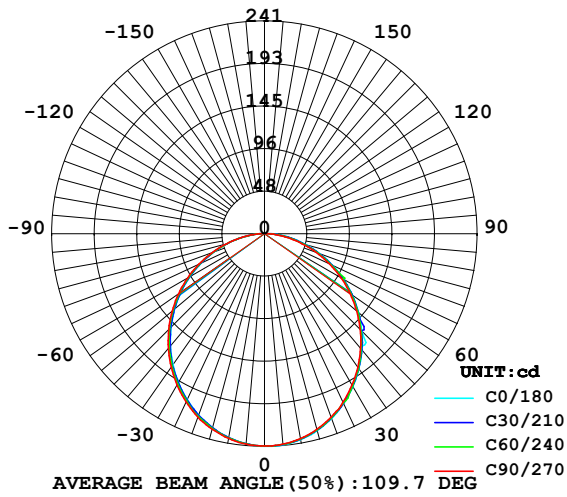
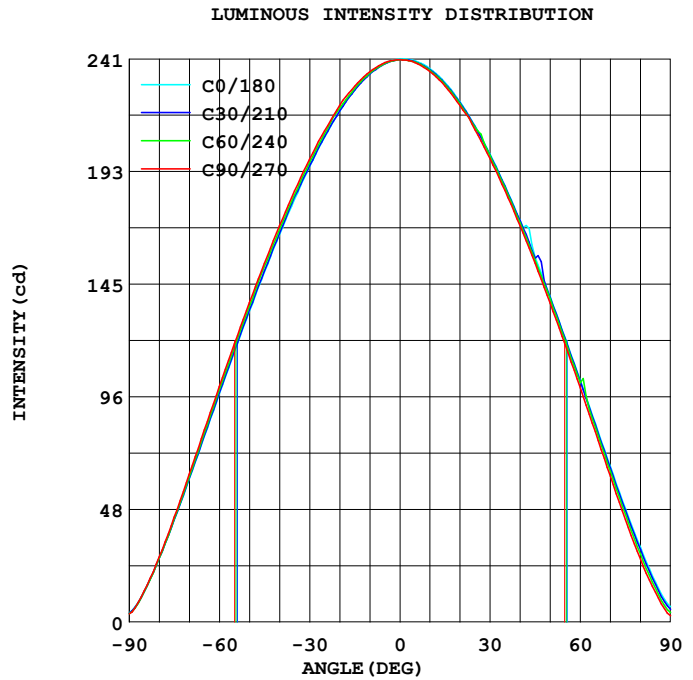


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000042

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:

TEST DATA:					
MODEL:	LLA	Imax (cd) :	241.0	η street_up (%) :	0.0
NOMINAL POWER (W) :	18	MAXIMUM (C, γ :	180, 1.0	η street_down (%) :	53.3
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	825.5	η house_up (%) :	0.0
NOMINAL FLUX (lm) :	825.5	EFFICIENCY (%) :	100.0	η house_down (%) :	46.7
TEST FLUX (lm) :	825.5	η up (%) :	0.0		
LAMPS QUANTITY:	1	η down (%) :	100.0		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:24.00V I:0.172A P:18.00W PF:0.547

Test System: LSG-1600
 Temperature: 25.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 02-18-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 56.0%
 Test Distance: 9.545 m
 Remarks: LLA PT45 CW 120D 18W 24V DC IP44

