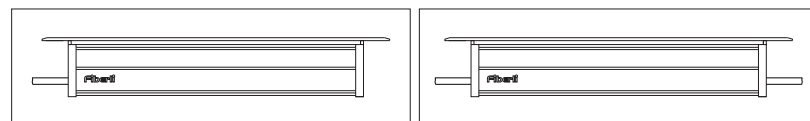


**XN:** Extra Narrow Angle  
**N:** Narrow Angle  
**M:** Medium Angle  
**W:** Wide Angle  
**E:** Elliptical Angle



**NA:** Asymmetrical Narrow Angle  
**MA:** Asymmetrical Medium Angle

## K Cable Direction Options

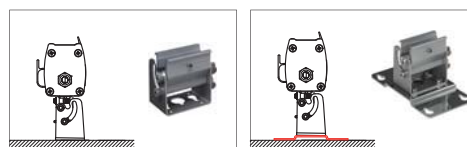


**01:** Single entry

**03:** Dual entry and exit

*\*Only for energy cable*

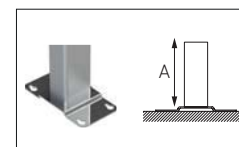
## M Mounting Options



**20:** Standard Stand

**21:** Standard stand/  
Mounting kit

## Optional Accessories



**34:** Extension piece A=5cm

**35:** Extension piece A=10cm

**36:** Extension piece A=20cm

*Extension pieces at any desired length are optional*



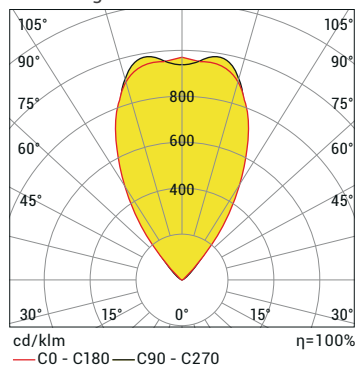
Order Code

P . W . O . K . M

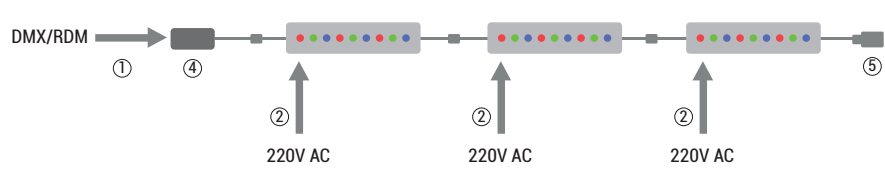


## Product Diagrams

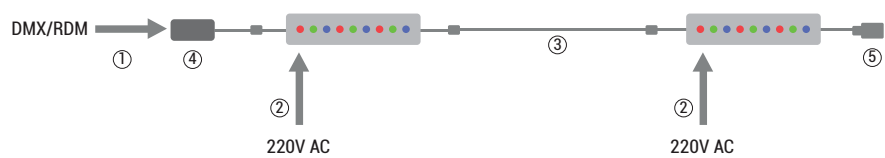
Polar Diagram



## Standard Connection Scheme



## Connection Scheme with Extension Socket



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600755: RDMX INPUT JOINT



(5) 33600696 : RDMX TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

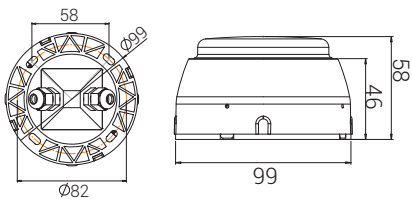
26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION





**RDMX**

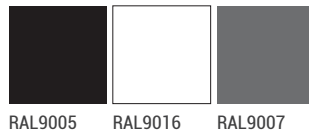


- Plastic injection body
- Polycarbonate luminaire glass
- RDM configuration
- IP67 socket for DATA-SIGNALS

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
DOT-RDMX-6	RGB	12-48V DC	2	0,2
DOT-RDMX-12	RGB	12-48V DC	3	0,2
DOT-RDMX-18	RGB	12-48V DC	5	0,2

## G Housing Color Options



RAL9005 RAL9016 RAL9007

## U Upper Piece Options



9: Difused

11: Transparent

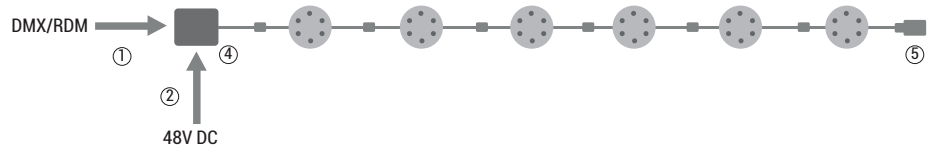


Order Code

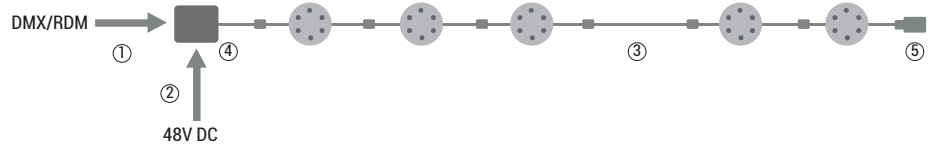
P . W . G . U



## Standard Connection Scheme

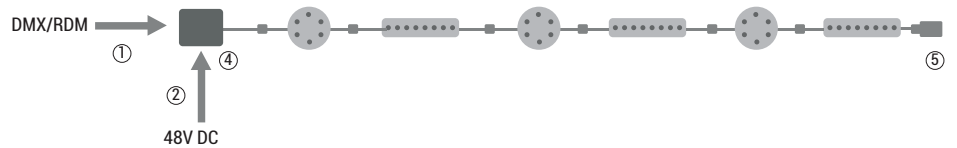


## Connection Scheme with Extension Socket



## Combined Model Connection Scheme

DOT-RDMX-xx and LL-RDMX-xxx can be grouped together by DOT/LL combined chain model



(1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

(2) AC SUPPLY CABLE, 3x1mm TTR

(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600695 :RDMX INPUT JUNCTION BOX



(5) 33600696 : RDMX TERMINATOR

## Accessories

33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY

26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)

26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



# LED Cell Products

LL

DP

CD

WW

CG

CS

CF

AC

CB

HB

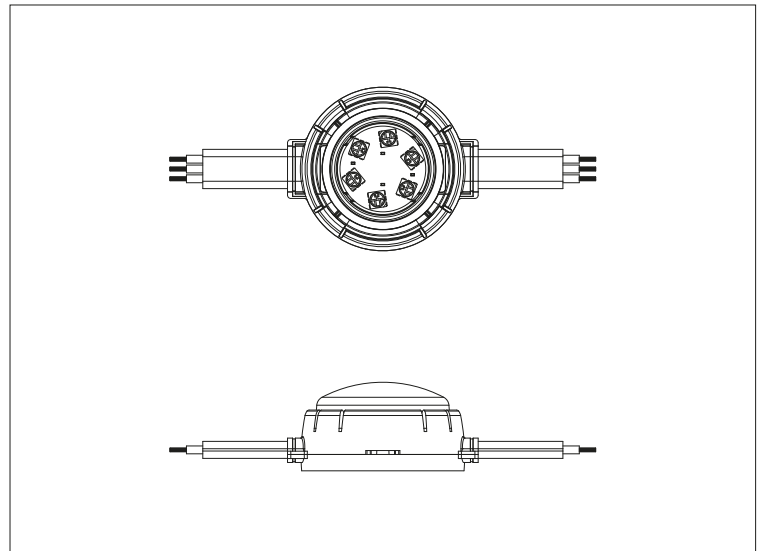
MM

RDMX

**LC**

FO

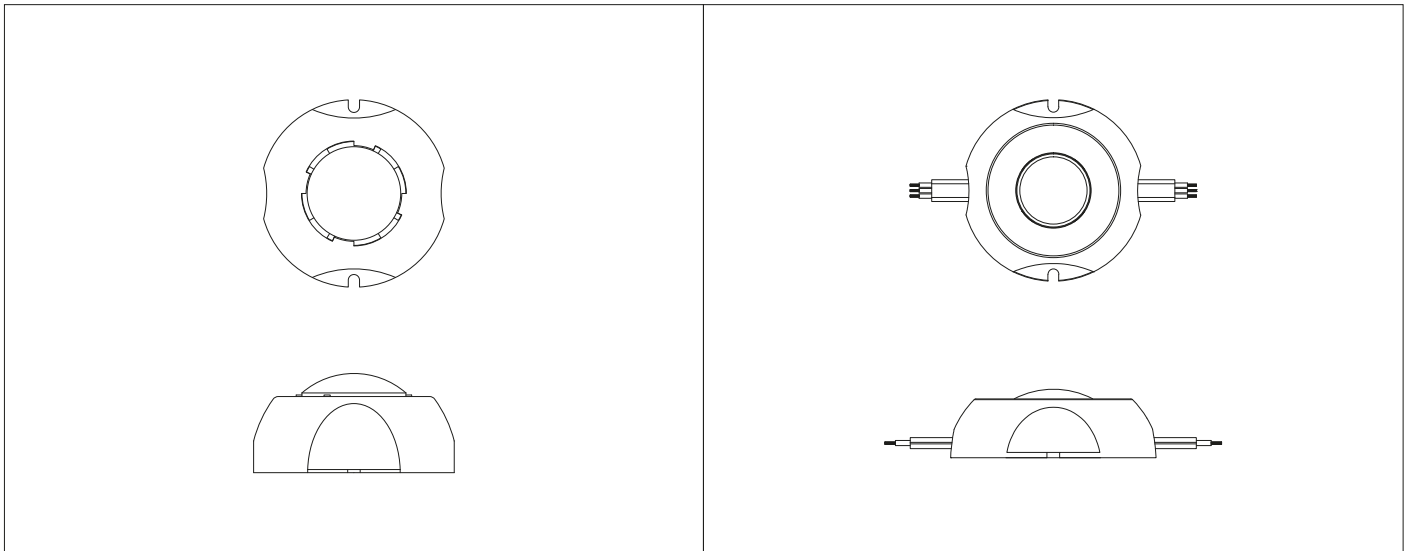
EL



## LED Cell

The LEDCell series is a Multi-LED curtain and spot luminaire series which can be produced in any form or measurement for organizations such as concerts, exhibitions, clubs, fairs or light shows. The pixel resolutions of these luminaires can be adjusted depending on the watching distance. Fascinating light shows and graphic animations can be displayed as well as other types of luminaires within this series which react to sound and transmit live feed. These can both be used as fixed or portable due to their flexible design.

# LED Cell Products



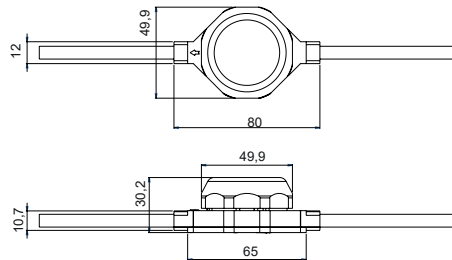
## LEDCell - LED Cell Products



**DOT DIAMOND**



**C-LINE SCREEN**



- Plastic injection body
- Polycarbonate luminaire glass
- Easy setup system
- New generation Chip RGBW

## P W Product & Power Options

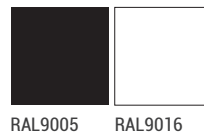
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DOT DIAMOND	RGBW	24V DC	2	117	0,07

\*Power and Lumen values provided are based off of "cold white (CW) LED".

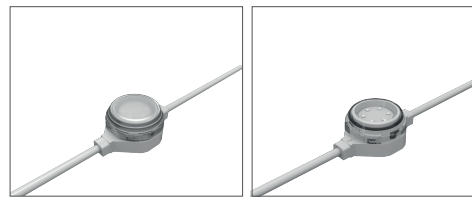
## C Light Color Options



## G Housing Color Options



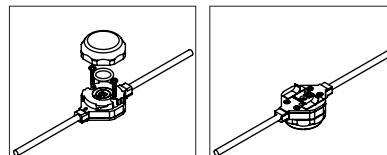
## U Upper Cover Options



DDU: Diffused

DSF: Transparent

## M Mounting Options



14: Screw Mount

02: Surface mount with adhesive

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
RGB/W DMX			•			



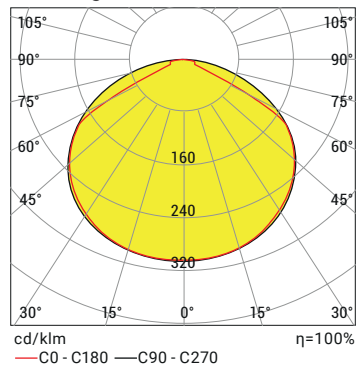
Sipariş Kodu

P . W . C . G . U . M . S



## Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E <sub>max</sub> (lx)
3,0	9,3	3,9
2,5	7,8	5,7
2,0	6,2	8,9
1,5	4,7	16
1,0	3,1	35
0,5	1,6	142

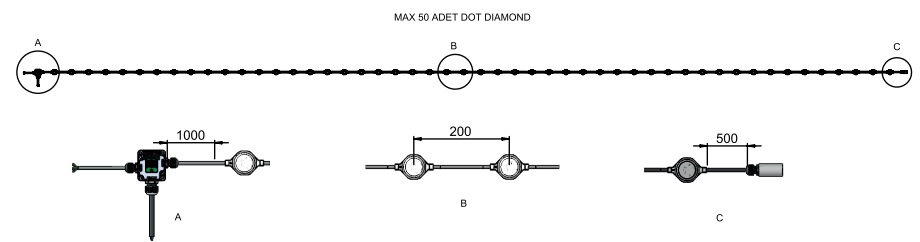
DOT RGBW 2W 24V DC IP66

## Accessories

33600991: Dot Diamond Mini Buat

33600992: Dot Diamond Midi Buat

## Standard Connection Scheme



### A

- As a DMX data ve power cable:

33400617 CABLE 1x2x0,22mm+1x2x0,75mm+1x0,22mm BLACK

It is the entry point for both data and power.

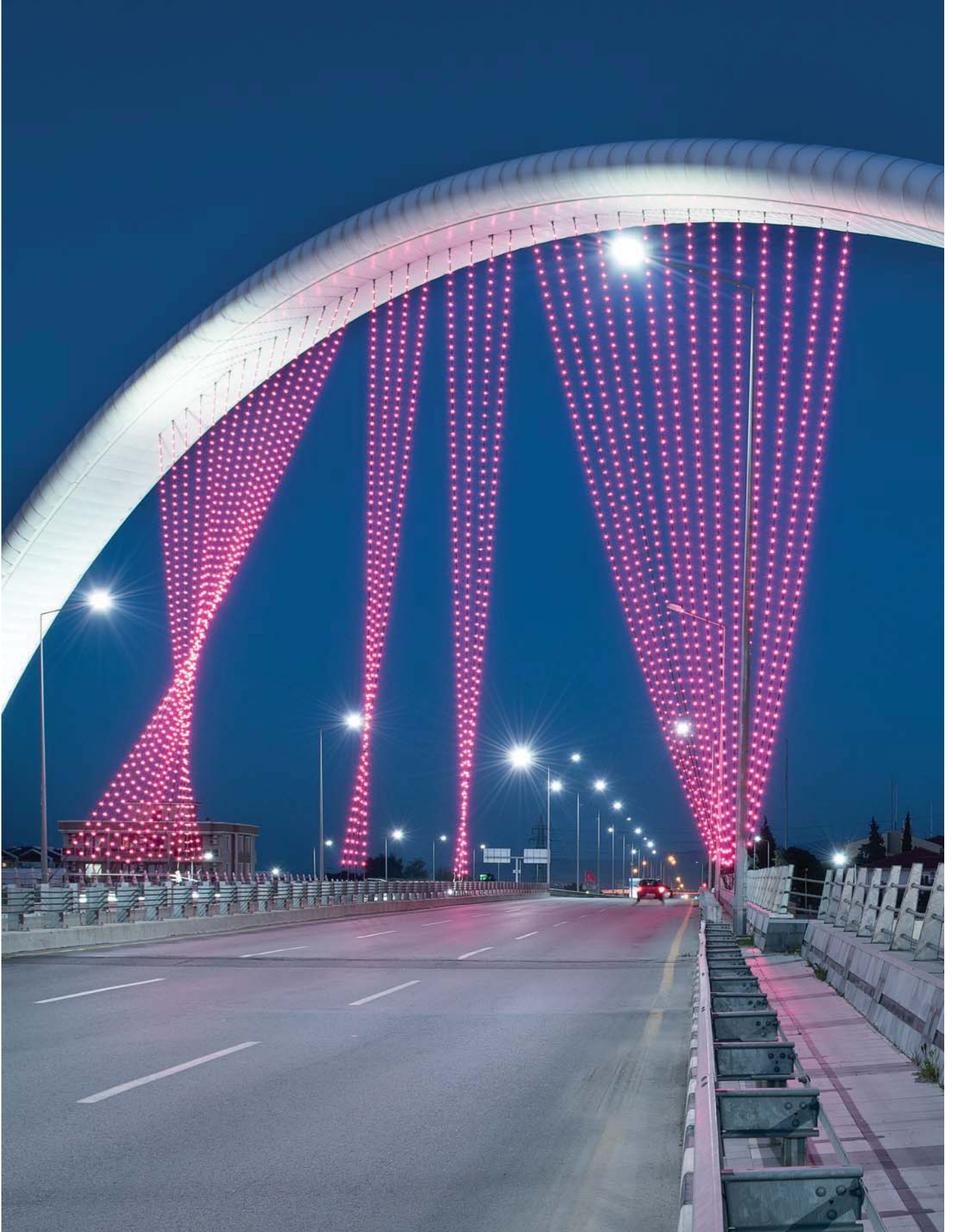
### C

- The distance between pixels can be 20, 50, 60cm.

