



LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

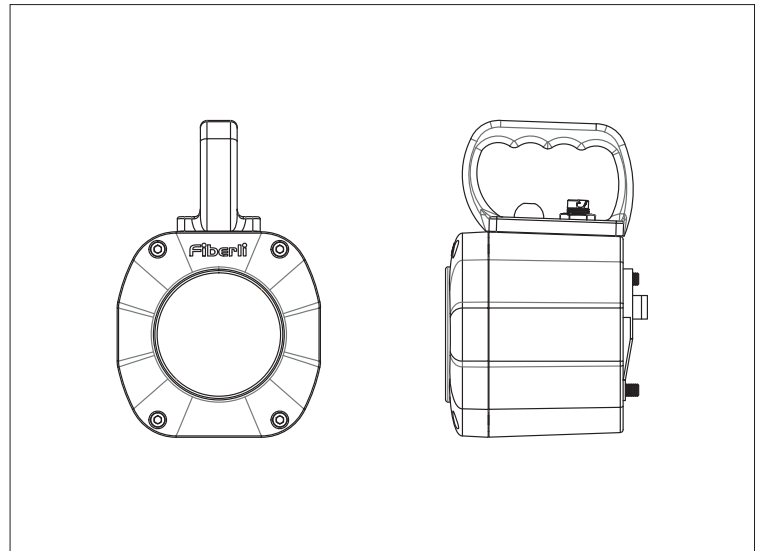
MM

RDMX

LC

FO

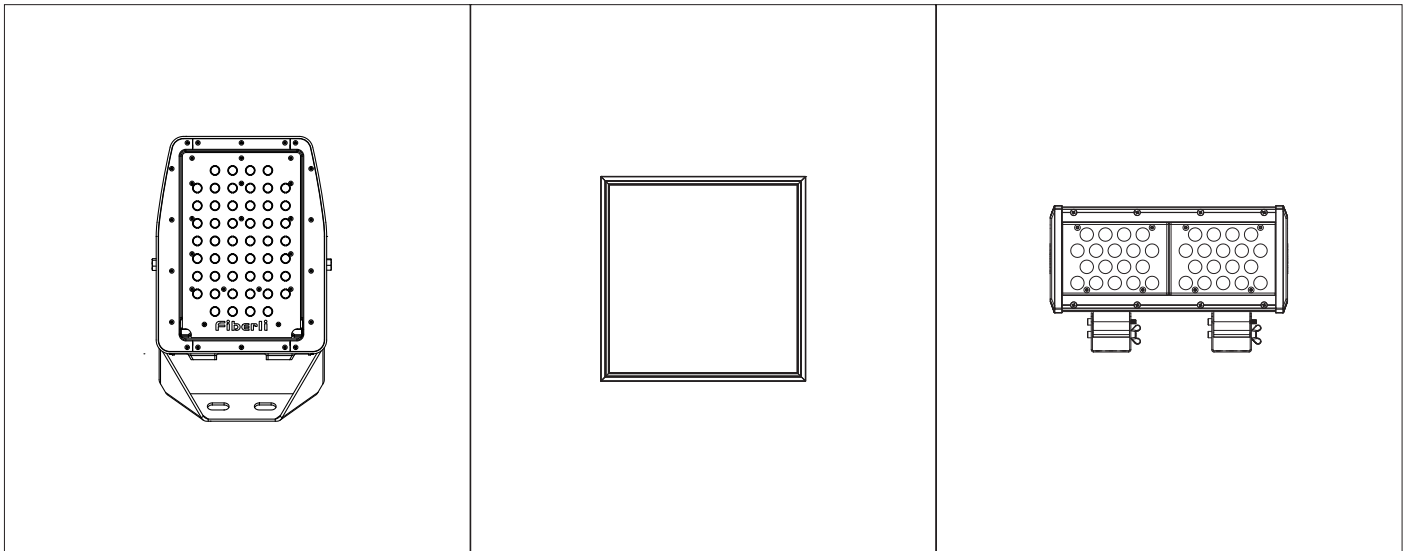
EL



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.