ZONAL FLUX DIAGRAM

Report number: 2016000042

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	239.0	238.6	239.4	239.3	240.2	239.9	239.4	239.0	0- 5	5.733	5.733
10.0	234.6	234.0	235.5	235.5	236.8	236.7	235.6	235.1	5- 10	16.95	22.68
15.0	227.7	227.1	229.3	229.4	230.9	231.1	229.4	228.7	10- 15	27.48	50.17
20.0	218.6	218.1	221.1	220.9	222.7	223.1	221.1	220.1	15- 20	36.92	87.09
25.0	207.5	207.4	210.2	210.4	212.3	213.0	210.7	209.5	20- 25	44.95	132.0
30.0	194.9	194.4	198.1	198.2	200.2	201.5	198.3	197.3	25- 30	51.30	183.3
35.0	180.9	180.3	184.4	184.4	186.7	188.0	184.6	183.5	30- 35	55.81	239.1
40.0	165.8	165.0	169.5	169.4	171.9	173.0	169.5	168.4	35- 40	58.39	297.5
45.0	149.8	148.8	153.6	153.6	155.9	157.3	153.6	152.6	40- 45	59.16	356.7
50.0	133.0	132.1	136.7	136.8	139.3	140.7	136.4	135.8	45- 50	57.86	414.6
55.0	115.5	114.4	118.9	119.3	121.4	123.2	118.6	118.1	50- 55	54.73	469.3
60.0	97.66	96.30	100.8	101.2	103.4	105.2	100.3	100.1	55- 60	49.85	519.2
65.0	79.44	77.98	82.17	82.63	85.09	86.36	81.44	81.63	60- 65	43.53	562.7
70.0	61.22	59.49	63.22	63.95	66.59	67.51	62.40	62.86	65- 70	35.85	598.5
75.0	43.64	41.63	44.82	45.91	48.65	49.19	43.82	44.91	70- 75	27.44	626.0
80.0	27.33	25.50	27.69	29.15	31.97	31.97	26.87	28.06	75- 80	18.76	644.8
85.0	12.93	11.38	13.21	14.48	17.03	16.76	12.66	13.48	80- 85	10.64	655.4
90.0	3.917	2.915	3.462	4.464	6.559	5.739	2.733	3.826	85- 90	4.057	825.5
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

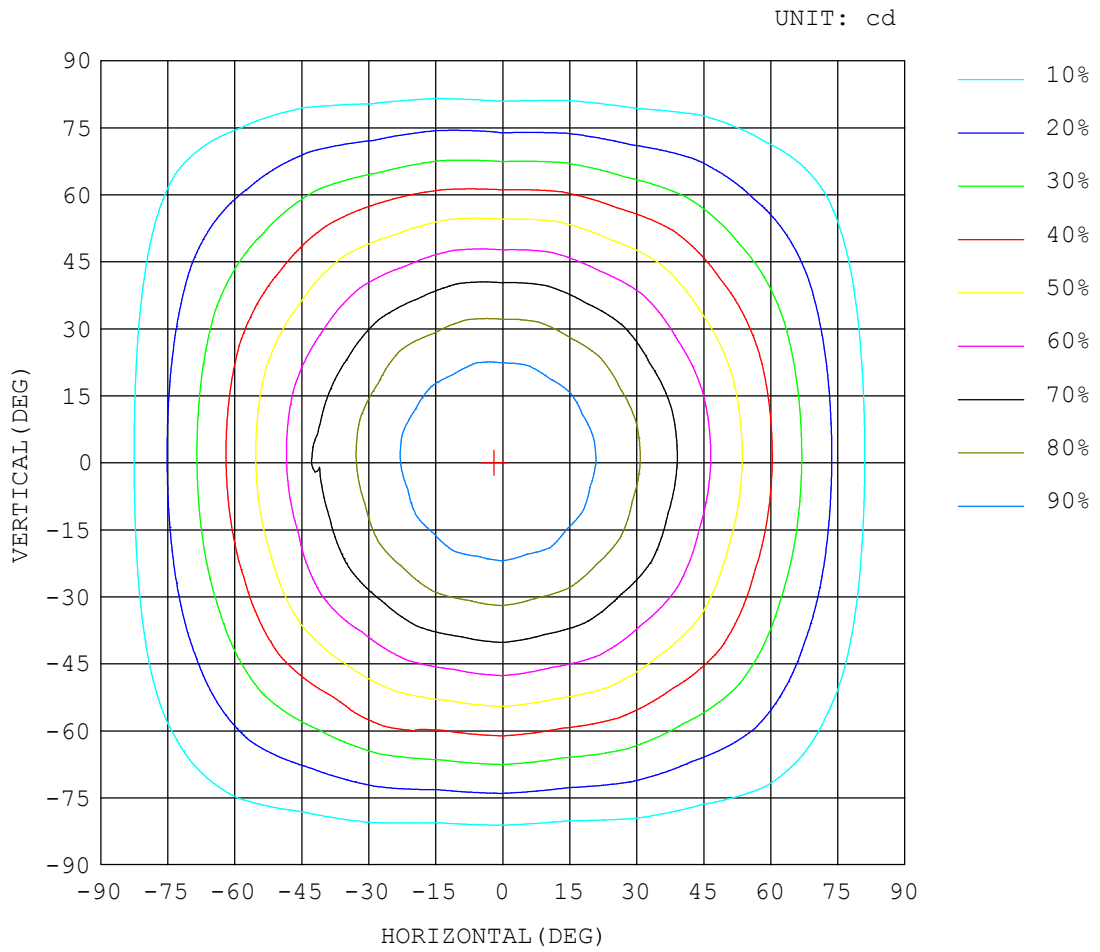
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 02-18-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 56.0%
Test Distance: 9.545 m
Remarks: LLA PT45 CW 120D 18W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000042