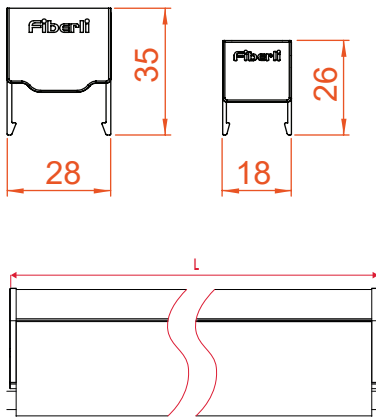
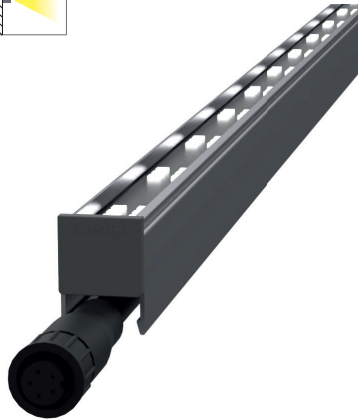
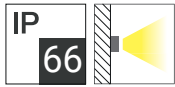
### B

- The last product in the chain should be equipped with an end connector.

33600993 DOT DIAMOND



Alparslan Türkeş Bridge, Manisa



- Thanks to Balanced HV Technology, it eliminates the necessity for feedback, ensuring effortless project design and time savings.
- True Color provides original colors throughout the entire project.
- The Lock & Light System, with its socketed connection structure, withstands all challenging conditions.

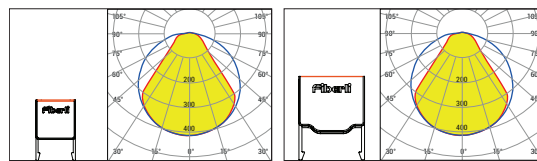
## P W Product & Power Options

Product Name	LED - Pixel - Power	Length (L) (mm)	Voltage
C-LINE-Screen	RGB=6 cm/px = 0,84W/px	120	48V DC
C-LINE-Screen	RGB=6 cm/px = 0,84W/px	120	48V DC

## C Light Color Options



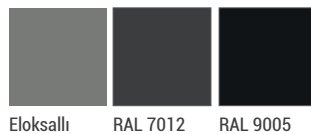
## U Upper Cover Options



SC18

SC28

## G Color Options

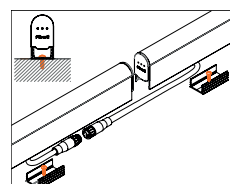


Elokssali

RAL 7012

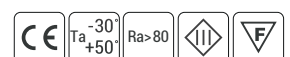
RAL 9005

## M Mounting Options



Order Code

P . W . C . U . G . M







LL

DP

CD

WW

CG

CS

CF

AC

CB

HB

MM

RDMX

LC

**FO**

EL

## Fiber Optic

Fiber optic lighting is the transmission of light, generated by a light generator, to the desired area through the medium of fiber optic cables. The source of light undertakes the task of light generation and the fiber optic cable, the task of light transmitter. The only limit in designing with the fiber optic lighting system is your imagination. You can apply almost everything that you can imagine. The most fundamental characteristics of fiber optic lighting technology, which creates its difference to other lighting technologies are freedom and flexibility. You have the freedom to place the light source, used for fiber optic lighting systems, at any desired location. This notion of freedom comes with plenty of advantages.

The Fiber Optic lighting system is comprised of 2 main parts :

-Light source

-Fiber Optic cable harness

(\* IF demanded, fiber optic cables can be used with lens luminaires attached to them.

The Fiber Optic cables are harnessed after being cut in compliance with the prepared project architectural design or requirement. These harnesses are placed to the light source (point of origin of light) with terminal sleeves. Thus, the light, generated by the light source, is transmitted through the fiber optic harness to the luminaire or directly bare fiber optic end. A single Fiber optic cable harness is comprised of fiber optic cables, with the same or different diameters or lengths, which are completely determined according to your needs. Fiber optic lighting system delivers a lighting marvel which will stretch the imagination in architectural design, making the separation of luminaire and light source via fiberoptic cables. The luminaires to be used include a wide range of variety, depending upon the architecture of the venues (such as a crystal end, a terminal end, lens luminaires)

Intended use of lens luminaire

-Aesthetical an aesthetic appearance

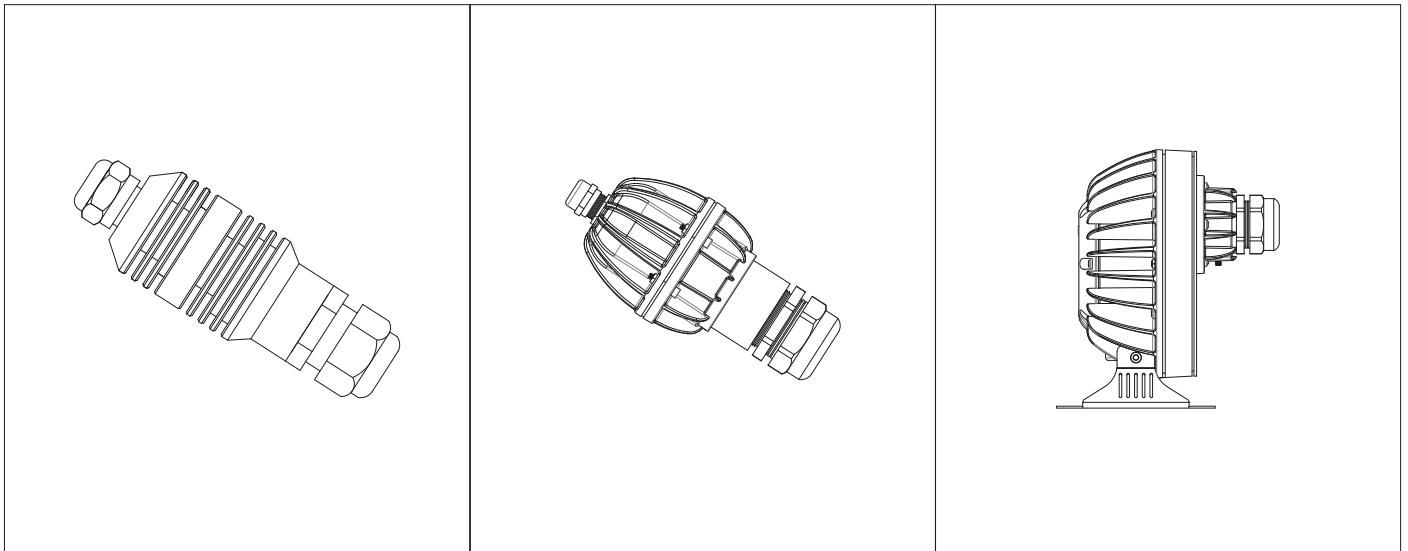
-More intensive light

-Where spot lighting is needed.

-Where flood lighting is needed.

Additionally, these luminaires also take precedence over the conventional lighting components due to their smaller dimensions and offering the capability to be equipped with optic lenses. The outlet angle of the light can be lowered to 1 degree from 120 degrees with luminaires selected for proper use, in order to increase the light intensity. Thus, the desired effect can clearly be achieved.

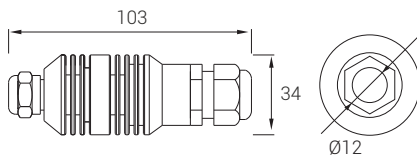
# Fiber Optic Products



## Fiber Optic - Fiber Optic Products and Accessories



IP  
44



- Aluminum body
  - Fixed (unchanging) or changing color option
  - Works silently, without the need for fan cooling
  - Up to 200 mixed fiber optic strands
- \*See size options in table FO package options*

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK7-V2	WW-NW-CW	220-240V AC	2	0,3
IK7-V2	WW-NW-CW	5V DC	2	0,3
IK7-V2	RGB	7,5V DC	6	0,3

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

## UZ Length Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

## PK Package Options

50 Mixed Strand	150 Mixed Strand
75 Mixed Strand	200 Mixed Strand
100 Mixed Strand	

## Fo Package Options

Fiber Optic Cable Type	50 Mixed strand (qty)	75 Mixed strand (qty)	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)
20	0	0	0	88	133
30	20	40	60	30	40
40	10	16	25	15	15
60	8	10	8	10	8
80	6	5	5	5	2
100	3	2	1	1	1
120	3	2	1	1	1

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●				●	
R,G,B,A	●				●	
RGB	●					
RGBA/W	●					
RGB DMX						
WHITE DMX						

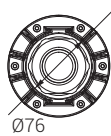
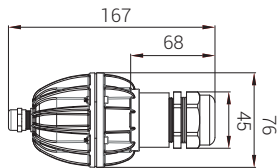


Order Code

P . W . C . UZ . PK



IP  
44



- Electrostatic powder coated aluminum injection body
- Fixed (unchanging) or changing color option
- Works silently, without the need for fan cooling
- Comes with up to 400 mixed fiber optic strands

\*See size options in table FO package options

## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK77-V2	WW-NW-CW	220-240V AC	10	0,53
IK77-V2	WW-NW-CW	12V DC	13	0,53
IK77-V2	WW-NW-CW	12V DC	18	0,53
IK77-V2	RGB	12V DC	18	0,53

## C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

## UZ Lenght Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

## PK Package Options

100 Mixed Strand	300 Mixed Strand
150 Mixed Strand	350 Mixed Strand
200 Mixed Strand	400 Mixed Strand
250 Mixed Strand	

## Fo Package Options

Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

## Control System Options

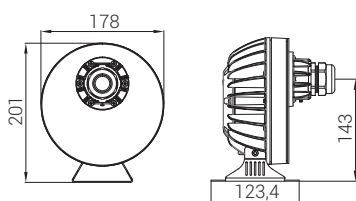
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●				●	
R,G,B,A	●				●	
RGB	●					
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . UZ . PK





- Electrostatic powder coated aluminum injection body
- Mechanical filter
- High efficiency with Multi-Chip LED
- Works silently, without the need for fan cooling
- Comes with up to 400 mixed fiber optic strands

\*See size options in table FO package options

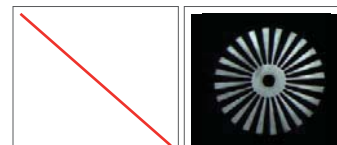
## P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK777	WW-NW-CW	220-240V AC	25	2,1
IK777	WW-NW-CW	220-240V AC	40	2,1

## C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

## U Filter Options



24: Without Filter      25: Mechanical Filter

## UZ Length Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

## PK Package Options

100 Mixed Strand	300 Mixed Strand
150 Mixed Strand	350 Mixed Strand
200 Mixed Strand	400 Mixed Strand
250 Mixed Strand	

## Fo Package Options

Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

## Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

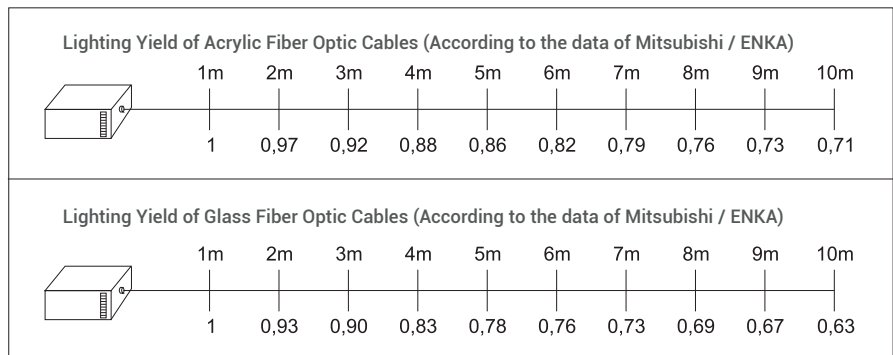
P . W . C . U . UZ . PK





# Light Source





## Fiber Optic Cables / FOK

These are the system's basic components that enable the transportation of the light, generated at the light source, to the area of usage. The fiber optic cables are lifetime guaranteed, except the circumstances of application of force and fading or degradation would not occur in the light transported by such cables. Fiber optic cables can be applied anywhere between the temperatures of +110°C and -40°C and are resistant against adverse conditions such as underground, underwater, inner concrete and humid areas. Due to being light transporters, these cables do not cause any risk of power failure. All of the fiber optic cables, utilised for our products, are fiber optic cables manufactured by the Mitsubishi Company. Mitsubishi, which has been manufacturing fiber optic cables since 1975, is one of the best companies throughout the world in this regard. Mitsubishi, aside from our company, exports these cables to many highly qualified companies, located in the USA and Europe. Fiber optic cables are manufactured as bared in two main forms which are glass and acrylic. The cutting and shaping, forming harnesses, encasement and finishing of fiber optic cables, depending on needs, which we import in reels, unprocessed, are performed by our company.



- Electrostatic powder coated aluminum injection body
  - Fixed (unchanging) or changing color option
  - Works silently, without the need for fan cooling
  - Comes with up to 400 mixed fiber optic strands
- \*See size options in table FO package options*

## Acrylic Fiber Optic Cables

Poly Methyl Methacrylate (PMMA) is utilised as a basic substance for the structures of these cables. These are manufactured in diameters between 0.25 mm and 3 mm. The cables can provide long term runtime between the degrees of -40 and +70 °C and short term runtime up to +110°C. These can enable the transportation of the generated light, when affixed to the light outlets of light sources. As these cables can radiate from ends, they can also be ensured to give off light from the side after being harnessed or braided or to transport more quantity of light by being harnessed and encased. The cutting of parts of the cables, which are affixed to the light sources, require quite a specific technology, thus making the on-site manufacturing of fiber optic systems rather difficult. Due to the aforesaid fact, we forge package systems, by merging the ends of fiber optic cables, in a given number and dimensions or prepare cables at the required dimensions and quantities.

## Non-sheathed Cables

Product Code	Section	Section area (mm <sup>2</sup> )	Diameter (mm)	m/mkr
Fiberli FOK 10	• ———	0,049	0,25	12.000
Fiberli FOK 20	• ———	0,196	0,50	6.000
Fiberli FOK 30	• ———	0,441	0,75	2.700
Fiberli FOK 40	• ———	0,785	1,00	1.500
Fiberli FOK 60	• ———	1,766	1,50	700
Fiberli FOK 80	• ———	3,140	2,00	250
Fiberli FOK 100	• ———	4,906	2,50	250
Fiberli FOK 120	• ———	7,065	3,00	150





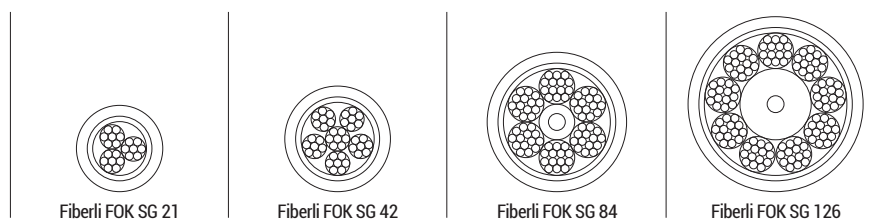
## End Radiant Unsheathed Cables

Product Code	Instruction	Section area (mm <sup>2</sup> )	Diameter (mm)	m/mkr
Fiberli FOK BJ 30	Black Jacketed PMMA	0,441	0,75	500
Fiberli FOK BJ 40	Black Jacketed PMMA	0,785	1,00	500
Fiberli FOK BJ 30.7	Black Jacketed PMMA	3,080	3,25	100
Fiberli FOK BJ 30.19	Black Jacketed PMMA	8,380	4,75	100
Fiberli FOK BJ 30.31	Black Jacketed PMMA	13,68	5,60	100
Fiberli FOK BJ 30.55	Black Jacketed PMMA	24,25	7,12	100
Fiberli FOK BJ 20.63	Black Jacketed PMMA	3,080	3,25	100



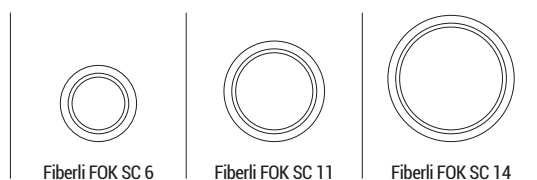
## Side Radiant Sheathed Cables

Product Code	Instruction	Diameter (mm)	Quantity
Fiberli FOK SG 21	Transparent Jacketed Mitsubishi PMMA	75	21
Fiberli FOK SG 42	Transparent Jacketed Mitsubishi PMMA	75	42
Fiberli FOK SG 84	Transparent Jacketed Mitsubishi PMMA	75	84
Fiberli FOK SG 126	Transparent Jacketed Mitsubishi PMMA	75	126

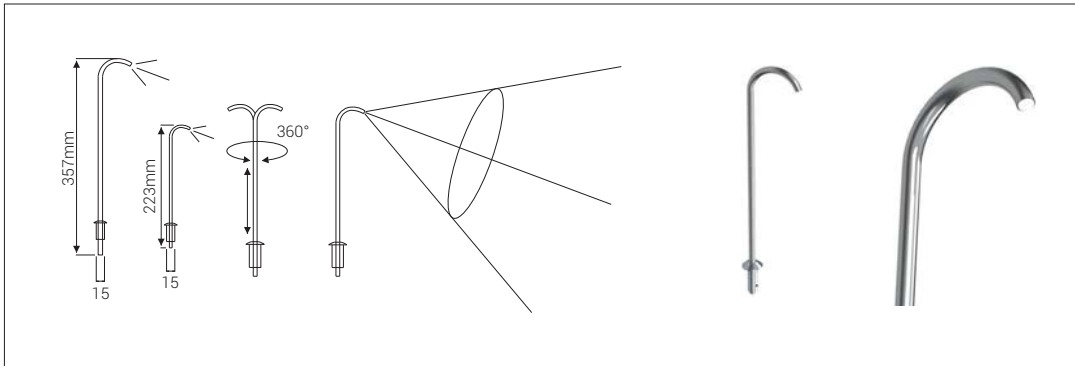


## Side Radiant Sheathed Cables

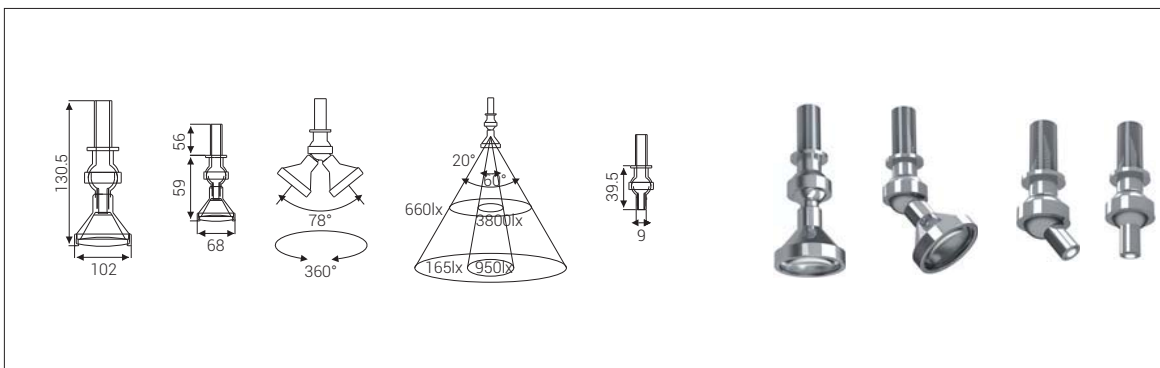
Product Code	Instruction	Diameter (mm)	Quantity
Fiberli FOK SC 6	Transparent Jacketed PMMA	6	-
Fiberli FOK SC 11	Transparent Jacketed PMMA	11	-
Fiberli FOK SC 14	Transparent Jacketed PMMA	14	-



