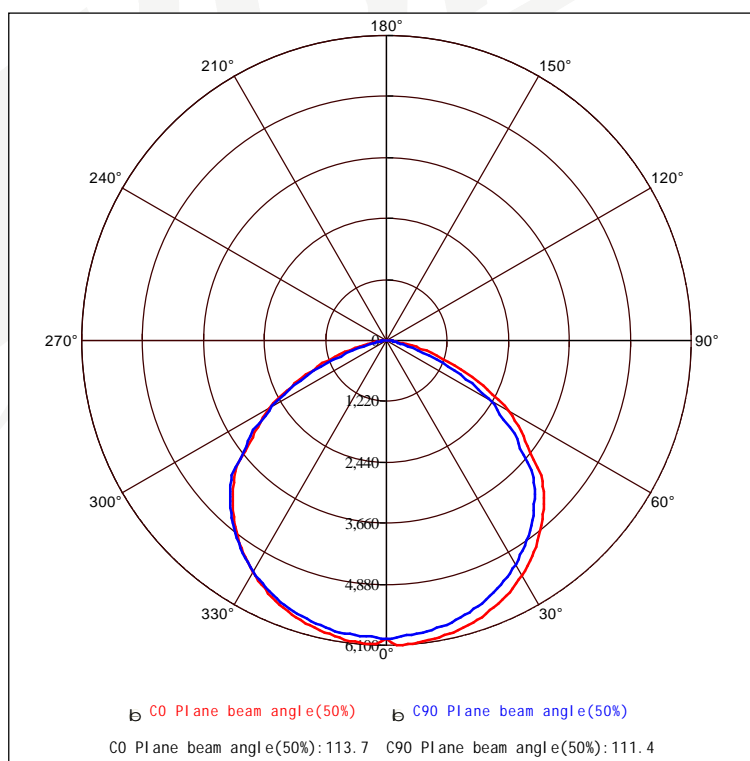


## LED FLOOD LIGHT

Measured Para   U: 216.5V   I: 954.0mA   P: 138.10W   PF: 0.668   Test LM: 16728.74lm						
Lamp Name: LPFL-150W			Lamp Type: CLASS I		Weight(kg):	
Lamp ID:			Lamp Spec: LPFL-150W		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-150W		Peak Value(cd)	6098.2	Effi ciency(lm/w)	121.1
Nominal P(w)		1.0	Position	0.0, 2.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	16728.740	Down(C0-C180)	50.4
Rated Flux(lm)		1.0	Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY		1	Dw Flux Rate(%)	100.0	Down(C180-C360)	49.6

### Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

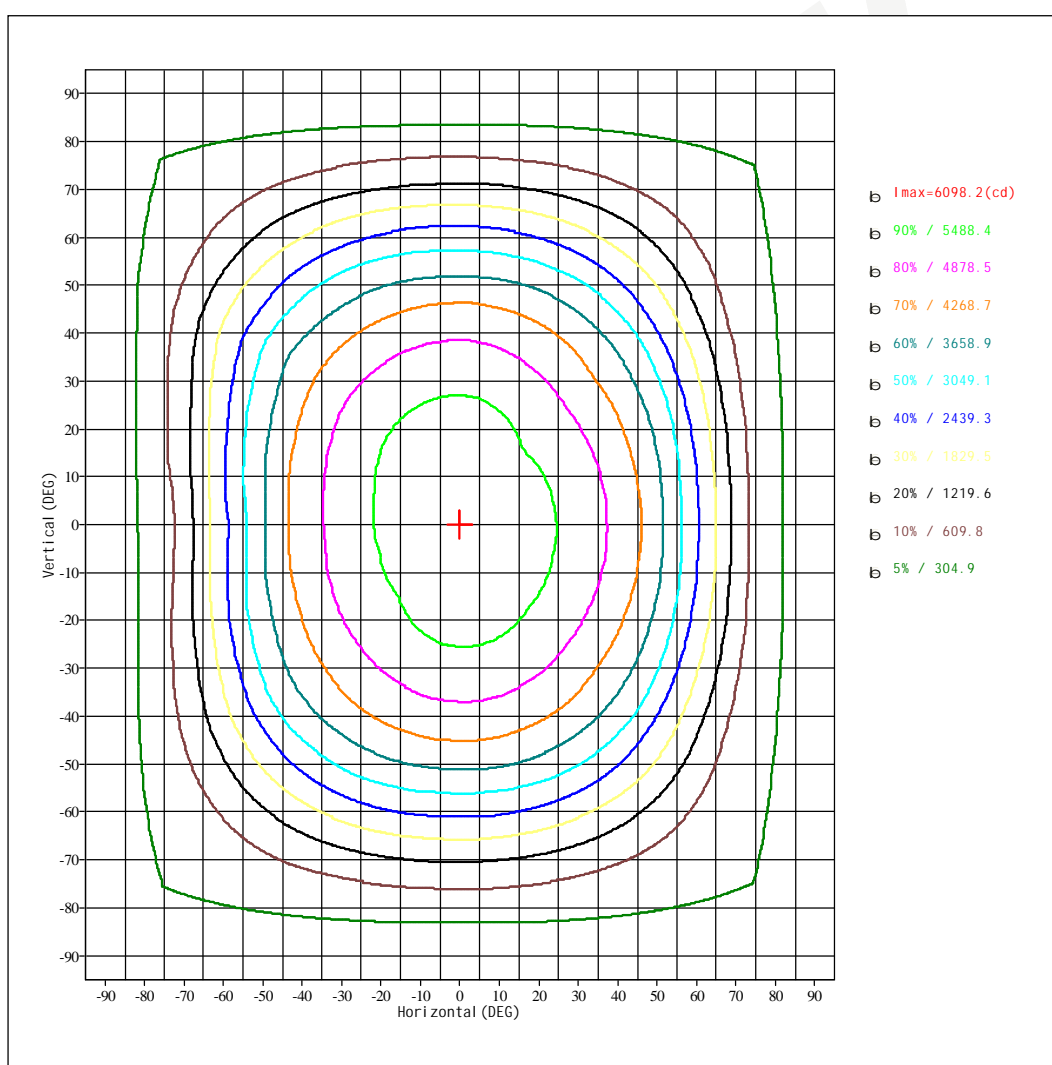
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