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:



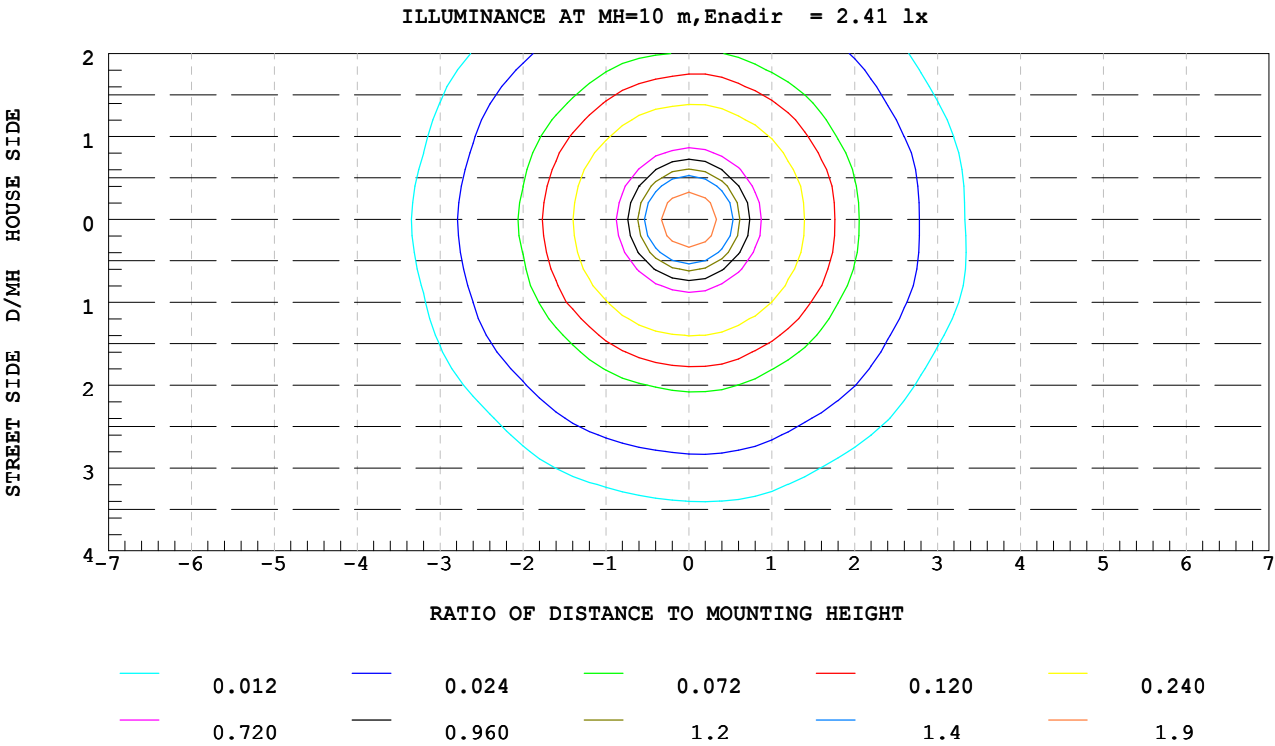
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 02-18-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 56.0%
Test Distance: 9.545 m
Remarks: LLA PT45 CW 120D 18W 24V DC IP44