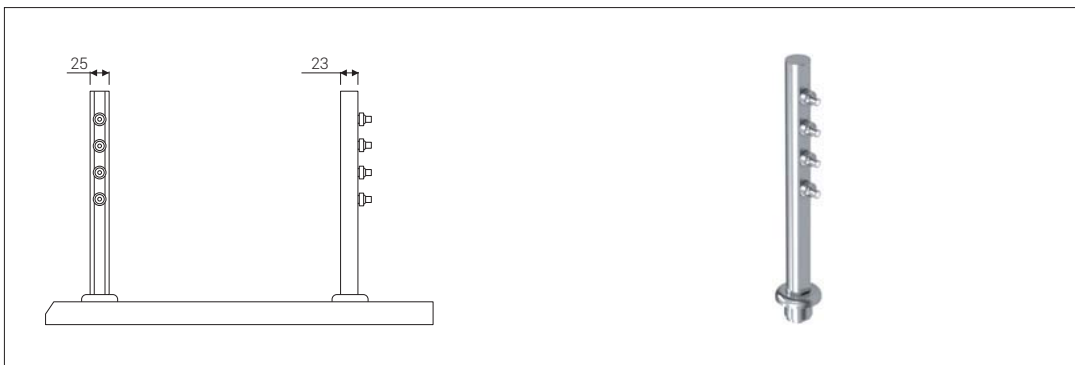
## L Type Lens



## G Type Lens



## DK Type Lens





# Electronic Control Systems

LL

DP

CD

WW

CG

CS

CF

AC

CB

HB

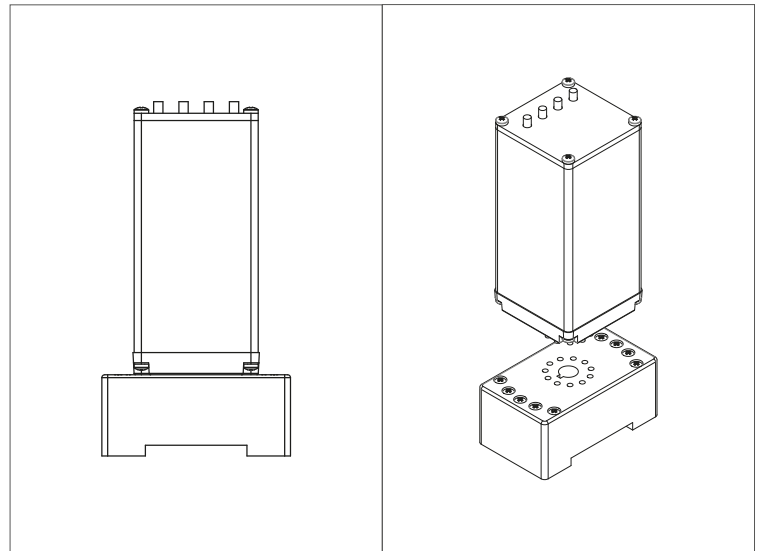
MM

RDMX

LC

FO

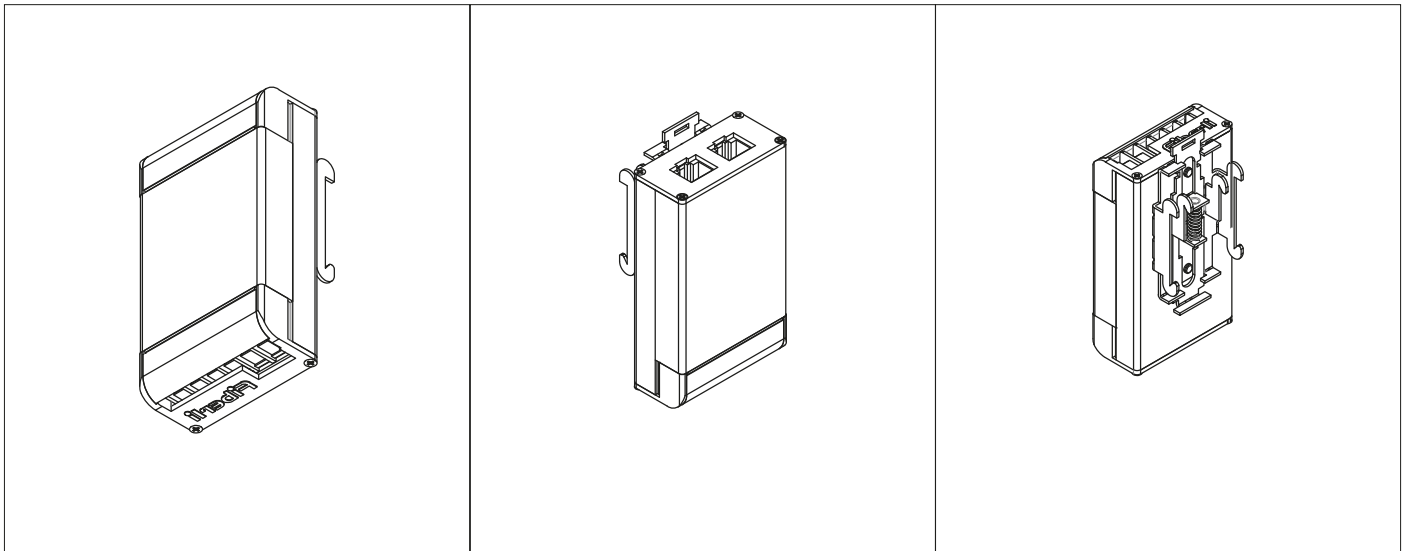
**EL**



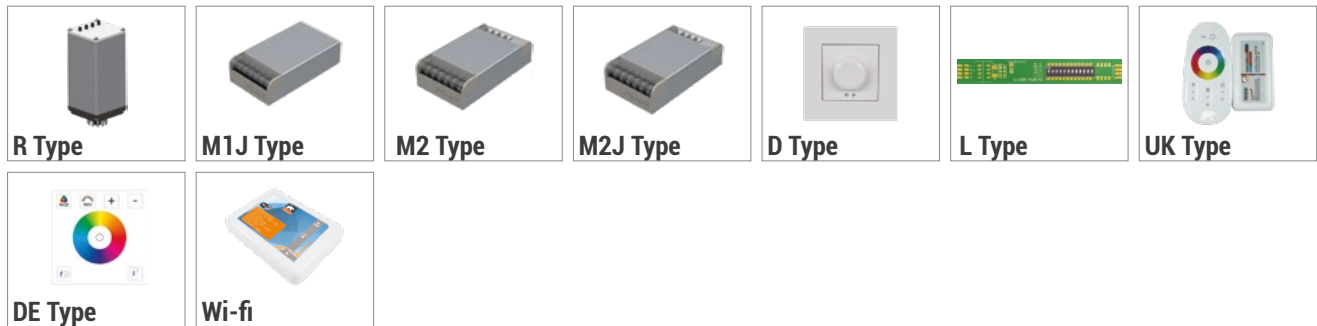
## • **Electronic Control Systems**

DMX, PWM and modulators are used for dim control, color control and on-off settings of the LED systems and they are called “Electronic Control Systems”. On the project, the control units have to be designed and be determined compatible to each other, according to requirements of the project design.

# Electronic Control Systems



## Electronic - Electronic & Control Systems





## Box Types

		Explanation
R Type		11 pinned socket compatible with mounting to internal panel ray.
M1J Type		One side screw terminal and other side RJ45 socket compatible to use in or out of the panel.
M2 Type		Both sides screwed terminal. In or out of the panel
M2J Type		2 sides screw terminal and 1 side RJ45 socket, in or out of the panel
D Type		Wall mounting, screwed terminal
L Type		Designed with a thin long structure with cable inlets and outlets in order to be used inside the luminaire and on line, thus featuring the same mounting options with LEDLine luminaires.
UK Type		Its Fibered Remote controls provides you with the opportunity for wireless control of lighting systems up to 30 Meters of distance. Depending on the remote control type, this type enables you to control the setting of the desired color and light intensity, powering on and off and various lighting animations with the 2.4 GHz RF modulation by means of the touch-sensitive area and function keys on the handle. It offers the controlling of many receiver control units or the flexibility to classify the remote controls with a single remote control. The 2.4 GHz receiver units are compatible with Fibered Wi-Fi Bridge control and enable control also with Smart Phones via the network established with the matching with the Bridge.

## Box Types

Explanation

DE Type



Touchscreen, wall mounting, modulator and dimmer.

41000106 - Wi-Fi Bridge



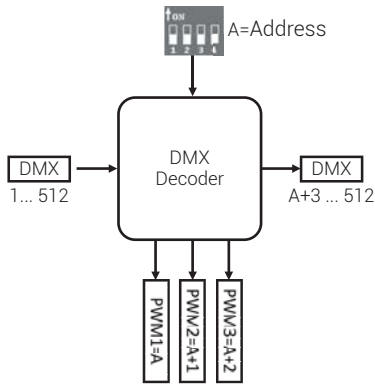
It is the bridge system, which also enables the control of fibered remote control products via Wi-Fi. It also offers the opportunity to control the lighting systems with smart telephones and tablets via the internet by means of IOS-Android applications.

## Box Types

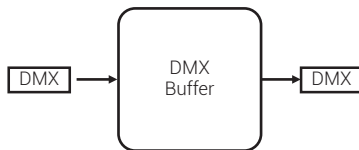
Product code	Description	Case	Interface	Input Control-Data signal	Output Data Signal	Output Number of the channels	Output Power Signal	Feed
33600239	DMX Decoder	R	DIP-Switch	DMX	DMX	3	PWM 3x6A	5-24V DC
33600285	DMX Decoder	R	DIP-Switch	DMX	DMX	3	INV-PWM 3x6A	5-24V DC
33600456	DMX Decoder	M1J	DIP-Switch	2 x DMX/PDMX	PDMX	3	PWM 3x5A	7-24V DC
33600317	DMX Decoder	M1J	DIP-Switch	2 x DMX/PDMX	PDMX	4	PWM 4x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	INV-PWM 3x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	INV-PWM 4x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	PWM 3x5A	7-24V DC
33600424	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	PWM 4x5A	7-24V DC
33600401	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	INV-PWM 3x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	INV-PWM 4x5A	7-24V DC
33600265	DMX Decoder	L	DIP-Switch	DMX	DMX	3	PWM 3x2A	7-24V DC
33600189	DMX Buffer	R	-	DMX	DMX	-	-	7-24V DC
33600307	DMX Buffer	M2	-	DMX/PDMX	PDMX	-	-	7-24V DC
33600389	DMX Buffer	L	-	DMX	DMX	-	-	7-24V DC
33600240	PWM Switch	R	-	PWM	-	3	PWM 3x6A	5-24V DC
33600279	PWM Switch	R	-	PWM	-	3	INV-PWM 3x6A	5-24V DC
33600369	PWM Switch	M2	-	PWM	-	4	PWM 4x5A	5-24V DC
33600391	PWM Switch	M2	-	PWM	-	4	INV-PWM 4x5A	5-24V DC
33600366	PWM Dimmer	R	DIP-Switch	0-10V/1-10V	-	1	PWM/INV-PWM 3x5A	5-24V DC
33600277	PWM Dimmer	M2J	-	4 Button	-	4	PWM/INV-PWM 4x2A	7-24V DC
33600365	PWM Dimmer	D	POT	-	-	1	PWM/INV-PWM 1x5A	7-24V DC
33600461	PWM Dimmer	L	1 Button	-	-	1	PWM 1x5A	7-24V DC
*	PWM Dimmer	L	1 Button	-	-	1	INV-PWM 1x5A	7-24V DC
33600190	PWM Dimmer	85x45x25	R.Control 1 Color	RF 2,4 GHz	-	1	PWM 2x6A	12-24V DC
33600191	PWM Dimmer	85x45x25	R.Control 2 Color	RF 2,4 GHz	-	2	PWM 2x6A	12-24V DC
41000198	PWM Dimmer	85x45x25	R.Control 4 Region	RF 2,4 GHz	-	2	PWM 2x6A	12-24V DC
33600171	PWM Modulator	R	4 Button	-	-	3	PWM 3x5A	5-24V DC
41000199	PWM Modulator	85x45x25	R.Control RGBW	RF 2,4 GHz	-	4	PWM 4x?A	12-24V DC
33600178	PWM Modulator	85x65x25	R.Control RGB	RF 2,4 GHz	-	3	PWM 3x6A	12-24V DC

\* Unready

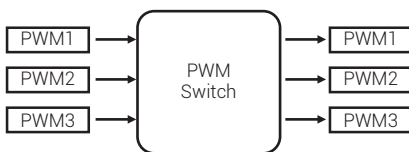
## Control Devices



Product Description	Explanation	Place of use
<p><b>DMX Decoder</b></p> <p>Converts the universal standard DMX512/1990 signal into analog signal. Dims the light for mono color products.</p>	<p>1-3 channel (RGB)/ + channel (RGBW) PWM/INV-PWM output.</p> <p>2-Address setting with the DIP-SWITCH. It transmits the set address to the PWM /INV-PWM output and transmits the addresses that are not set to the DMX output</p>	<p>To control PWM fixtures with DMX signal.</p> <p>To set the input addresses of DMX fixtures.</p>

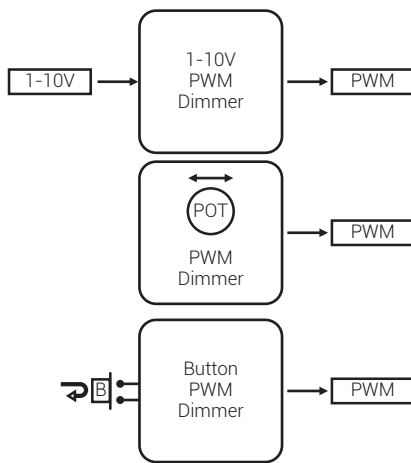


Product Description	Explanation	Place of use
<p><b>DMX Buffer</b></p> <p>Repeats DMX Signal</p>	<p>1-Has DMX input and DMX output</p> <p>2-Renews voltage of DMX input signal and transmits it to the output.</p>	<p>To transmit DMX signal for long distance.</p> <p>Repeats DMX signal</p>

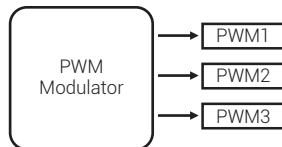


Product Description	Explanation	Place of use
<p><b>PWM Switch</b></p> <p>Repeats PWM Signal</p>	<p>1-3 Channels (RGB) / 4 Channels (RGBW) of PWM input.</p> <p>3 channels (RGB) PWM/INV-PWM output.</p> <p>Isolates all outputs and inputs from each other.</p>	<p>Increasing PWM signal current.</p> <p>Increasing and decreasing PWM signal voltage.</p> <p>Providing electrical isolation</p>

## Control Devices



Product Description	Explanation	Place of use
<p><b>PWM Dimmer</b></p> <p>Generates PWM signal</p> <p>Dims the light on monocolor fixtures</p>	<p>1-10 V Analog or POT or button output or remote line.</p> <p>2- 10 V ANALOG: Generates voltage values between 1V and 10V.</p> <p>Generates PWM signals variaty duty from %0 up to%100</p> <p>3-POT: Generates PWM signals variaty duty from %0 up to%100 by rotating left and right.</p> <p>Button: Generates PWM signals variaty duty from %0 up to %100 by holding the button down. Once released and hold the button down again the direction changes. If the button released and</p>	<p>Regulating and dimming the light for mono color fixtures.</p> <p>Regulating the light for CW and WW color fixtures.</p>



Product Description	Explanation	Place of use
<p><b>DMX Modulator</b></p> <p>Generates PWM signal.</p> <p>Provides color animation for 3-color (RGB ) and 4-color (RGBW) fixtures.</p>	<p>1-Set with button and remote control. PWM output</p> <p>Button: Sets animation speed or changes animation by pressig the button.</p> <p>Remote Controller: Sets animation speed or changes animation by the touch screen remote controller.</p>	<p>Animating for 3-color (RGB) / 4-color (RGB).</p>

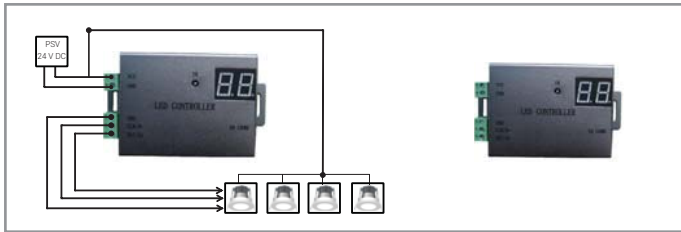




### 1. FBR 705SB

Single port output. Can control DMX 170 pixels, Cell 4096 pixels. Up to 4 GB animation can be uploaded on a SD Card. Can be controlled by a remote controller. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding. Input voltage is 5V. It can operate monicolor by mixing desired colors.

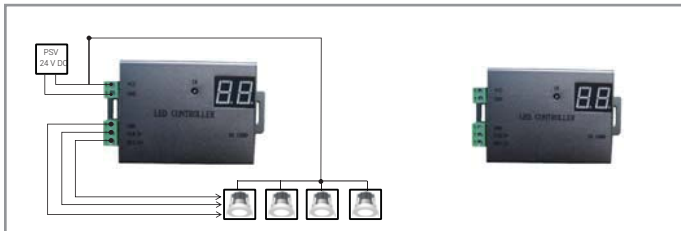
\*It is suggested to use this product with a Cell Protocole. 5V PSV is necessary if DMX is going to be used.