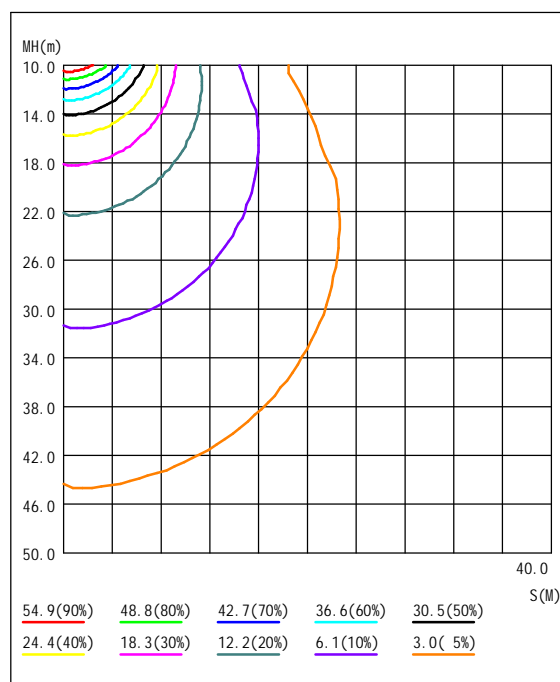
Humidity(%): 60

Date: 2019-11-12

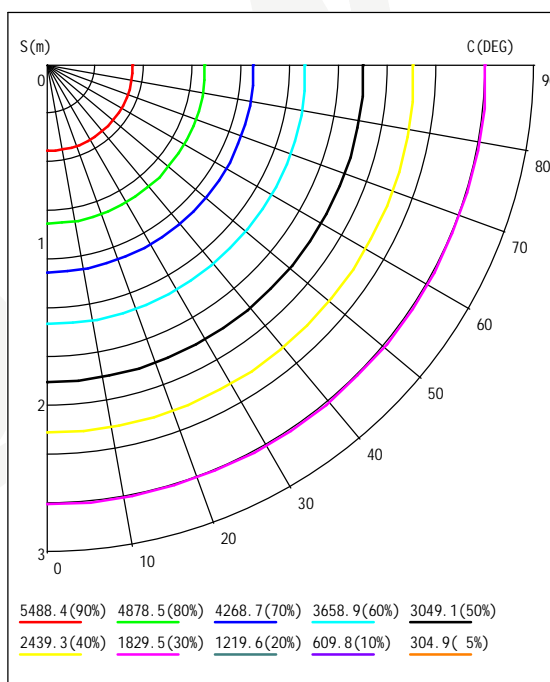
Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zyg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