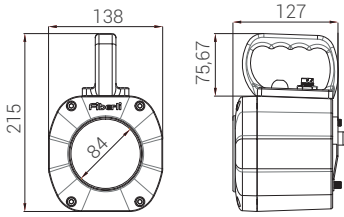
Military Marine



Military Marine - Marine & Military Lighting



IP 68	12m 36 hours	IK 10
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- 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

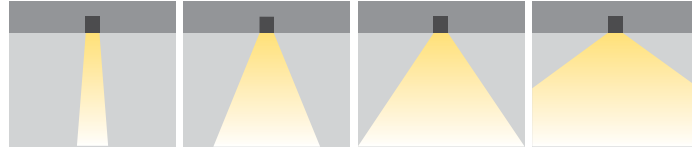
*Different colors are optional

System Options

20: min.20 hours

36: min.36 hours

O Lens Seçenekleri



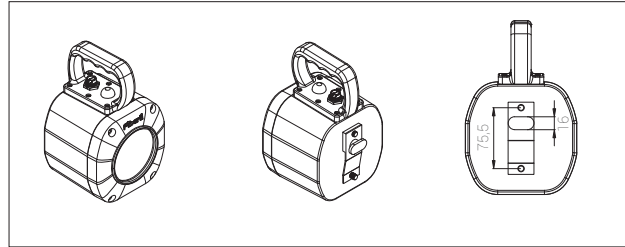
XN: Extra Narrow Angle

M: Medium Angle

W: Wide Angle

XW: Without lens

Mounting



200cm IP68 Charging Cable

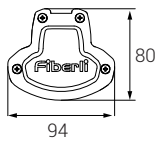
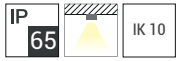


Order Code

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

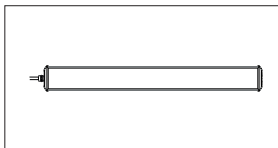
J Junction Options



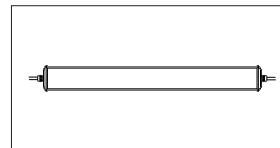
01: Cable

02: IP Socket

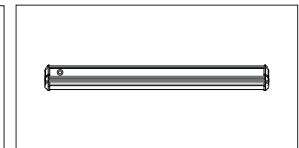
K Cable Direction Options



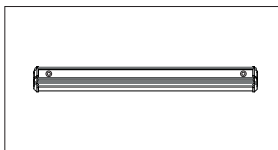
01: Single Entry



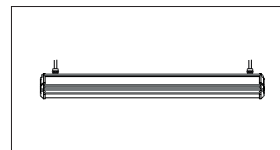
03: Dual end exit and entry



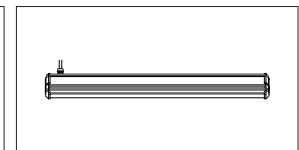
07: Front end entry



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.



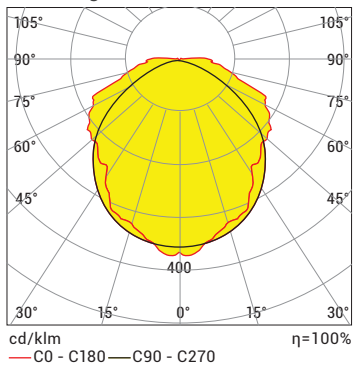
Order Code

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

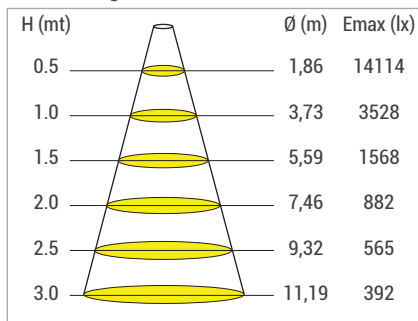


Product Diagrams

Polar Diagram



Conical Diagram



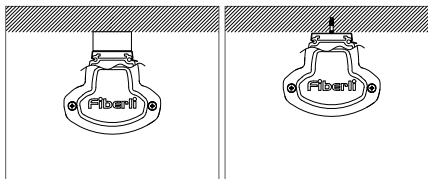
LLET 160 CW 120D 85W 220V AC IP66 TRA. COVER