### 2. FBR 705SB-12V

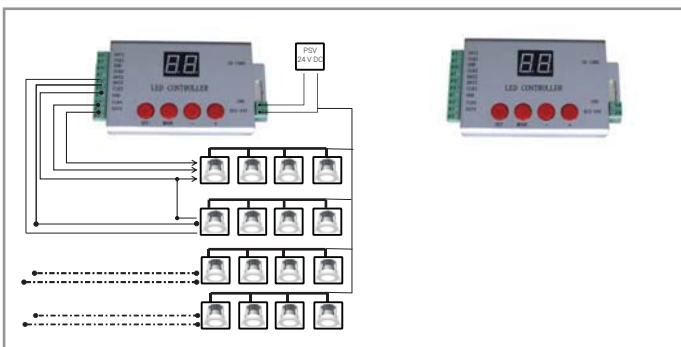
Single port output. Can control DMX 170 pixels, Cell 4096 pixels. Up to 4 GB animation can be uploaded on a SD Card. Can be controlled by a remote controller. Ability to play only selected animation or all animations in sequence. It can operate monicolor by mixing desired colors. Adjustable brightness and speed. Easy animation coding. Input voltage is 6-24V.

\*It is suggested to use this product with a DMX Protocole. 12V or 24V PSV is necessary in case of using with a Cell.



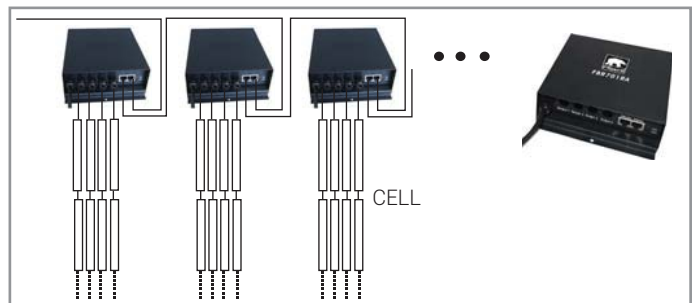
### 3. FBR 701SE

4 port outputs. Can control DMX 4x 170 pixels, Cell 4x20148=8192 pixels. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding. Button available.



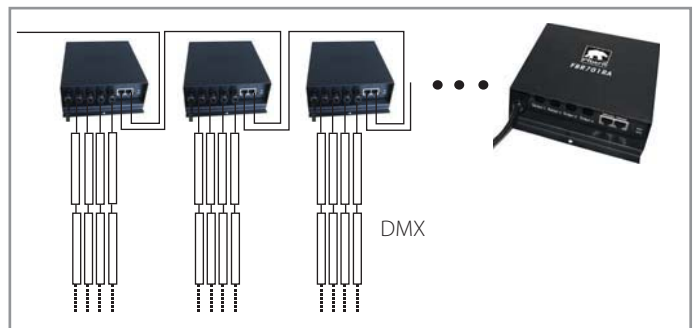
### 4. FBR 701RA

4 port outputs. Suggested for Cell products. It is a slave (can not operate by itself) control device which can be controlled by PC and Master controllers and can provide Cell 3412 piksel outputs and DMX 4x170 outputs in total. (With this device, DMX Decoder and DMZ buffer are needed for DMX Control) If PC control is desired, PC can control 100000 pixels. A maximum of 255 FBR 701RA can be connected one another in series. The distance between every slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.



### 5. FBR 701RA - DMX

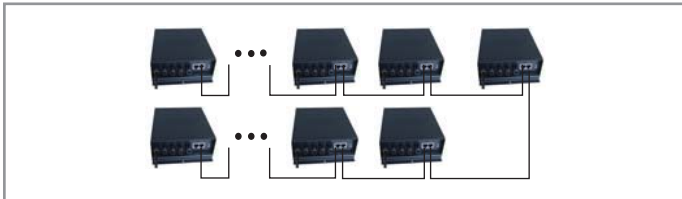
4 port outputs. Specifically made for DMX products. Includes decoder. Can provide Cell 3412 piksel outputs and DMX 4x170 outputs in total. (no need for a DMX Decoder or a DMX Buffer) Cell products. It is a slave (can not operate by itself) control device which can be controlled by PC and Master controllers. 100000 pixel can be controlled by PC. The distance between every slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.



# FRB Control Devices

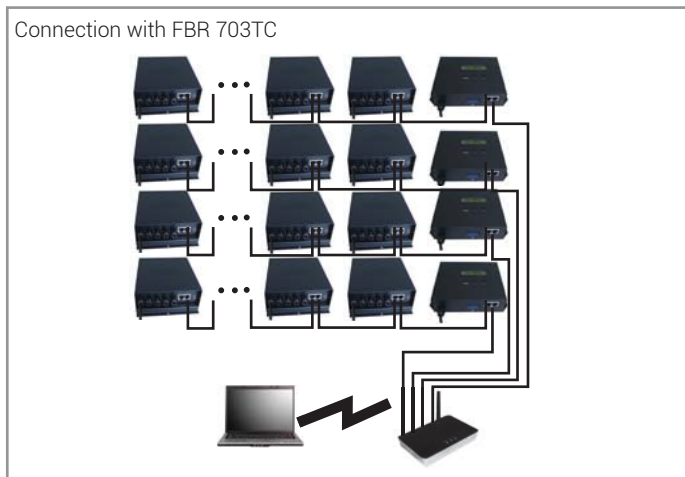
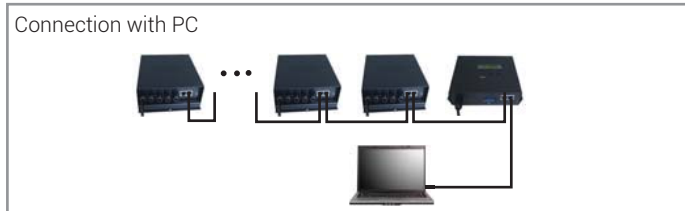
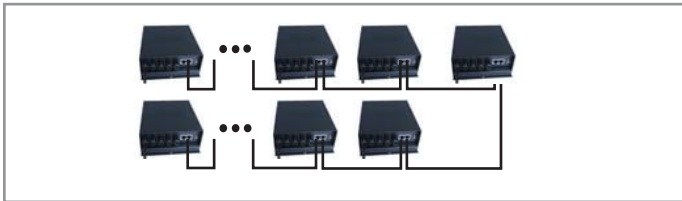
## 6. FBR 702TB

Two ethernet protocols outputs. Can provide Cell 30.720 pixel and DMX 30.720 pixel outputs that can operate offline by a programmable SD card. It is a master control device that max. 48 slave controller can be connected to it. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Buttons are available. Ethernet cable length between main controller and slave controller can be 100m where as the fiberoptic cable length can be 2km.



## 7. FBR 703TC

Two ethernet protocols outputs. Can provide Cell 122.880 pixel and DMX 170.000 pixel outputs that can operate online by a programmable SD card. It is a master control device that max. 255 slave controller can be connected to it. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding. Ethernet cable length between main controller and slave controller can be 100 m where as the fiberoptic cable length can be 2 km. Controller starts running automatically with a SD card as soon as the ethernet cable is pulled out.



## 8. FBR 704SA

4 port outputs. It can be programmed as 5 different settings; single, weekly, historical order, monthly and calendar based. Can provide max. DMX 4096 pixel output. Up to 64 GB animation can be uploaded on a SD Card (SDHC). Buttons are available. Ability to play only selected animation or all animations in sequence. Easy animation coding. Adjustable brightness and speed.



## 9. FBR 701SD\*

8 port outputs. DMX 8 x 170=13600 pixel output. It is a master control device. Up to 2 GB animation can be uploaded on a SD Card. Buttons are available.



PURL:	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK
PWM:	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK
DMX:	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-
	PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1	

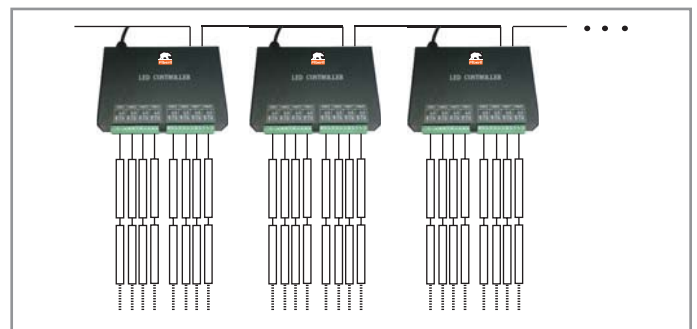
## 10. FBR 703SC\*

2 port outputs. Cell 2 x 1024=2048 pixel output. Sound and rhythm sensitive master control device with a built-in microphone. Adjustable sensitivity, play mode and speed with a dip switcher on the device



## 11. FBR 701 RC

8 port outputs. Suggested to use DMX and Cell products. Can provide Cell 8192 pixels outputs and DMX 8x170 outputs in total. In order to use it, every single port output has to be set as 1,2,4,8. Slave (can not operate by itself) control device controlled by a PC or a master control device. If controlled by a PC, 100000 pixels can be supported. A maximum of 255 FBR 701RA can be connected one another in series. The distance between each slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.



\*These are the control devices produced per order according to project requirements.



### RF 4 channel Warm- Cold White UK

Input Voltage : 12V-24V DC  
 Output Control : 2 circuits (WW-CW)  
 Controlling current : 6A/circuit  
 Connection method : Shared anode  
 Dimesion : 85x45x22mm  
 Remote controlled distance : 30 meter (outdoor)  
 Wifi Bridge

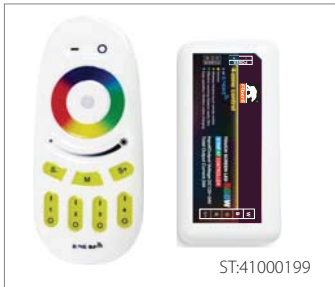
This controller controls white color temp. and light intensity .  
 Every control unit controls only one spot.



### RF 4 channel Warm- Cold White UK (button)

Input Voltage : 12V-24V DC  
 Output Control : 2 circuits (WW-CW)  
 Controlling current : 6A/circuit  
 Connection method : Shared anode  
 Dimesion : 85x45x22mm  
 Remote controlled distance : 30 meter (outdoor)  
 Wifi Bridge

This controller controls white color temp. and light intensity.  
 Every control unit controls only one spot.



### RGBW 4 Channel Remote Control

Input Voltage : 12V-24V DC  
 Output Control : RGB 3 channel/ RGBW 4 channels  
 Controlling current : 6A/circuit  
 Connection method : Shared anode  
 Dimesion : 120x52x20mm  
 Remote controlled distance : 30 meter (outdoor)  
 Programmes : 9 variation



### RF Color Temperature Remote Control

Dimmer, 1 Brightness setting: %100-1%,20 class brightness settings  
 2. color temperature options : 11 classes of color options  
 Wireless, intuitive ,touch screen remote control  
 Effective control distance : Approximately 30 m  
 Input/Output voltage : 12V-24V DC  
 Total output current : 12A  
 Output power : 12V<144W,24V<288W  
 Wifi Bridge




### RF LED Wireless Dimmer Remote Control

Dimmer,  
 100%-1%,50 class settings  
 Wireless, intuitive ,touch screen remote control  
 Effective control distance : Approximately 30 m  
 Input/Output voltage : 12V-24V DC  
 Total output current : 6A  
 Output power : 12V<72W,24V<144W  
 Wifi Bridge



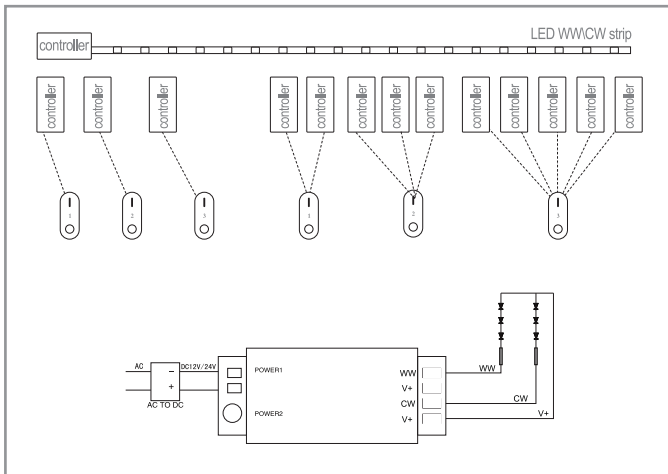
### 2.4 G Touchscreen LED RGB Remote Controller

RF 2.4 G 

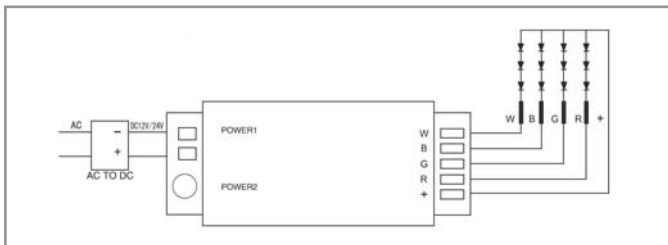
Dimmer

Wireless, intuitive ,touch screen remote control  
 Effective control distance : Approximately 30 m  
 Input/Output voltage : 12V-24V DC  
 Total output current : 18A  
 Output power : 12V<216W, 24V<432W  
 16 million color changes  
 Wifi Bridge

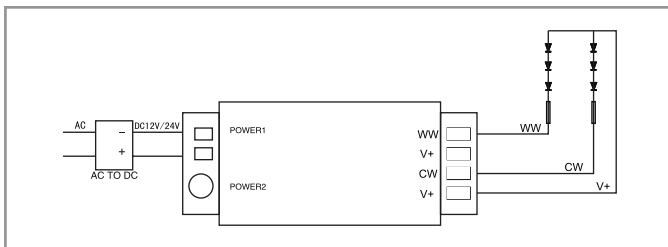
# Electronic Systems



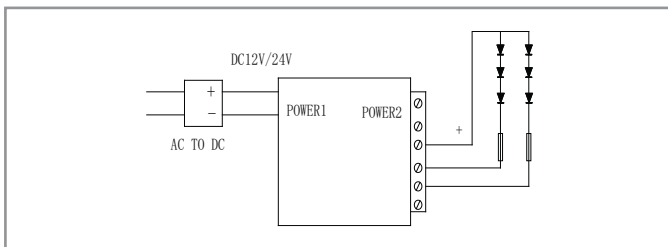
RF 4 Channel  
Remote control of warm and cold.



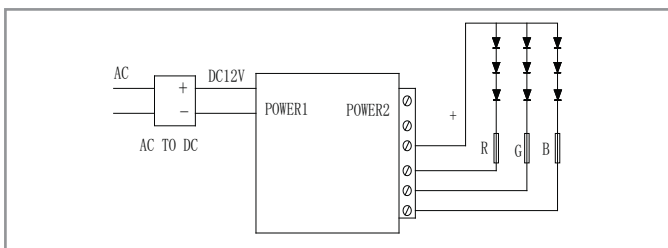
RGBW 4 Channel Remote Control  
Grouping and connection Scheme