ISOLUX DIAGRAM

Report number: 2016000042

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:



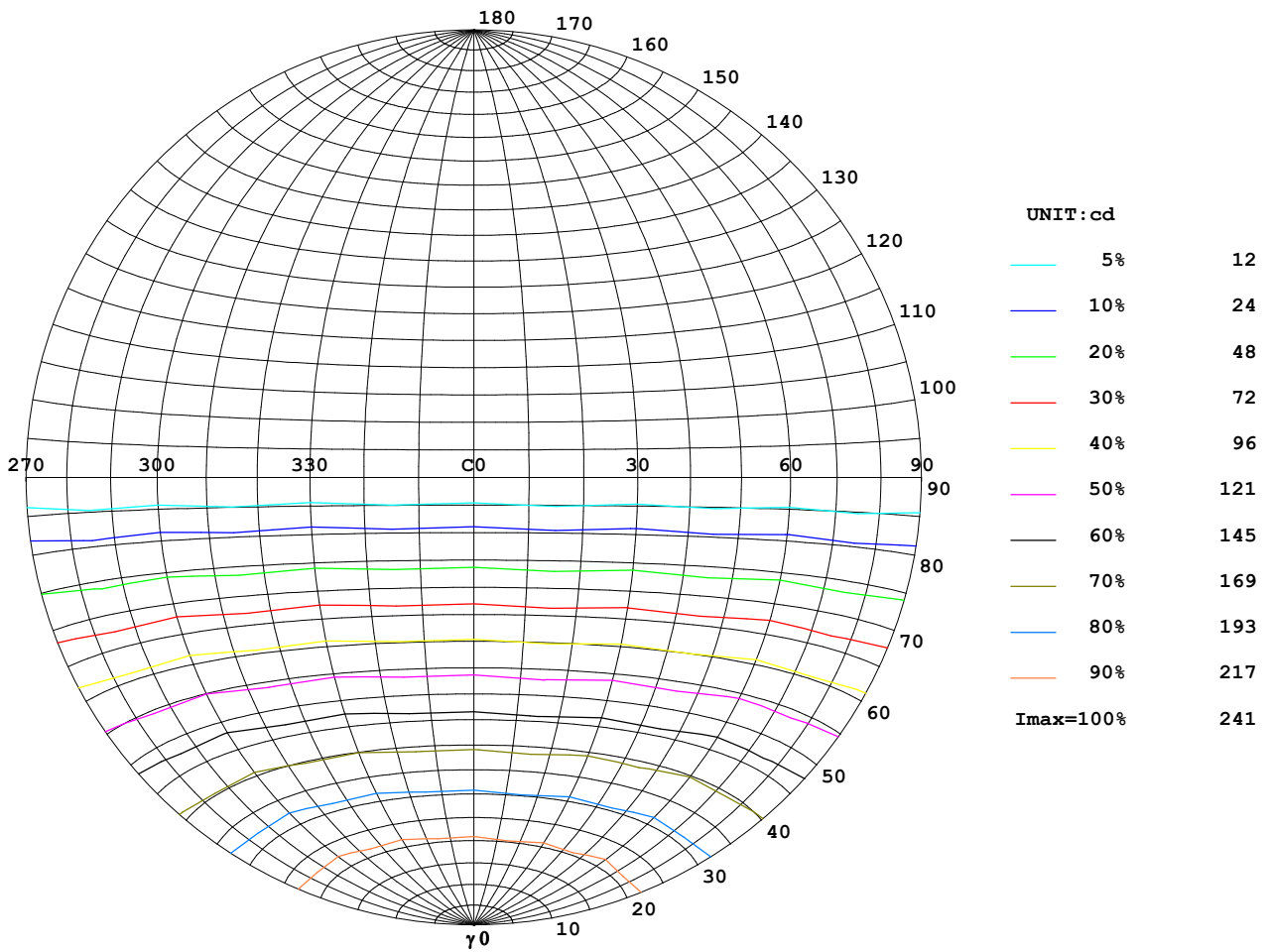
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:02-18-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:56.0%
Test Distance:9.545 m
Remarks: LLA PT45 CW 120D 18W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000042