U Upper Cover Options



01: Diffused 02: Transparent

M Mounting Options

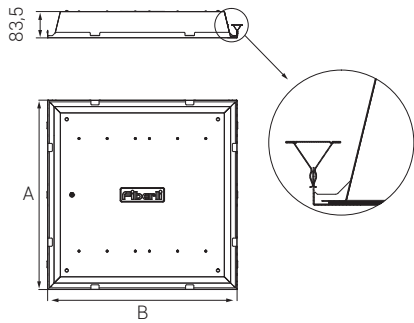


25: Pendant mount 26: Surface mount

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 (AxB) (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

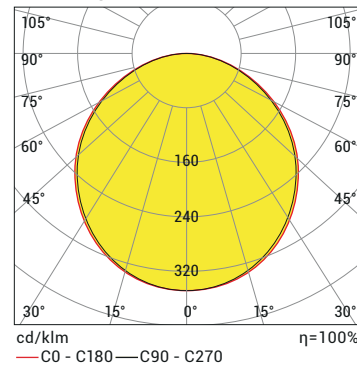
*Different colors are optional

S Driver Options

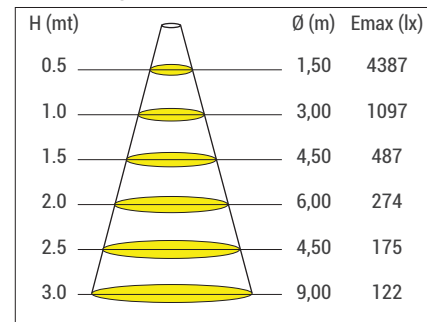
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

Product Diagrams

Polar Diagram



Conical Diagram



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

Control System Options

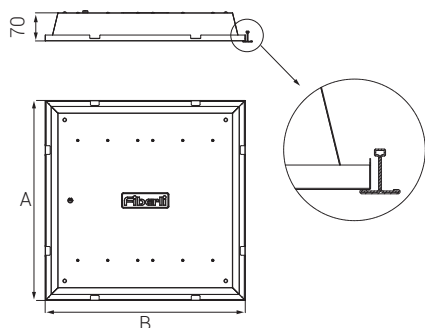
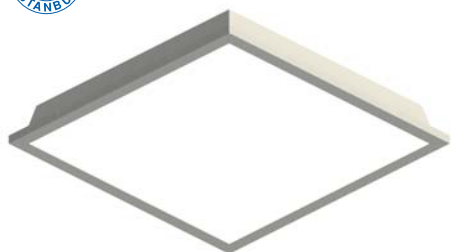
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	●
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



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

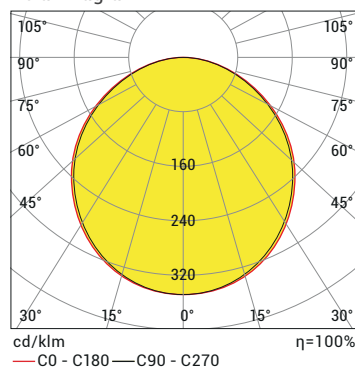
*Different colors are optional

S Driver Options

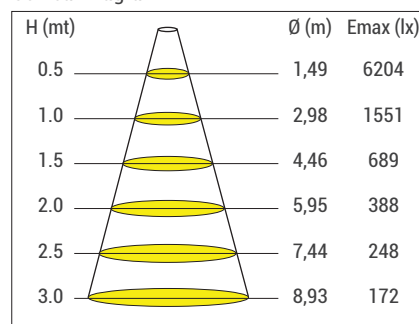
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

Product Diagrams

Polar Diagram



Conical Diagram



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

Control System Options

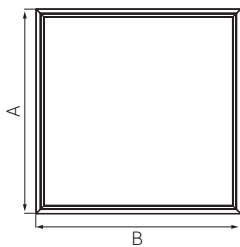
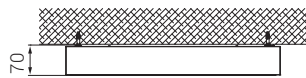
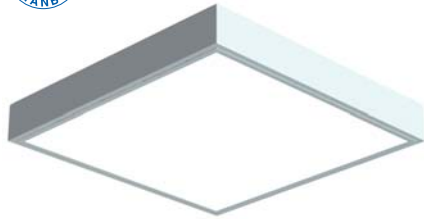
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				●	●	●
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