RF color temperature remote control  
Connection Scheme



RF LED wireless dimmer remote control  
Connection Scheme



Touchscreen LED RGB remote controller  
Connection Scheme



### WiFi BRIDGE

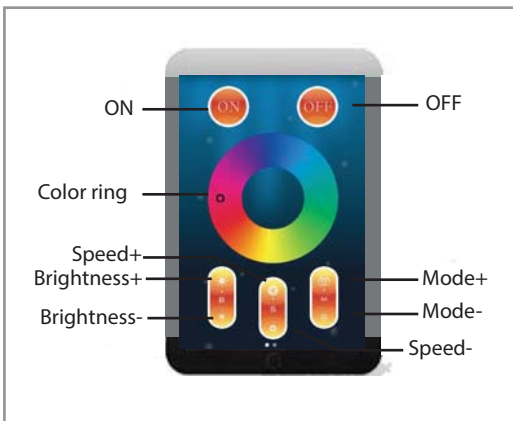
Connected by USB port or power adaptor

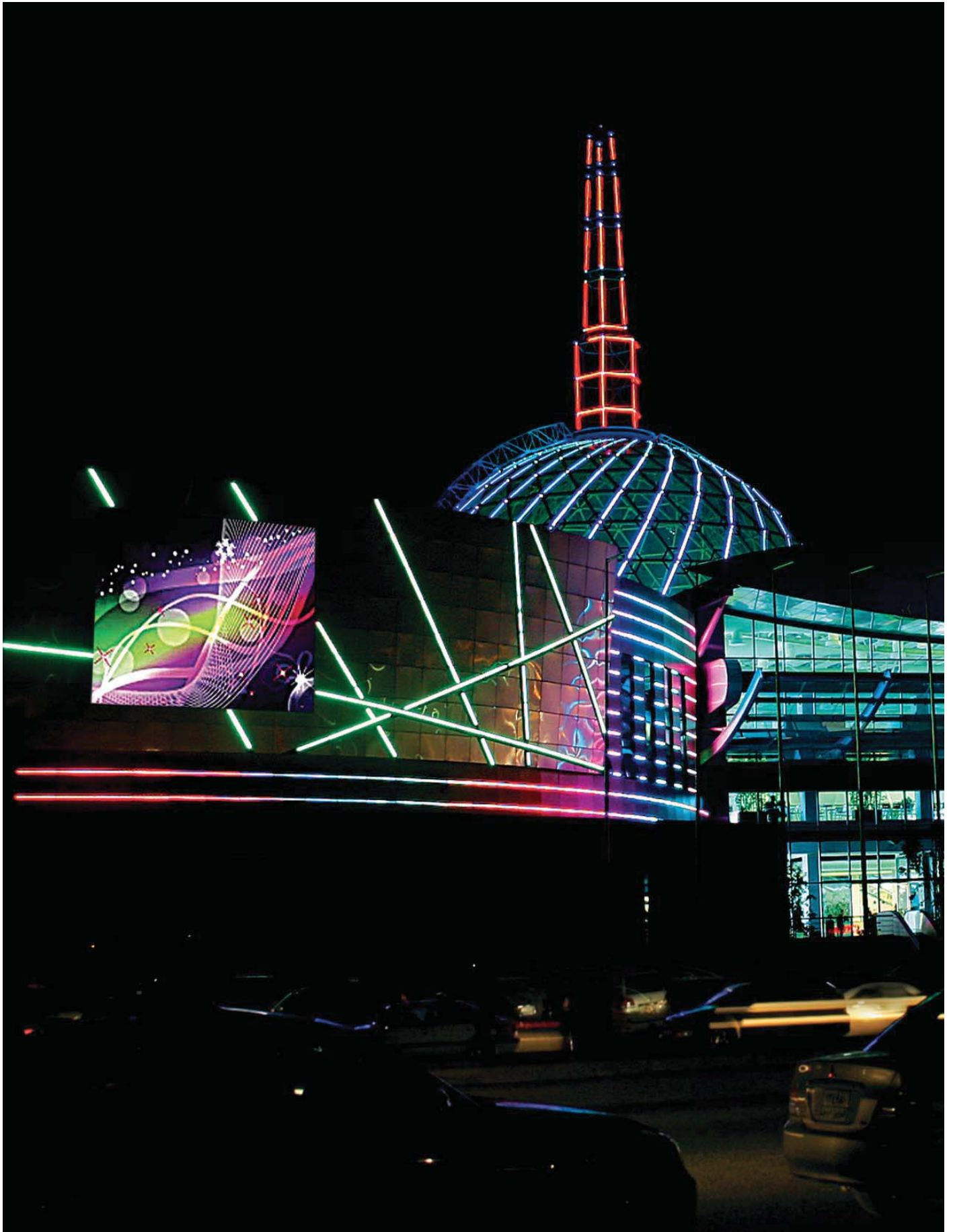
DC5V 500mA

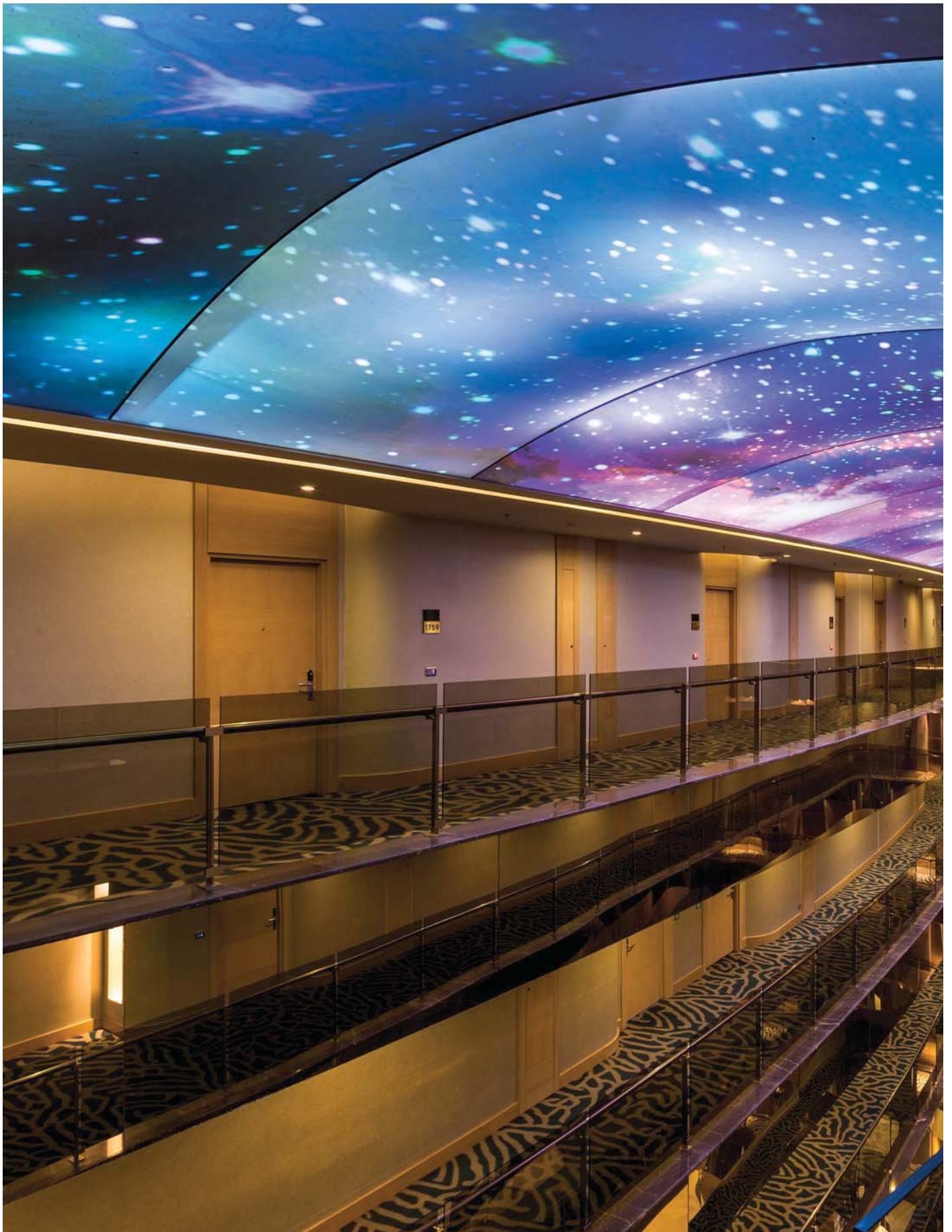
Power: 2.3 Watts

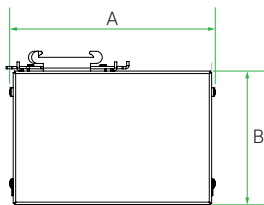
It can be included in the home and work network. It is a bridge system that allows remote control products to be controlled over wifi system at the same time. It also allows to control with smart phones, tablets and internet with IOS-Android applications. The scheme for connecting with smart phones and lighting systems are below;

Iphone/ Ipad smart phone APP Android  
2.2/IOS 5.0 üzeri









Fiberli Node2X is a DMX512-Ethernet interface device. Converts Art-Net™ packets over the network into suitable DMX512 data. Its power comes from the ARM architecture, high-speed processor. Provides stable and reliable operation. Via the web configuration interface, settings such as IP address, port numbers can be easily changed and the current status can be displayed. Compatible with all control software that supports the commonly used Art-Net™ protocol.

- Art-Net™ input signal
- 2-PORT DMX512 output signal
- XLR ve Socket options
- High speed ARM processor
- Web configuration interface
- Perfect compatibility with all protocol compliant software
- Rail, Wall ve Rack mounting options
- 100Mbit/s Ethernet speed
- Quick start
- Short circuit and ESD protection on output ports
- Data/Link status information lights
- Universal input voltage range (85~265VAC)
- Short-term plug and unplug of Ethernet cables while it is in operation (Hot plug)
- Plug and play operation without initial reconfiguration

## Technical Specifications

Specification	Parameter	Explanation			
		33600816	33600817	33600818	33600819
Electrical	Input Voltage	24VDC			
	Power Input Socket	2-Pin Plug-in Socket			
	Power consumption	2.4W			
Functional	Data Input Signal	Art-Net™			
	Data Input Socket	RJ45			
	Ethernet Speed	10/100 MBit/s			
	Ethernet Features	Auto-Neg. , Auto-MDIX			
	Data Output Signal	DMX512			
	Data Output Socket	XLR-3PIN	Socket	Socket	Socket
	Data Output Ports	2			
	Total DMX Channels	1024			
Physical	Dimensions (AxBxC)	135x104x44,5	135x87,8x44,5	170x87,8x44,5	466x87,8x44,5
	Operating temperature	-10°C ~ 60°C			
	IP Class	IP20			

## Product Options

Stock code	Stock name	Connection Type	Mounting Type
33600816	LED CONTROLLER NODE2X XLR 3-Pin Din-Rail 24VDC	XLR 3-PIN	Rail
33600817	LED CONTROLLER NODE2X Socket Din-Rail 24VDC	Socket 3-PIN	Rail
33600818	LED CONTROLLER NODE2X Socket Wall-Mount 24VDC	Socket 3-PIN	Wall
33600819	LED CONTROLLER NODE2X Socket Rack-Mount 24VDC	Socket 3-PIN	1U Rack





Fiberli Node8X is a DMX512-Ethernet interface device. Converts Art-Net™ packets over the network into suitable DMX512 data. Its power comes from the ARM architecture, high-speed processor. Provides stable and reliable operation. Via the web configuration interface, settings such as IP address, port numbers can be easily changed and the current status can be displayed. Compatible with all control software that supports the commonly used Art-Net™ protocol.

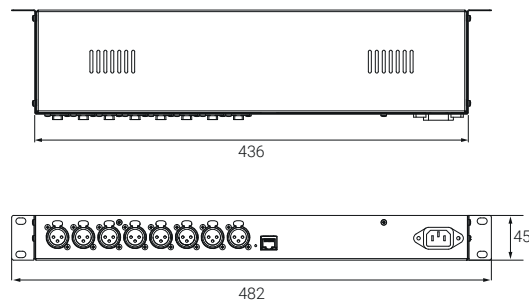
- Art-Net™ input signal
- 8-PORT DMX512 output signal
- High speed ARM processor
- Web configuration interface
- Perfect compatibility with all protocol compliant software
- Durable 1U Rack Case
- 100Mbit/s Ethernet speed
- Quick start
- Short circuit and ESD protection on output ports
- Data/Link status information lights
- Universal input voltage range (85~265VAC)
- Short-term plug and unplug of Ethernet cables while it is in operation (Hot plug)
- Plug and play operation without initial reconfiguration

## Technical Specifications

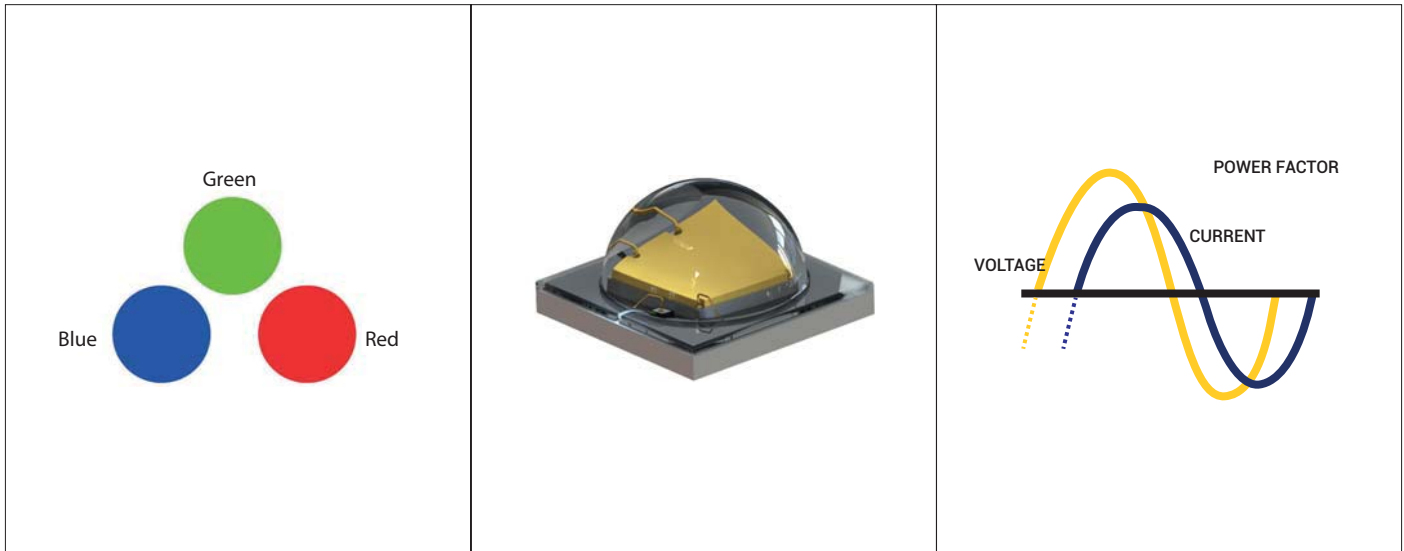
Specification	Parameter	Explanation
Electrical	Input Voltage	85~265 V AC
	Input Voltage Frequency	47~63Hz
	Power Input Socket	Standard 3-pin 250V 10A IEC C14 Socket
	Power consumption	2.4W
Functional	Data Input Signal	Art-Net™
	Data Input Socket	RJ45
	Ethernet Speed	10/100 MBit/s
	Ethernet Features	Auto-Neg. , Auto-MDIX
	Data Output Signal	DMX512
	Data Output Socket	3-Pin Female XLR Socket
	Data Output Ports	8
	Total DMX Channels	4096
Physical	Rack Size	19" X 1U
	Dimensions	479.4mmx110.8mmx45mm
	Operating temperature	-10°C ~ 60°C
	IP Class	IP20

**Stock code:** 33600759

## Technical drawing



## General and Technical Information



## General and Technical Information

**Concept of Light**

**Concept of Color**

**Luminous Flux**

**Light Intensity**

**LUX**

**Luminance**

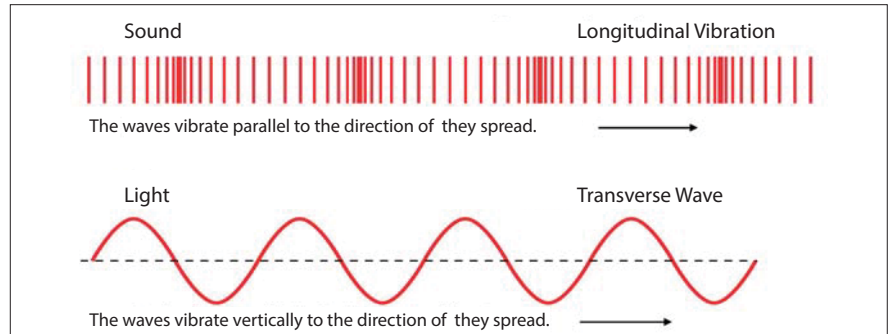
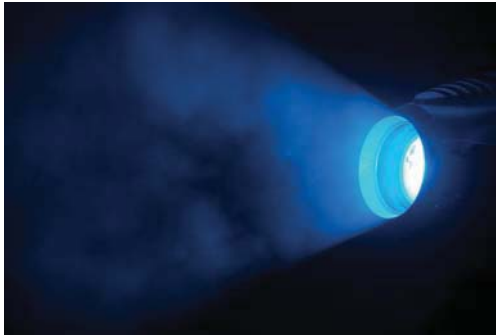
**LED Technology**

**Power Factor**

**Protection Class**

## 1) Concept of Light

According to the wave theory, light is a form of electromagnetic energy (radiation) that can be perceived by human eye. It spreads in the form of wave or photon. Light has a particular frequency, speed and wavelength. By the continuum of electromagnetic waves arranged according to frequency and wavelength, electromagnetic spectrum is obtained.



### • Natural sources of Light

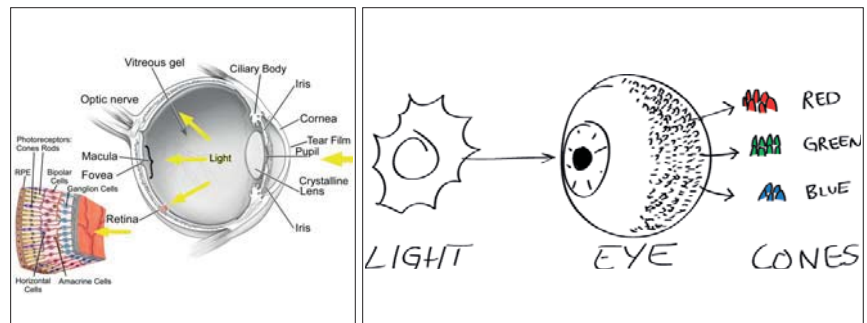


### • Artificial sources of light



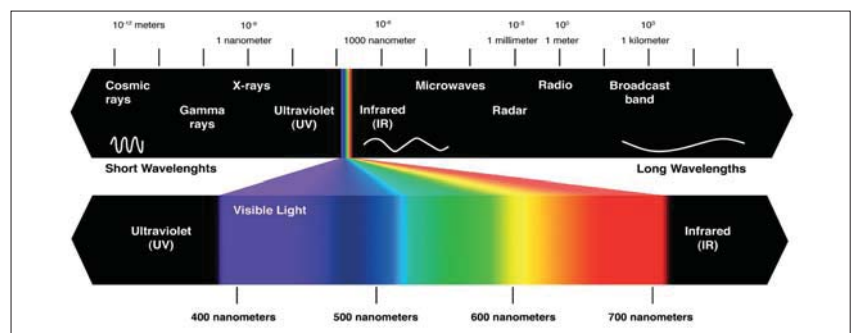
## 2) Concept of Color

Color is a perception that occurs when the light reaches the retina. This perception is characterized by the fact that the light strikes the material and is partly absorbed and partially reflected, which is called color tone or color. A photoreceptor cell is a specialized type of neuron found in the retina which converts light into electrical signals. There are two general types of photoreceptors, called rods and cones. And the 3rd cell type which is invented in 90's is "ganglion". The ganglion cells carry electrical signals generated by the photoreceptors cells to the visual center of the brain.



### Visible Light:

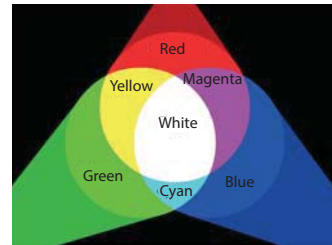
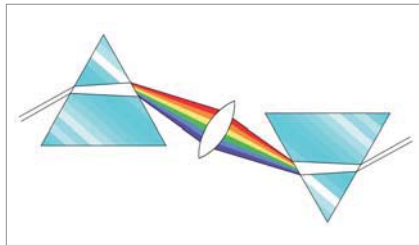
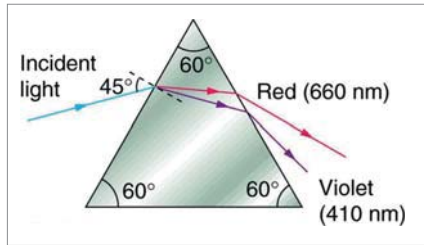
The electronic spectrum range that can be perceived by the human eye. This wavelength is referred as visible light or light. Even though the limits of the interval are not precisely defined, an average human can detect wave lengths between 400 and 700 nm.