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:



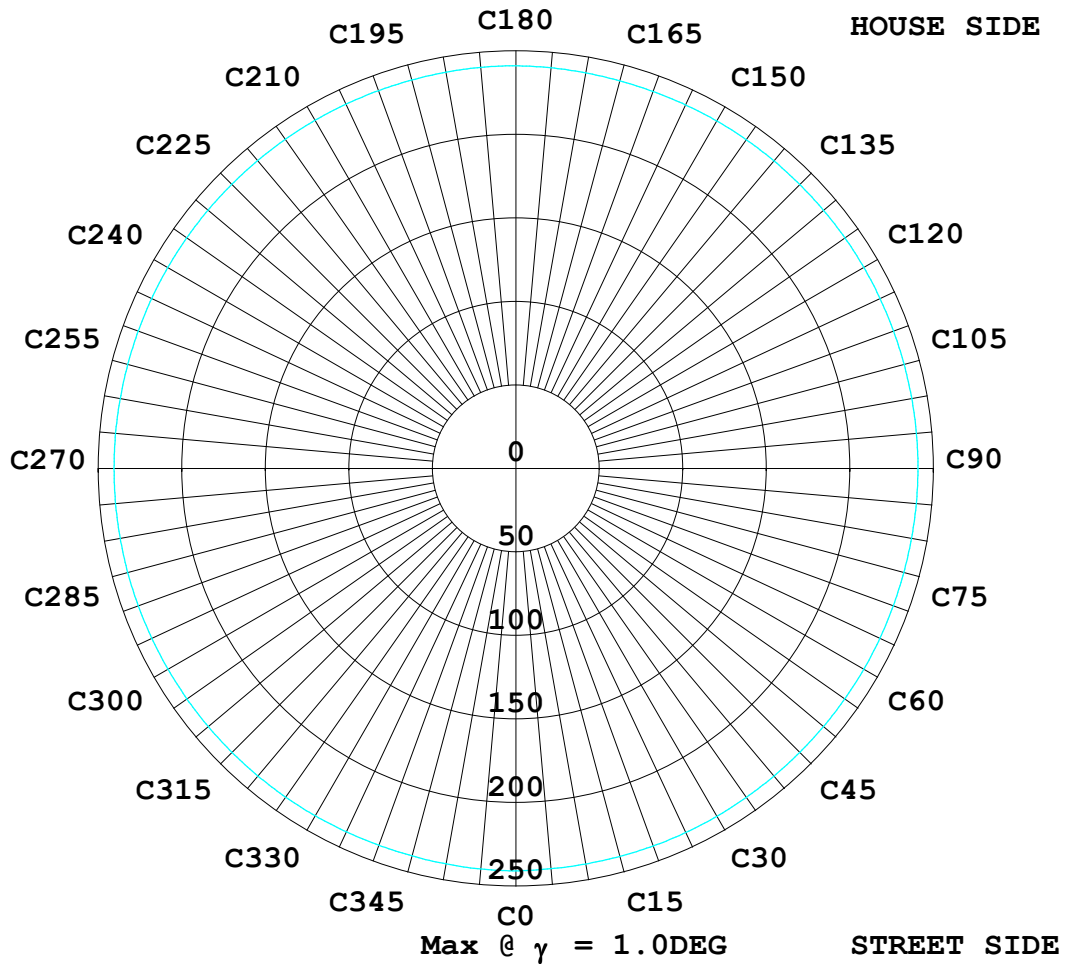
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:02-18-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:56.0%
Test Distance:9.545 m
Remarks: LLA PT45 CW 120D 18W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000042