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



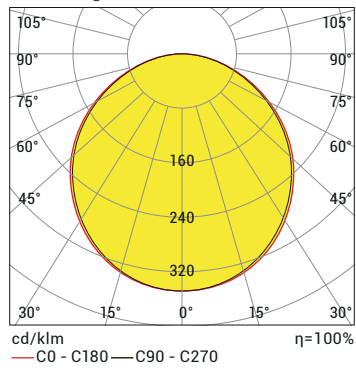
Order Code

P . W . C . S

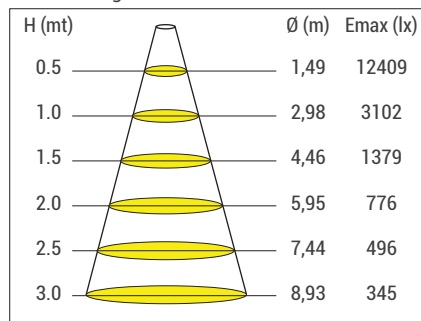


Product Diagrams

Polar Diagram



Conical Diagram

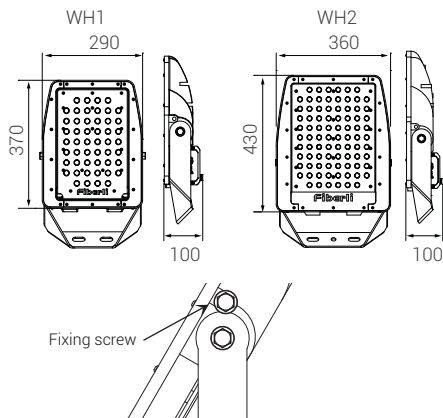


PANEL SURFACE 60x120 CW 120D 86W 220V AC IP40

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

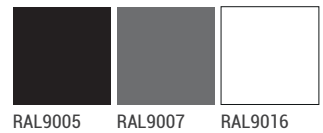
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

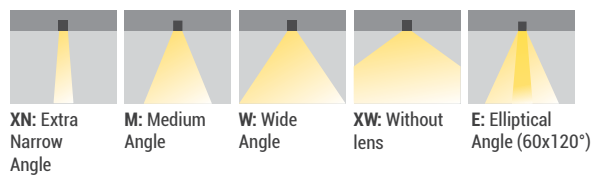
● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

*Different colors are optional

G Housing Color Options



O Lens Options



J Junction Options



M Mounting Options

Stand connector

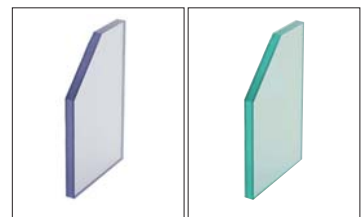


20: Standard Stand

21: Direct mounting kit (optional)