# General and Technical Information

## • White Light:

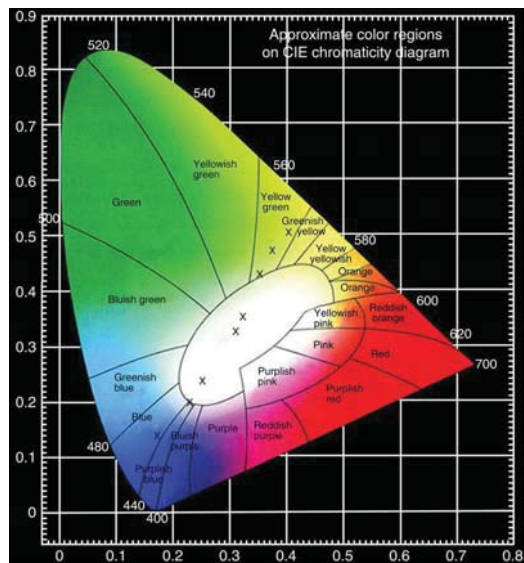
The white light is a mixture of the colors of the visible spectrum. The white light can be made by the combination of red light, green light and blue light. Another method of obtaining white light with LED is applying a phosphor layer on the LED which produces blue light.



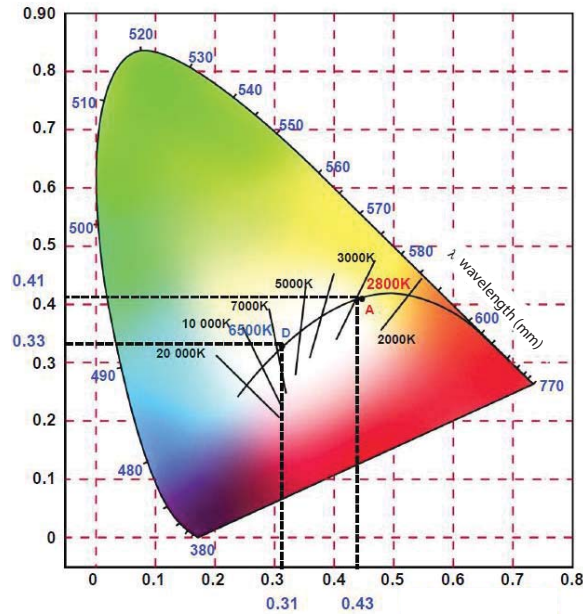
When all the wavelengths are merged, white light occurs again.

## • CIE:

CIE Chromaticity Diagram

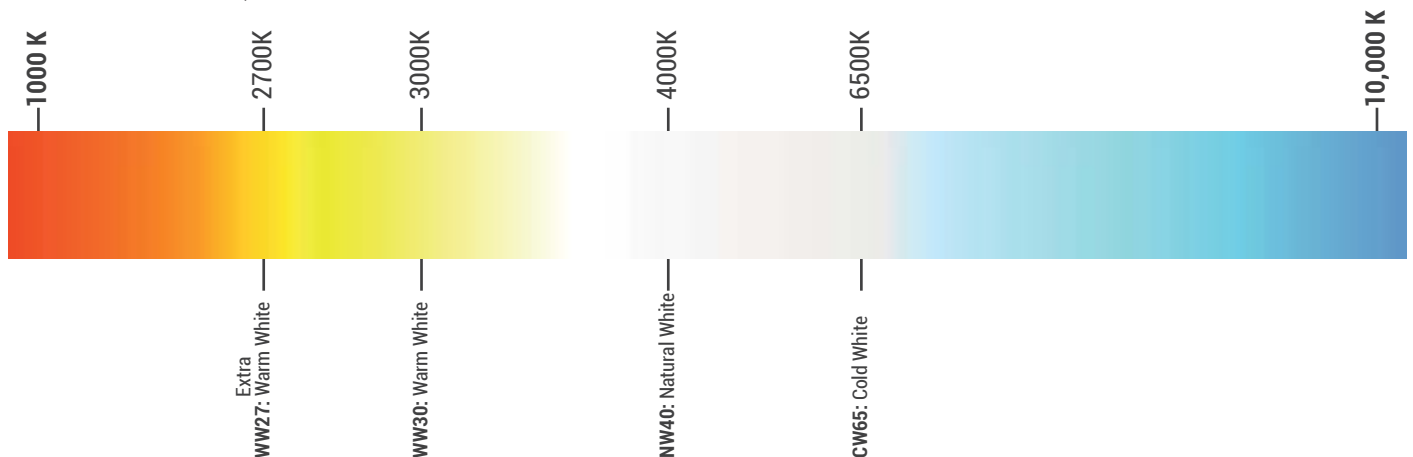


CIE Chromaticity Diagram - Planck Curve



## • Color Temperature

Technically, It is a numerical value to the color emitted by a light source, measured in degrees of Kelvin. The Kelvin Color Temperature imagines a black object being heated to the point that the object will begin to glow. As it gets hotter its glowing color will shift from shades of red up to white hot. Color temperature has an effect on human psychology and appropriate color temperature should be chosen according to the properties and function of the place to be illuminated





# General and Technical Information

## • CRI Color Rendering Index:

Color rendering refers how close the color provided by an artificial light source can be to colors provided by an ideal or natural light source. CRI Index evaluates color between 0-100 as 100 is considered the CRI value of the daylight. CRI is also referred as Ra and this method evaluates 8 or 15 colors.



## The Classification of CRI:

1A and 1B class lamps are used where accurate color matching and accurate color judgement is very important such as printing industry, museums, and art galleries.

2A and 2B class lamps are used where the moderate color rendering is enough and it is important to see the correct color or where the light will be continuously used.

3rd class lamps are used where accurate color rendering is less important but the color shifting is not acceptable.

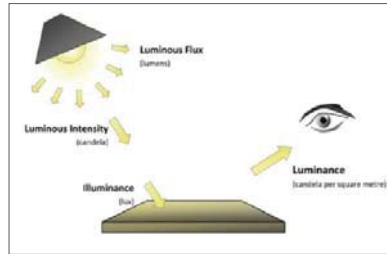
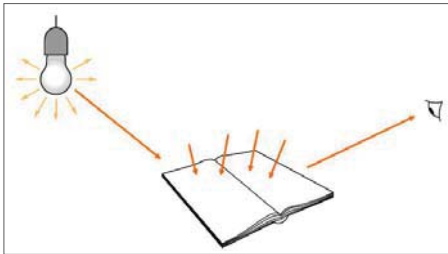
4th class lamps are used where accurate color rendering is not important or color shifting is acceptable.

CRI Class		Ra
Excellent	1A	Ra>90
	1B	80<Ra<90
Good	2A	70<Ra<80
	2B	60<Ra<70
Not Bad	3	40<Ra<60
Bad	4	20<Ra<40

# General and Technical Information

## 3) Luminous Flux

Luminous flux is a quantitative expression of the brilliance of a source of visible light. It is the energy flow comes off of a light source and is evaluated according to the spectral sensitivity curve .



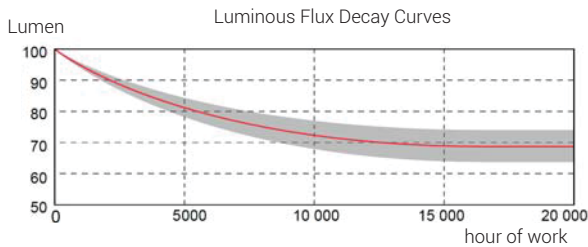
### • Efficiency Factor:

There is not a constant ratio between the power of the light source draws from the network and the luminous flux. The ratio of luminous lux to power is called efficiency factor and is shown as lm/W. Efficiency factor may be different for LED itself and for the fixture.

$$\frac{\text{LUMINOUS FLUX}}{\text{CONSUMED ELECTRICAL POWER}} \rightarrow \text{EFFICIENCY FACTOR (lm/W)}$$

### • Lifespan:

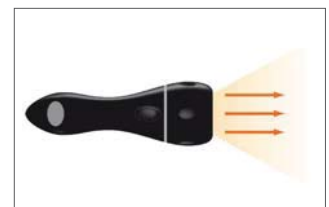
Indicates the average hours the lamp can be used under the specified standard conditions.



## 4) Light intensity

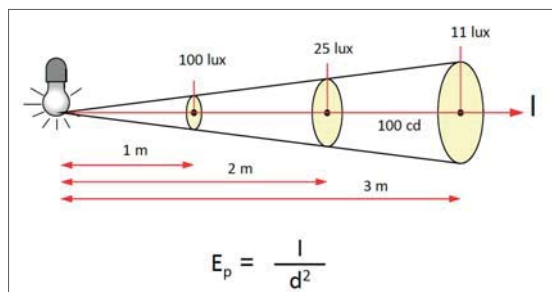
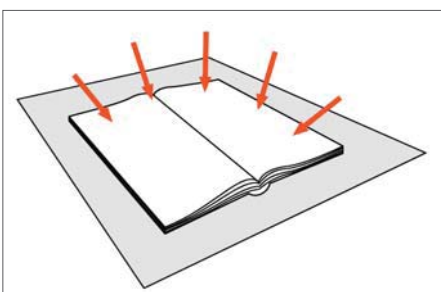
A measure of the amount of light that a point source radiates in a given direction. It is expressed by the luminous flux leaving the source in that direction per unit of solid angle. It is referred as "I" and the unit for light intensity is candela (cd)

Sample Values	
Candle	1 candela
100W incandescent	110 candela
Sun	$3 \times 10^{27}$ candela



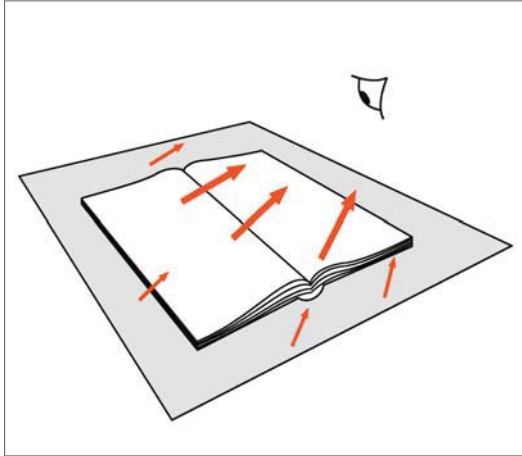
## 5) LUX

Luminous flux per unit area. Symbol is "E" and the unit is lux(lx).



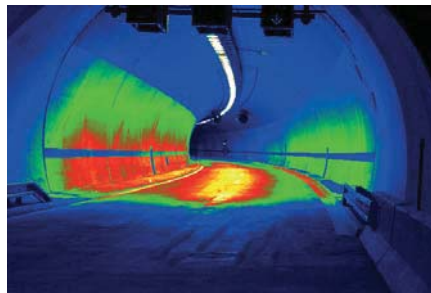
## 6) Luminance

It is a measure of the luminous intensity per unit area of light travelling in a given direction. Symbol is "L" and the unit is candela perm<sup>2</sup> (cd/m<sup>2</sup>).

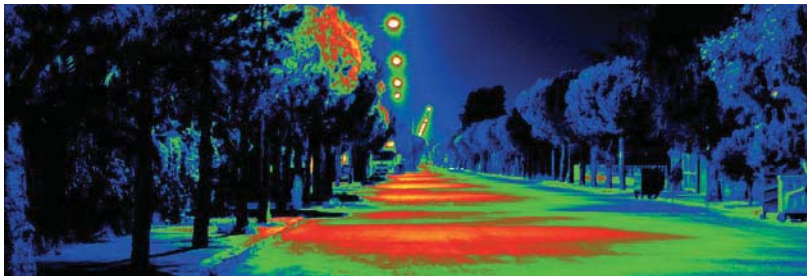


Luminance [cd/m <sup>2</sup> ] Sample values	
Sun's Surface	1650 Mcd/m <sup>2</sup>
Incandescent Lamp	7 000 000 cd/m <sup>2</sup>
Blue / Overcast sky	2000/8000 kcd/m <sup>2</sup>
Fluorescent Lamp	5000-15000 cd/m <sup>2</sup>
Office Table	100 cd/m <sup>2</sup>
Road Illuminance	0.5 -2.0 cd/m <sup>2</sup>

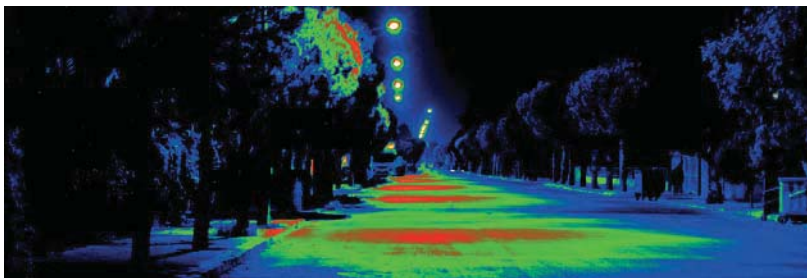
### • Measurement



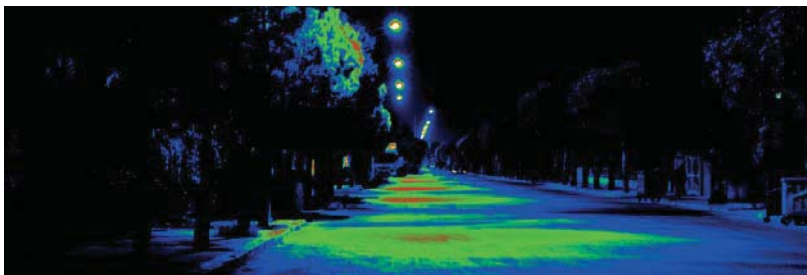
Luminansmetre



New system



one-year system



two-year system

# General and Technical Information

## 7) LED Technology

LED stands for "Light Emitting Diode" and is the latest technology in energy efficient lighting. The first light emitting diodes were discovered in 1920 in Russia when a radio technician named Oleg Losev realized that the diodes used in the receiver of the radios were emitting light. Nick Holonyak was the one who developed the first LED (light emitted diode) to produce light.

LEDs are a semiconductor electronic circuit element developed after variety applications of filament technologies. They produce light by photons which are simply the light energy that negative electrons losing while running into a positively charged hole. Depending on the semiconductor, these photons have different wavelengths and wavelengths determine the light color a human eye can perceive. (400nm-700nm)

LEDs, as a light source, become a revolution that changed the traditional production structure of incandescent lamp dramatically with the advantage of its small dimensions allowing variety of different designs.

According to production and mounting options, different LED "package type"s are commercially available such as DIP (Dual Line Package), High Power, SMD (Surface Mount device), COB (Chip On Board). The "package type" refers to the way LEDs semiconductor integrated circuit is packaged inside the LED.

LEDs last longer. Their lifespan can reach up to 100.000 hrs depending on the parameters they are designed for. The economical life for high efficiency LED products is over 50.000 hrs. Given the approximate lifespan is 50.000 hrs, a luminaire operated for 4 hrs a day has 35 years lifespan. Thus, the maintenance requirement is less than all other lighting requirements.

In contrast to traditional lighting, LED lights can be switched off and on frequently and without affecting the LEDs lifespan or light emission.

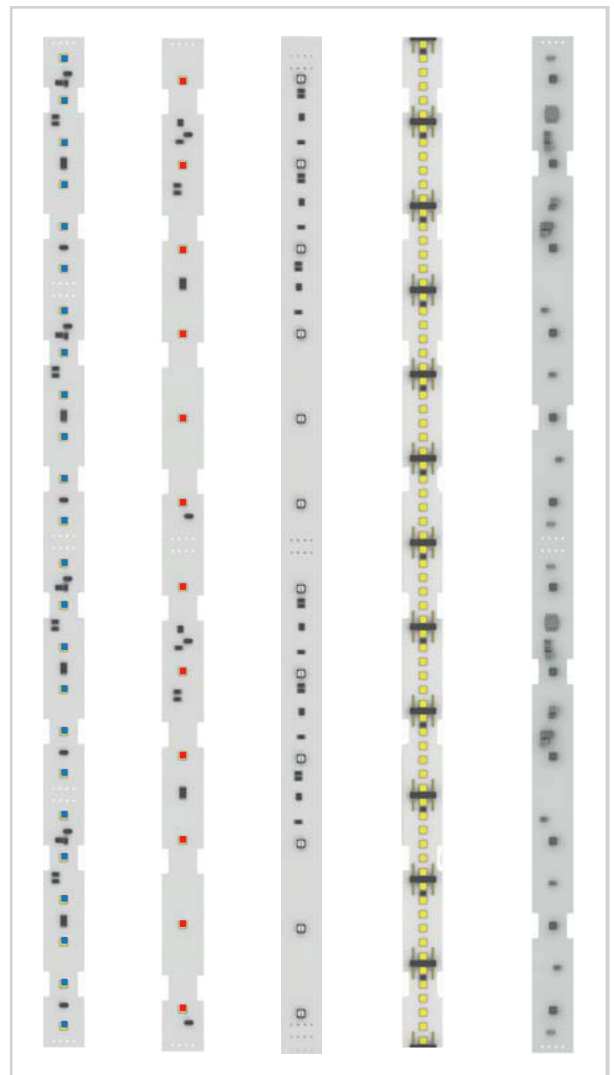
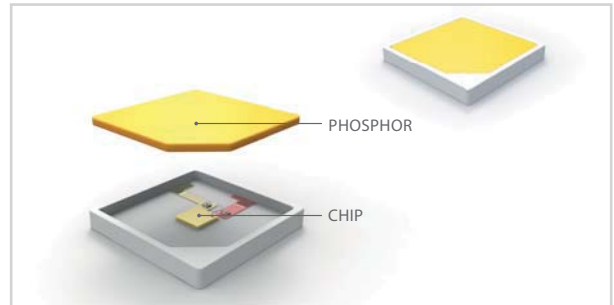
LEDs can withstand the tough conditions since they are durable, and resistant to shock, vibrations, and external impacts. Thus, they are great fit for outdoor or transportation lighting systems.