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:



Test System: LSG-1600
 Temperature: 25.3DEG
 Operators: REGAIP DASTAN
 Test Date: 02-18-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 56.0%
 Test Distance: 9.545 m
 Remarks: LLA PT45 CW 120D 18W 24V DC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000042

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	241	241	241	241	241	241	241	241	241	241	240	240	241	241	241
5.0	239	239	239	239	239	239	239	239	240	239	240	239	240	240	240
10.0	235	234	235	234	235	235	236	235	236	236	236	236	237	237	236
15.0	228	227	228	227	228	228	229	229	230	229	230	229	231	231	231
20.0	219	217	219	218	220	220	221	221	222	221	222	221	223	223	222
25.0	208	206	208	207	209	208	210	210	211	210	212	211	212	213	212
30.0	195	193	195	194	197	196	198	197	199	198	200	198	200	202	200
35.0	181	179	182	180	183	182	184	183	186	184	186	185	187	188	186
40.0	166	164	166	165	168	167	170	168	171	169	171	170	172	173	172
45.0	150	148	150	149	152	151	154	152	155	154	156	154	156	159	156
50.0	133	131	134	132	135	134	137	135	138	137	139	137	139	141	139
55.0	116	113	116	114	118	116	119	118	121	119	122	120	121	124	121
60.0	97.6	95.3	98.1	96.3	99.3	97.7	101	99.4	103	101	104	102	103	106	103
65.0	79.4	77.2	79.7	77.9	80.8	79.1	82.1	80.8	84.2	82.6	85.3	83.4	85.0	87.0	84.5
70.0	61.2	59.0	61.4	59.4	62.0	60.4	63.2	62.0	65.3	63.9	66.7	64.9	66.5	68.4	65.8
75.0	43.6	41.6	43.7	41.6	44.0	42.0	44.8	45.5	47.0	45.9	48.8	47.1	48.6	50.3	47.7
80.0	27.3	25.5	27.2	25.5	27.2	25.6	27.6	26.8	29.8	29.1	31.7	30.6	31.9	33.2	31.0
85.0	12.9	11.4	12.8	11.3	12.7	11.4	13.2	12.4	14.9	14.4	16.6	15.8	17.0	18.0	16.1
90.0	3.91	3.09	3.82	2.91	3.64	2.64	3.46	3.09	4.55	4.46	5.92	5.55	6.55	6.74	5.46

Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:02-18-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:56.0%
Test Distance:9.545 m
Remarks: LLA PT45 CW 120D 18W 24V DC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000042

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLA PT45 CW 120D 18W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE A	DIMENSION: 1010x76x50mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	241	241	241	241	241	241	241	240	240
5.0	240	240	240	239	240	239	239	239	239
10.0	237	236	236	236	236	235	235	234	235
15.0	231	230	231	229	230	228	229	227	228
20.0	223	222	222	221	221	220	220	218	219
25.0	213	212	213	211	211	209	210	208	208
30.0	202	200	200	198	199	197	197	195	196
35.0	188	186	187	185	186	183	184	181	182
40.0	173	171	172	170	171	168	168	166	167
45.0	157	155	157	154	155	152	153	150	151
50.0	141	138	139	136	138	135	136	133	134
55.0	123	120	122	119	120	117	118	115	117
60.0	105	102	104	100	102	98.6	100	97.0	98.8
65.0	86.3	83.4	84.8	81.4	83.1	80.0	81.6	78.7	80.5
70.0	67.5	64.5	65.7	62.4	64.0	61.2	62.8	60.2	62.1
75.0	49.1	46.1	47.2	43.8	45.5	42.9	44.9	42.5	44.4
80.0	31.9	29.1	29.7	26.8	28.3	26.3	28.0	26.2	27.9
85.0	16.7	14.3	14.8	12.6	13.6	12.1	13.4	12.1	13.4
90.0	5.73	4.09	4.09	2.73	3.55	2.91	3.82	3.18	4.09