Extension pieces at any desired length are optional

U Upper Piece Options



03: Polycarbonate glass

04: Tempered glass



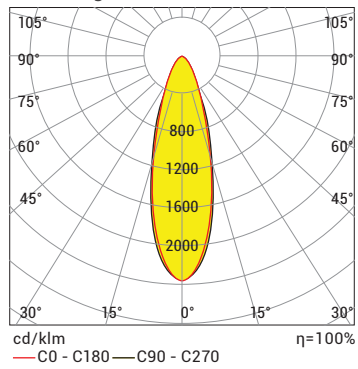
Order Code

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

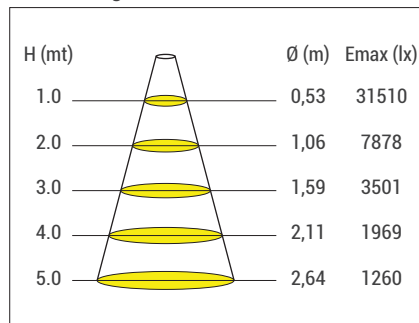


Product Diagrams

Polar Diagram

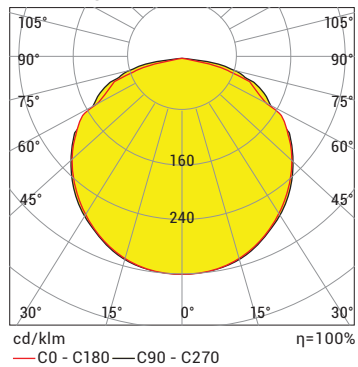


Conical Diagram

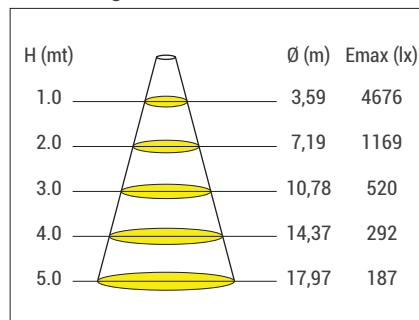


WH154 CW 25D 135W 220V AC IP66

Polar Diagram





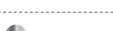



Conical Diagram

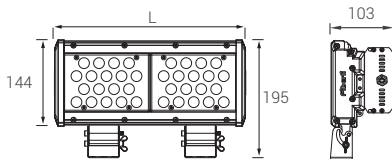


WH154 CW 120D 135W 220V AC

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

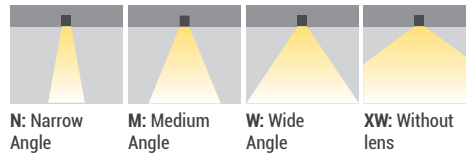
*Power and Lumen values provided are based off of a "cold white (CW) LED".

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



J Junction Options



01: Cable

02: IP67 Socket



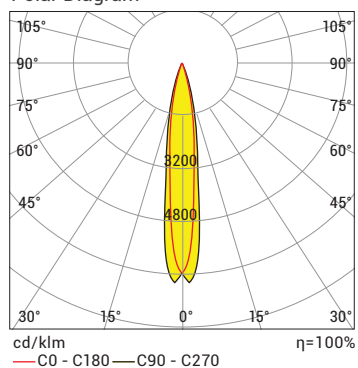
Order Code

P . W . C . O . J . M

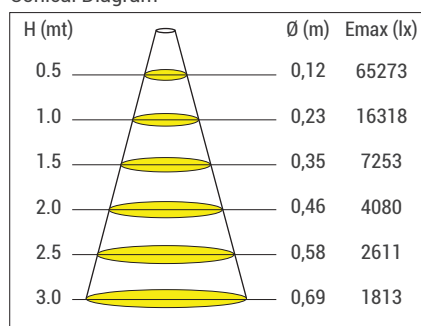


Product Diagrams

Polar Diagram

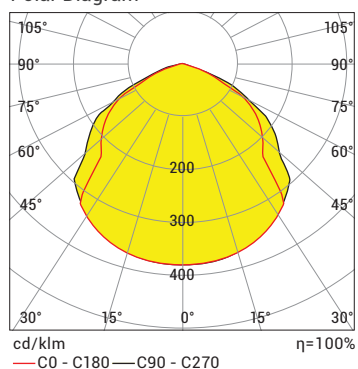


Conical Diagram

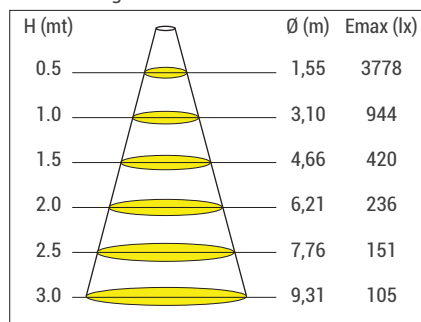


WS118 CW 10D 22W 220V AC IP66

Polar Diagram



Conical Diagram



WS118 CW 120D 22W 220V AC IP66

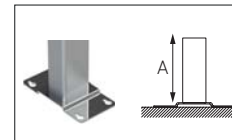
M Mounting Options



20: Standard Stand

21: Standard stand/
Mounting kit

Optional Accessories



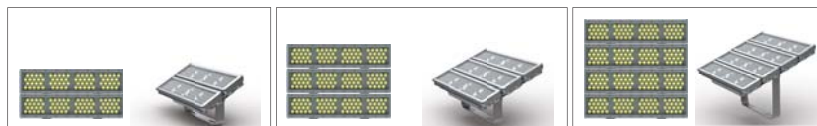
34: Extension piece A=5cm

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						