LED systems are more compatible with automation and control systems than other lighting systems. With low current and voltages, it can be dimmed within 0% and 100%, and any kind of animation can be applied with RGB, RGBA, RG-BW systems.

LED lighting features close to no UV emission because of their monochromatic structure and they do not harm organic or polymer materials and can be safely used for UV sensitive environments.

LEDs emit light in a specific direction. They are not diffused light sources, therefore they are more efficient and optical control is easier. It is possible to reach a light distribution of lower than 10 degrees and of higher than 180 degrees by using lenses and reflectors.

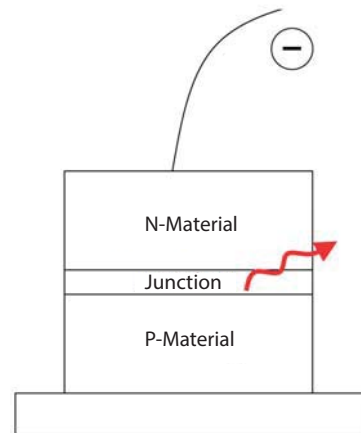
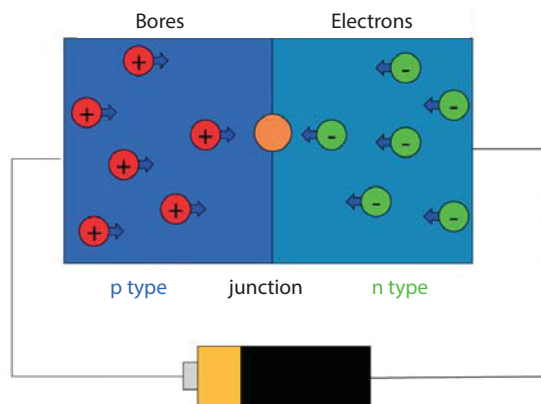
LEDs do not contain mercury as opposed to fluorescent lamps. Unlike metal halides and halogen lamps, they do not contain halogen. That being the case and with the addition of energy efficiency, LEDs are considered the most environmental light sources.





## • How Does LED Work?

A LED is a small light bulb that easily fits into an electrical circuit. These light bulbs do not get hot and they are illuminated by the constant movements of the electrons located in the semiconductor material. The average light emitting diode does this through what is known as a "p-n junction", which is formed of a p-type semiconductor (which contains positively charged carriers) and an n-type semiconductor (which contains electrons). The connection between these two types of semiconductors is known as a "p-n junction". These junctions are the building blocks of every semiconductor electronic device. Light emitting diodes are modified in order to produce a form of light radiation, and the electrons from n-type semiconductors simply connect to the carriers in the p-type semiconductor, and the electricity flow is unidirectional: it is possible only from n to p, not the other way round. When the junction is formed, electrons located in the diode change their state and start to emit photons: electrons change their orbit by moving from a higher orbit to a lower one – when they do that, they automatically lose energy in the form of light. The more energy is lost, the more powerful the photons of light. This is when the color starts to change and light is being emitted by the LED.



## • What does 50.000 hrs imply?

LED's life expectancy is approximately 50.000 hrs.

- 137 years of lifespan, if the light operates 1 hr.
- 68,5 years of lifespan, if the light operates 2 hrs.
- 34,2 years of lifespan, if the light operates 4 hrs.
- 22,8 years of lifespan, if the light operates 6 hrs.
- 17,1 years of lifespan, if the light operates 8 hrs.
- 11,4 years of lifespan, if the light operates 12 hrs.
- 5,7 years of lifespan, if the light operates 24 hrs.

LED Light Source: Economic Life

The amount of time that a minimum acceptable light is provided by a light source for a given application area. It is a useful tool for planning purposes.

General Illumination Applications: The standard is %70 of the original luminous flux. (L70)

### Comparison between the lifespan of conventional lamps and LED

Light Source	Lifespan( hr)
Incandescent	750 - 2,000
Halogen	2,000 - 4,000
CFL	8,000 - 10,000
Metal Halide	7,500 - 20,000
Linear Fluorescence	20,000 - 30,000
LED White Light	50,000(L70)*

\*LED systems do not dim down completely. After 50,000 hours, only 50% of the LEDs used still achieve 70% of their original luminous flux. Which means, black out is never an option with LED systems. However other light sources are unable to emit light at the end of their life cycle.

# General and Technical Information

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## Advantages of LED;



**Efficiency:** LEDs produce more light per watt compared to incandescent and fluorescence.

**Color:** LEDs can emit the intended light color without the use of color filters which is required for conventional lighting methods.

**Size:** LED can be very small (smaller than 2mm) and can easily be mounted on circuit boards. This allows to design small fixtures.

**Time:** LED lights brighten up instantly. That makes it ideal for applications where lights should be switched off and on frequently as LED's lifetime or light emission are not affected by it.

**Lifespan:** LEDs have an outstanding operational life time expectation of up to 50.000 hours. Whereas fluorescence lights have an operational life time approximately 1000-2000 hrs and Incandescent bulbs have 10.000-15000hrs

**Resistance:** Unlike fragile incandescent and fluorescence bulbs that have solid state components, LEDs have stronger external resistance.

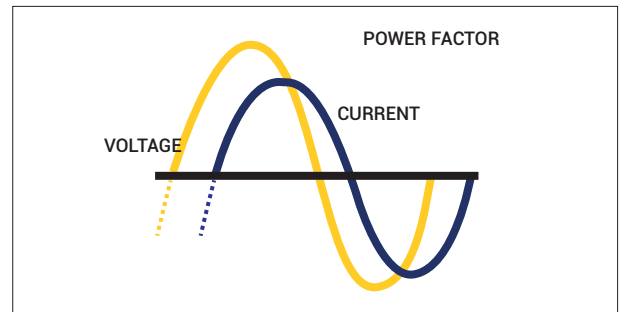
**Focus:** LED is designed to focus its light and can be directed to a specific location without the use of an external reflector, achieving a higher application efficiency than conventional lighting.

**Environment:** LEDs do not contain mercury contrary to fluorescent lamps.

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## 8) Power Factor

Power factor is the efficiency ratio of the energy used in the workplace and houses. power factor measurement indicates that all the incoming current is used to be reached to 1.0 value. A value of 0.80 indicates a 20% efficacy ratio. This means that only 80% of the incoming current does useful work and 20% is wasted through inductive equipment.



### The Importance of Power Factor:

Power factor is the relationship (phase) of current and voltage in AC electrical distribution systems. Under ideal conditions current and voltage are "in phase" and the power factor is "100%." If inductive loads (motors) are present, power factor less than 100% (typically 80 to 90% can occur).

Low power factor, electrically speaking, causes heavier current to flow in power distribution lines in order to deliver a given number of kilowatts top an electrical load.

Power factor correction is the process of compensating for the lagging current by creating a leading current by connecting capacitors to the supply.

The benefits that can be achieved by applying the correct power factor correction are:

Environmental benefit.

Reduction of power consumption due to improved energy efficiency.

Reduced power consumption means less greenhouse gas emissions and fossil fuel depletion by power stations.

Reduction of electricity bills Extra kVA available from the existing supply Reduction of I<sup>2</sup>R losses in transformers and distribution equipment

Reduction of voltage drop in long cables.

Extended equipment life.

Reduced electrical burden on cables and electrical components.

### Active PFC

Active PFC circuitry can boost power supplies up to PFC 0.99. With passive power factor correction, it may be around 0.75, and with active power factor correction, figures better than 0.95 may be expected. If there is a low power factor in the illumination, harmonic distortions would occur. In order to have power quality, the harmonic distortion must be low and the power factor must be high. International standards such as the EN54000-3-2/A2 set specifications for the power quality of electrical and electronic equipment thus the products that do not offer power factor correction option are not allowed in EU countries. According to IEC standarts, similar restrictions may be prevailed in Turkey as well.

## 9) International Protection (IP) Classification

### Solid Particule Protection

<b>0</b>		Not protected
<b>1</b>		Any object bigger than 50 mm
<b>2</b>		Any object bigger than 12 mm
<b>3</b>		Any object bigger than 2,5 mm
<b>4</b>		Any object bigger than 1 mm
<b>5</b>		Dust protected
<b>6</b>		Dust Tight

### Liquid Particule Protection

<b>0</b>		Not protected
<b>1</b>		Dripping water
<b>2</b>		Vertically dripping water at an angle up to 15°
<b>3</b>		Water falling as a spray at any angle up to 60°
<b>4</b>		Splashing water
<b>5</b>		Water jets
<b>6</b>		Powerful water jets
<b>7</b>		Immersion up to 15 cm
<b>8</b>		Immersion beyond 1 m

### IK- Mechanical Impact Resistance

<b>00</b>		No protection
<b>01</b>		7,5 cm 200gr 0,150 Joule
<b>02</b>		10 cm 200gr 0,200 Joule
<b>03</b>		17,5 cm 200gr 0,350 Joule
<b>04</b>		25 cm 200gr 0,500 Joule
<b>05</b>		35 cm 200gr 0,700 Joule
<b>06</b>		20 cm 500gr 1,00 Joule
<b>07</b>		40 cm 500gr 2,00 Joule
<b>08</b>		29,5 cm 1,7kg 5,00 Joule
<b>09</b>		20 cm 5kg 10,00 Joule
<b>10</b>		40 cm 5kg 20,00 Joule



## Protection Against Electric Shocks

### Class I



Items in this class have an earth circuit built in and an earth wire in the plug. Metal parts of the products could potentially cause a hazardous voltage if the basic insulation fails. This basically means that all metal parts of the products need to be earthed via the protective conductor. A Fault in the appliance should trip and over current device like a fuse or circuit breaker protecting the end user.

### Class II



Electrical appliance of class II has two layers of insulating material surrounding live parts or reinforced insulation.

### Class III



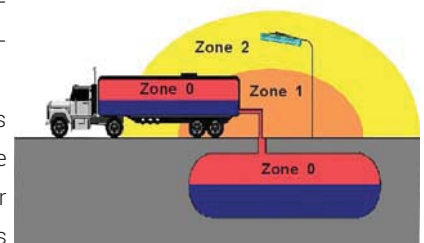
Electrical appliance of class II is designed to be supplied from safety extra-low voltage power source.

## ATEX

In industrial establishments where explosive atmospheres such as gas, dust or flammable substances are present, they are special materials used with the aim of preventing the spark and arc explosion from electric appliances.

"ATEX" is an abbreviation for the ATEX Directive and is also short for "Atmospheres Explosives". It is a set of regulations that are designed to ensure the safety of products being used in explosive environments. Explosive atmospheres are work areas that contain flammable gases, mists or vapours or by combustible dusts which a source ignition can cause explosion. These environments are called Exproof and the electrical apparatus designed to contain explosions or flames produced within them are called exproof electrical apparatus.

Exproof materials have to be used in any environment that an explosive, air and a spark can easily come together and cause an explosion.



### • ATEX Area Classifications/Zoning Definitions

Zone Class	Explosive atmosphere	Min. Equipment integrity Requirements	Certification	94/9/EC Equipment Category
Zone 0 Zone 20*	An area in which an explosive mixture is present continuously or for long periods or frequently.	Equipment must be safe under normal operation, expected and rare malfunction.	Yes (ATEX)	Category 1
Zone 1 Zone 21*	An area in which an explosive mixture is likely to occur in normal operation.	Equipment must be safe under normal operation, expected and malfunction.	Yes (ATEX)	Category 2
Zone 2 Zone 22*	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it is for a short time	Equipment must be safe under normal operation	Yes (ATEX)	Category 3

\*For hazardous areas involving dusts then the above classifications are prefixed with a "2", so zone 1 for dusts becomes zone 21.

Temp. Class	Max. Surface Temp. °C	Max Surface Temp. °F	Area	CENELEC/IEC EN 50014, IEC 79-0	Gases
T1	> 450 °C	842 °F	Mines	I	Metan
T2	300 - 450 °C	572 °F	Industrial Areas	IIA IIB IIC	Propan
T3	200 - 300 °C	392 °F			Aseton
T4	135 - 200 °C	275 °F			Etilen
T5	100 - 135 °C	212 °F			Hidrojen
T6	85 - 100 °C	185 °F			Asetilen

# General and Technical Information



## 10) Illuminance Levels

AREA	GENERAL (Lux)	SPECIAL (Lux)	AREA	GENERAL (Lux)	SPECIAL (Lux)
<b>OFFICES</b>			Fermentation rooms		
General offices	500		Preparation Area	200	
Open offices	750		Baking/Oven rooms	150	
Waiting rooms	200		Cooling & Decoration	250	
Corridors	200		Wrapping/Packaging	150	
IT rooms/Comp. work stations	300		<b>MILLS</b>		
<b>SHOPPING/ RETAIL STORES</b>			Mixing	200	
Window	1000		Packaging	100	
Mall	1000		Goods control	400	
Additional Illumination by a spot	5000		Silo Cleaning	100	
Other areas	500		<b>TRAIN STATIONS</b>		
additional lighting by spot	2500		Waiting Halls	100	
Interior areas stores	300		Ticket booths and offices	400	
Bigger Stores	500		Recreation rooms	150	
Trade Centers	500		Luggage lockers/offices	200	
Other Areas	250		Platforms	100	
<b>WAREHOUSE/STORAGE</b>			<b>WC</b>	100	
places that has lower circulation	25		<b>PARKING STATIONS</b>		
Factory Showrooms			Machine shop	250	
Bulk Storage	50		Working table	500	
Storage of small pcs.	100		Lubrication section	150	
Storage of very small pcs.	200		Lubrication area	250	
<b>MUSEUMS</b>			Washing area	250	
Supplementary lighting for paintings		200	Parking area	50	
Supplementary l. for sculptures and other objects	400		Car showroom	400	
<b>THEATRE</b>			<b>AUTOMOTIVE FACTORY</b>		
Lounge/Foyer	200		Chassis manufacturing	200	
Theatre hall	50		Chassis preparation	400	
Orchestra	100		Upholstery manufacture/assembly	300	
<b>SANCTUARY</b>			General components preparation and assembly	400	
<b>MOVIE THEATRE</b>			Finish & Inspection area	750	
Entrance/Ticket Office	200		<b>PAINTING FACTORY</b>		
Lounge	50		150	1000	
Movie hall	100		<b>PRINTING</b>		
<b>SPORTS ARENA</b>			Matrix making	400	
Stadium	200		Type setting	200	
Football arenas	100		Colour inspection		1000
Recreational	25		Printing areas	250	
Tennis court	250		Layout table	500	
Rink	15		<b>PAPER GOODS</b>		
Rink Tournemant	40		Comparison areas	150	
<b>BAKERY</b>			Paper Machines	200	
Mixing	200		Cutting areas	200	
Kneading	125		Control labs.	400	



# General and Technical Information

## Illuminance Levels

AREA	GENERAL (Lux)	SPECIAL (Lux)
<b>CHEMICAL INDUSTRIES</b>		
Dryer, crystallization	150	
Furnaces, boilers..etc.	150	
Thickening tanks, nitratio..etc.	150	
<b>AIRCRAFT INDURSTIES</b>		
Welding	250	
Spray booth	400	
Machining	400	
Detailed welding	250	2500
Assembly	400	
Finishing	400	
Wings and parts assembly	400	
<b>AIRCRAFT HANGARS</b>		
Testing and repair hangars	250	
Engine maintenance	400	
<b>SOAP INDUSTRY</b>		
Soap powder manufacturing	150	
Branding, packaging	150	
Moulding	250	
<b>TOBACCO FACTORY</b>		
Drying	150	
Preparation	150	
Inspecting and selecting		1000
Cigarette machines	400	
<b>CANNED FOOD INDUSTRY</b>		
Food Sorting	200	
Washing and cleaning	200	
Color sorting		1000
Separating necessary parts	300	
Boxing	300	
Boxing (manual)	200	
Empty box inspection		1000
Box welding	300	
Packaging	150	
<b>MILK INDUSTRY</b>		
Sterilization	150	
Pasteurization	150	
Mould Cleaning	150	
Cooling rooms	150	
Cream Section	150	
Bottle selection	200	
Bottle cleaning/washing	400	
Bottle filling	125	
Labs	400	

AREA	GENERAL (Lux)	SPECIAL (Lux)
<b>SUGAR INDUSTRY</b>		
Cutting Mixing	150	
Centrifuges – purification	150	
Color control	150	
Storing	150	
<b>POWER PLANT</b>		
Combustion air /gas plant	150	
Accumulator room	200	
Boiler maintenance room	400	
Front of the boilers	125	
Fuel supply plant	400	
<b>OUTDOOR LIGHTING</b>		
General Public areas		
Out of residential area, primary traffic road	20	
Main roads between municipalities	15	
Roads between municipalities	10	
Residential area		
Roads for fast circulation in the cities	20	
Nearby roads	20	
Tunnels(all day)	100	
Entrance illumination	1000	
Night illumination	30	
Industrial area, harbor, streets	10	
Expanded shores or bridges	10	
Commercial streets with traffic	10	
Commercial streets with less traffic	7,5	
Residential streets with traffic	7,5	
Residential streets with less traffic	5	
Important dead end streets	15	
Distribution stations	10	
Transportation areas	20	
Warehouse	20	
Observation Illumination	5	
Entrances	50	
Loading platforms	50	
<b>GLASS MANUFACTURING</b>		
Mixing and furnace	150	
Machining	150	
Cutting	200	
Polishing	200	
Chamfer	400	
Etching		1000
Control		1000



# General and Technical Information

## Illuminance Levels

AREA	GENERAL (Lux)	SPECIAL (Lux)
<b>STEEL FACTORY</b>		
Rolling plant	150	
Pipe, tube, wire manufacturing	200	
Galvanizing	200	
Machine room	150	
Quality Control	400	
<b>BLAST FURNACE</b>		
Coal and mine yard	50	
Loading	100	
Control	150	
Furnace flap maintenance	100	
Iron warehouse	50	
Steel factory	150	
<b>SAWMILL</b>		
Rough sawing by machine	150	
High precision machining	200	
Precision machining	400	
<b>WELDING</b>		
General Illumination	250	
Precision arc welding	2500	
<b>FOUNDRY</b>		
Core (precision)	350	
Core	200	
Foundry hall	200	
Cleaning	200	
Control		1000
<b>SHOES FACTORY</b>		
Cutting, Sorting	1000	
Modeling	1000	
Cutting	1000	
Rubber preparation	125	
Glazing	200	
Cutting, Hard Rubber	200	
Sole preparation	400	
<b>MACHINERY SHOP</b>		
Rough dressing	250	
Finishing cut & polishing	400	
Detailed finishing cut	2500	
<b>TEXTILE/ CLOTHING INDUSTRY</b>		
Fabric Inspection		
Light color fabrics	1500	
Dark color fabrics	2500	
Cutting/Ironing		
Light color fabrics	500	

AREA	GENERAL (Lux)	SPECIAL (Lux)
Dark color fabrics	1000	
Sewing		
Light color fabrics	750	
Dark color fabrics	1500	
Coloring		
Separating, washing, cleaning	200	
Inspection, stain cleaning	1500	
Ironing		
Machine or by hand	500	
Folding	750	
<b>TEXTILE INDUSTRY</b>		
Cotton		
Carding, winding	100	
Spinning, weaving	200	
Milling	400	
Inspection		
Fixed parts	400	
Fast moving parts	1500	
Silk and synthetic fabric	100	
Working with dark color thread	750	
Weaving	400	
Wool		
Carding, winding	100	
Inspection	400	
Spinning, sizing	200	
Milling		
White	200	
Color	400	
<b>CERAMICS INDUSTRY</b>		
Grinding,Filtering,Drying	100	
Forming,Finishing ,Cleaning	150	
Coloring,polishing	400	
Precision coloring,polishing	750	





## 11) Road Illuminance

Because the luminance design method depends on road surfaces being made visible by light reflected from roads, the reflection specifications of the pavement becomes critical for the lighting design process. The R tables refer to pavement reflection characteristics under dry road-surface circumstances only. The table is based on two specifications ; S1, the specularity of pavement shininess and Qo, the lightness of a road's surface. Aside from R tables, N tables are applied in countries that uses additional whiteners.

Road Class	q <sub>o</sub>	S1	S2
R1	0.10	0.25	1.53
R2	0.07	0.58	1.80
R3	0.07	1.11	2.38
R4	0.08	1.55	3.03
N1	0.10	0.18	1.30
N2	0.07	0.41	1.48
N3	0.07	0.88	1.98
N4	0.08	1.61	2.84
CI	0.10	0.24	-
CII	0.07	0.97	-

### Road Class Specification of Road Material

R1	Concrete surface, asphalt surface with a minimum of 15% of the aggregates composed of artificial brightener aggregates.
N1	
R2	A combination of diffuse and specular reflectances characteristic of asphalt surfaces with aggregate composed of a minimum of 60% gravel of size greater than 10 mm. Also asphalt surfaces composed of 10% - 15% artificial brightener in aggregate mix.
N2	
R3	Slightly specular reflectance typical of asphalt surfaces with dark aggregates, rough texture and some months of use.
N3	
R4	Mostly specular surface typical of very smooth asphalt texture.
N4	



# General and Technical Information

## International Lighting recommendations for motor traffic

Lighting Class	Description of the Road
M1	High speed roads with separate carriageways, motorways, express roads
M2	<ul style="list-style-type: none"> <li>• Speed <math>\geq 90</math> km/h ;</li> <li>• Speed <math>&gt; 90</math> km/h ;</li> </ul>
M1	High speed roads, district distributor roads, radial roads.
M2	• 50 km/h Speed $\geq 90$ km/h
M3	<ul style="list-style-type: none"> <li>• 50 km/h Speed <math>&lt; 90</math> km/h</li> <li>• Speed <math>&lt; 50</math> km/h;</li> </ul>
M3	Urban traffic routes, local distributor roads, Residential major access roads.
M4	• Speed $\geq 50$ km/h
M4	• Speed $\geq 50$ km/h
M5	• Speed $< 50$ km/h
M5	• Speed $< 50$ km/h
M4	Residential Roads
M5	• 30 Hz $\leq 50$ km/h
M5	• 30 Hz $\leq 50$ km/h
M5	• Speed $< 30$ km/h
M6	• Speed $< 30$ km/h

## Lighting Requirements for Motor Traffic

Lighting Class	$L_{ort}$ ( cd/m )	$U_0$	$U_1$	TI (%)	SR
M1	$\geq 2.0$	$\geq 0.4$	$\geq 0.7$	$\leq 10$	$\geq 0.5$
M2	$\geq 1.5$	$\geq 0.4$	$\geq 0.7$	$\leq 10$	$\geq 0.5$
M3	$\geq 1.0$	$\geq 0.4$	$\geq 0.5$	$\leq 15$	$\geq 0.5$
M4	$\geq 0.75$	$\geq 0.4$	$\geq 0.5$	$\leq 15$	$\geq 0.5$
M5	$\geq 0.50$	$\geq 0.35$	$\geq 0.4$	$\leq 15$	$\geq 0.5$
M6	$\geq 0.30$	$\geq 0.35$	$\geq 0.4$	$\leq 15$	$\geq -$







Historical Fire Building, İstanbul

**Lenses**

**Configuration Codes**

**Electronic Control Accessories**

**Emergency Lighting Kit**

**Underwater Cable Joint**

**Light Color**

**Power Ratings**

**Pictograms for Field of Application**

**Contact**

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# Lenses

<b>XN: Extra Narrow Angle</b>	<b>N: Narrow Angle</b>	<b>M: Medium Angle</b>	<b>W: Wide Angle</b>	<b>XW: Without lens</b>	<b>ME: Medium Elliptical</b>	<b>NA: Narrow Asymmetrical</b>	<b>MA: Medium Asymmetrical</b>
<b>XN (X Narrow):</b> 1° - 10° Açılar	<b>N (Narrow):</b> 11° - 25° Açılar	<b>M (Medium):</b> 26° - 50° Açılar	<b>W (Wide):</b> 51° - 90° Açılar	<b>XW (Wide):</b> 91° - 120° Açılar	<b>A (Asymmetrical):</b> 30x50°	<b>NA (Narrow Elliptical):</b> 10x30°	<b>MA (Medium Elliptical):</b> 30x50°
<b>XN: Extra Narrow Angle</b>	<b>N: Narrow Angle</b>	<b>M: Medium Angle</b>	<b>W: Wide Angle</b>	<b>XW: Without lens</b>	<b>ME: Medium Elliptical</b>	<b>NA: Narrow Asymmetrical</b>	<b>MA: Medium Asymmetrical</b>

# Configuration Codes

Current	Body material	Light Color	Dimensions	Additional pieces	Housing color	IP class	Junction	Cable direction	Mounting	Optic & Lens	PCB & LED & Power	LED Lin density	Control System	Product type	Upper pieces	Voltage	Power						
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>	<b>V</b>	<b>W</b>	<b>Y</b>	<b>Z</b>

Configurations codes differ according to product options.  
The configuration codes found in our catalogue are the ones we use in our order system in Fiberli.



# Electronical Control Accessories

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## **PWM (Pulse Width Modulation):**

Pulse Width Modulation, or PWM, is a technique for getting analog results with digital means. Digital control is used to create a square wave, a signal switched between on and off. This on-off pattern can simulate voltages in between full on (5 Volts) and off (0 Volts) by changing the portion of the time the signal spends on versus the time that the signal spends off. The duration of "on time" is called the pulse width. To get varying analog values, you change, or modulate, that pulse width. If you repeat this on-off pattern fast enough with an LED for example, the result is as if the signal is a steady voltage between 0 and 5v controlling the brightness of the LED.

## **INV PWM (Invert Pulse Width Modulation):**

It works as the inverse of the PWM signal.

## **DMX (Digital Multiplex) :**

DMX is a lighting control protocol which allows users to have ultimate control over their lighting needs. DMX controls the lighting speed, dim level and color settings of luminaires by controlling master and slave devices which provides light animation. The DMX signal consists of 512 addresses and 170 channels can be controlled as RGB.

## **STD (Standard):**

Non controllable led lighting products are called standard. They can only be turned on and off manually. Can not be applied an external signal.

## **DALI (Digital Addressable Lighting Interface) :**

Digital Addressable Lighting Interface and is a protocol set out in the technical standard IEC 62386. DALI was developed as an international industry standard for intelligent and easy management of lighting equipment.

## **0-10 V DIM:**

It is an electronic lighting control signaling system. Low voltage 0-10V dimmers use a low voltage 0-10V DC signal connected to each LED power supply or Fluorescent ballast. 0-10V dimming applies a direct current voltage (DC) between 0 and 10 Volts to produce light at varying intensity levels. At 10V, the lights controlled by the dimmer are at 100% brightness. At 1V, the lights are at 10% measured brightness, which may actually be perceived as 32% brightness.

## **Triac:**

The triac is a developed version of the thyristor. While the thyristor can only control current over one half of the cycle, the triac controls it over two halves of an AC waveform. Triacs are widely used in AC power control applications. They are able to switch high voltages and high levels of current, and over both parts of an AC waveform.

## **RC (Remote Control):**

Radio-frequency (RF) remote controls transmit radio waves that correspond to the binary command for the button you're pushing. A radio receiver on the controlled device receives the signal and decodes it. The biggest advantage of radio-frequency remote control is of course the coverage which can be 30 meters. And also the signals can go through the solid objects such as walls.

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## Emergency Lighting Kit



41000550



41000550

### Emergency Lighting Kit 3000mA 220V 3h (STL-ECK015W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 220V AC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 12V / 3000 mAh
Dimensions	: 120 x 200 x 53 mm



41000549



41000549

### Emergency Lighting Kit 3000mA 12-60V 3h (STL-ECK034W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 220V AC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 6V / 3000 mAh
Dimensions	: 120 x 200 x 33 mm



41000548



### Emergency Lighting Kit 3000mA 24V 3h (STL-ECK010W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 24V DC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 6V / 3000 mAh
Dimensions	: 120 x 200 x 33 mm

## Underwater Cable Joint



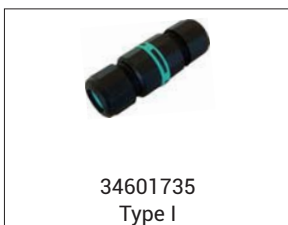
33600463  
Single Outlet Joint

Cable diameter w/adaptor	: Ø6 - Ø9
Cable diameter w/o adaptor	: Ø10 - Ø12
IP class	: IP68
Nominal Current and Voltage	: 16A / 250V AC
Operating Temperature	: -15° ... +60°C
Wiring	: Max. three-pole



33600464  
Dual Outlet Joint

Cable diameter w/adaptor	: Ø6 - Ø9
Cable diameter w/o adaptor	: Ø10 - Ø12
IP class	: IP68
Nominal Current and Voltage	: 16A / 250V AC
Operating Temperature	: -15° ... +60°C
Wiring	: Max. four-pole



34601735  
Type I

Cable diameter w/adaptor	: 7.0 mm - 12.0 mm
IP class	: IP68 / 5bar
Nominal Current and Voltage	: 17.5A 450V
Operating Temperature	: -40° ... +125°C
Wiring	: Max. four-pole



# Underwater Cable Joint



Cable diameter (min.-max.) : 0,5mm - 2mm  
 IP class : IP68 / 5bar  
 Operating Temperature : -30° ... +80°C  
 Wiring : Max. five-pole



Max. Cable diameter : 3x1,5mm<sup>2</sup> - 5x1,5mm<sup>2</sup>  
 Min. Cable diameter : 3x4mm<sup>2</sup> - 5x2,5mm<sup>2</sup>  
 IP class : IP68 / 2bar  
 Nominal Current and Voltage : 250V AC  
 Operating Temperature : -20° ... +125°C  
 Wiring : Max. 5 Kutuplu



Max. Cable diameter : 2.5 mm<sup>2</sup>  
 Minimum Cable diameter : 5,5 mm  
 Maksimum Cable diameter : 8,5 mm  
 IP class : IP68  
 Nominal Current and Voltage : 16A / 250V AC  
 Operating Temperature : -40°C ... +105°C  
 Wiring : Max. three-pole

## Light Color

Standard products may be produced according to the following Kelvin temperatures.

Standard Monocolor products;

● WW30: Warm White	3000K
● NW40: Natural White	4000K
● CW65: Cold White	6500K

May be a deviation of ±200K

Custom Monocolor products;

● WW22: Extra Warm White	2200K
● WW24: Extra Warm White	2400K
● WW27: Extra Warm White	2700K
● CW50: Extra Cold White	5000K

May be a deviation of ±200K

Please contact your customer representative on feasibility of color temperature values.

Polimer applied products;

● WW27: Extra Warm White	2650K-2850K
● WW30: Warm White	3000K-3400K
● NW40: Natural White	3600K-4500K
● CW65: Cold White	6500K-7200K

Can be between the values above.

Standard Monocolor products with other color options.

● R: Red	625nm
● G: Green	525nm
● B: Blue	465nm
● A: Amber	590nm

May be a deviation of ±5nm

## Power Values

All standard products may be produced in different power options. With the developments in LED technology the power values are constantly decreasing and the efficiency is increasing. On the other hand the power options may vary according to color tone.



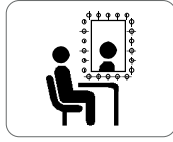
While WH284 CW consumes 210W,  
 WH284 Amber consumes 150W



While AC5N 12-24V CW consumes 210W,  
 AC5N 12-24V Blue consumes 150W



AYNA ÜSTLERİ  
MIRROR TOPS



MAKYAJ ODALARI  
MAKE UP ROOMS



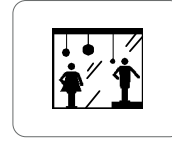
RESİM VE TABLOLAR  
PAINTINGS



DEKORATİF OBJELER  
DECORATIVE OBJECTS



YATAK BAŞLIKLARI  
BED HEADS



VİTRİNLER  
SHOWCASES



MAĞAZALAR  
STORES



BUTİKLER  
BOUTIQUES



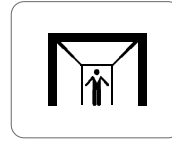
OFİSLER  
OFFICES



OTELLER  
HOTELS



OKULLAR  
SCHOOLS



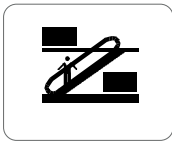
KORİDORLAR  
AISLES



TOPLANTI SALONLARI  
MEETING HALLS



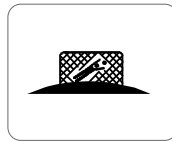
RESTORAN / CAFE  
RESTAURANTS / CAFE



ALIŞVERİŞ MERKEZLERİ  
SHOPPING CENTERS



MARKETLER  
MARKETS



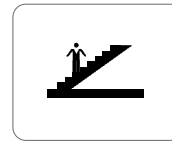
STADYUMLAR  
STADIUMS



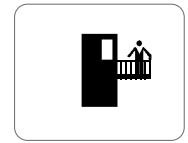
KAPALI SPOR SALONLARI  
CLOSED SPORT COMPLEXES



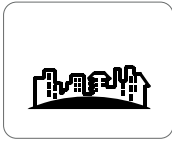
AÇIK SPOR SALONLARI  
OPEN SPORT COMPLEXES



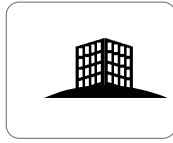
MERDİVENLER  
STAIRS



BALKONLAR  
BALCONIES



EVLER  
HOUSES



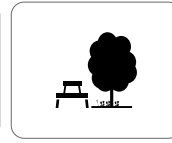
BİNA CEPHESİ  
FACADES



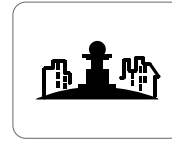
PLAZALAR/İŞ MERKEZLERİ  
PLAZA/BUSINESS CENTER



BİNA ÇEVRESİ  
BUILDING SURROUNDINGS



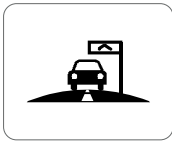
PARKLAR  
PARKS



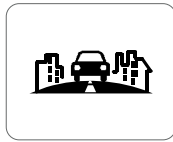
MEYDANLAR  
SQUARES



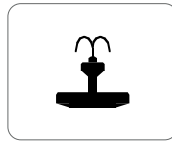
HAVAALANLARI  
AIRPORTS



OTOYOLLAR  
HIGHWAYS



ŞEHİR YOLLARI  
URBAN ROADS



FİSKİYE  
FOUNTAIN



YÜZME HAVUZLARI  
SWIMMING POOL



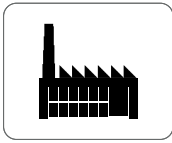
JAKUZZİ  
JACUZZI



SAUNA



WC / BANYOLAR  
SHOWERS



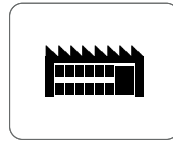
FABRİKA VE ATÖLYELER  
PLANTS WORKSHOPS



LABORATUVARLAR  
LABORATORIES



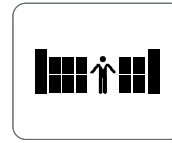
GEMİLER  
SHIPS



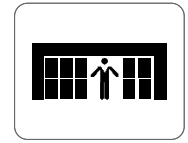
SANAYİ TEŞİSLERİ  
INDUSTRIAL PLANTS



TÜNELLER  
TUNNELS



AÇIK DEPOLAR  
OPEN WAREHOUSES



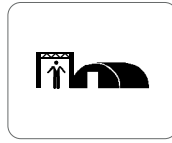
KAPALI DEPOLAR  
CLOSED WAREHOUSES



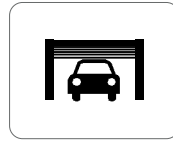
AMELİYATHANELER  
OPERATION ROOMS



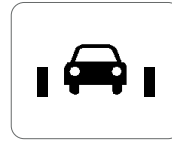
ENDÜSTRİYEL MUTFAKLAR  
INDUSTRIAL KITCHENS



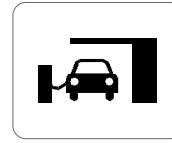
ŞANTİYELER  
CONSTRUCTION SITES



KAPALI OTOPARKLAR  
CLOSED CARPARKS



AÇIK OTOPARKLAR  
OPEN CARPARKS



BENZİN İŞTASYONLARI  
GAS STATIONS



ISLAK  
WET



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*"From Lykia with love, the country of lights"*

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