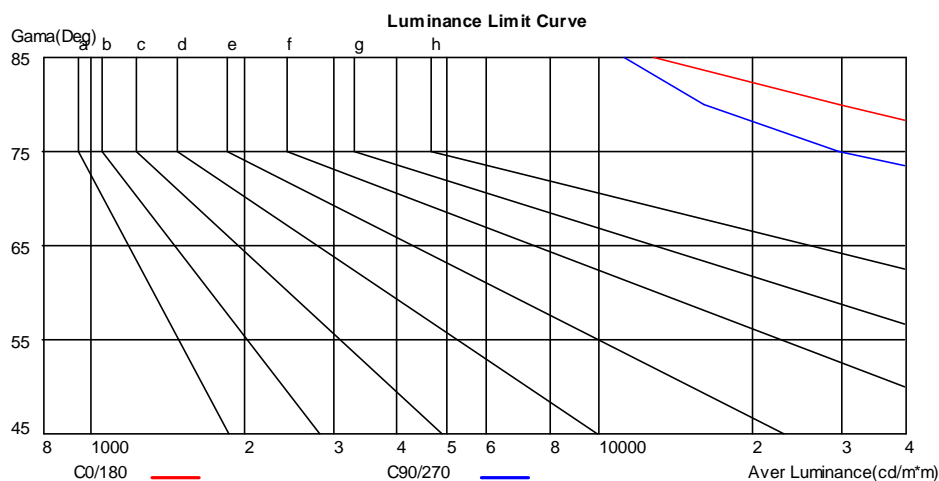
Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

### Luminance Limit Curve

Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	441196.7	387286.0	329118.1	277742.6	208344.1	135509.1	75029.3	29627.5	12826.1
C90	415365.5	350118.2	290897.6	222329.8	156161.3	84628.4	29608.6	16047.7	11172.1

Glare									
Glare	Class	Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zyg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

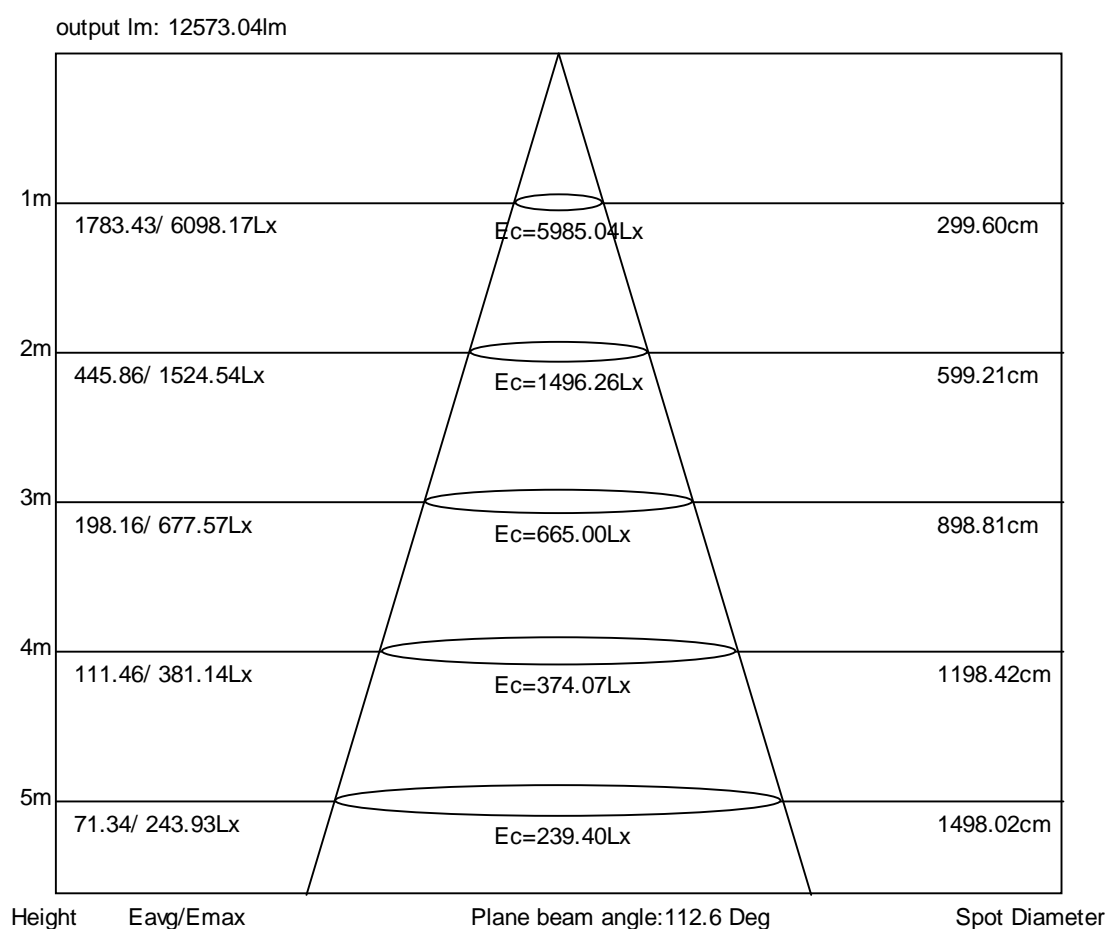
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

### Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

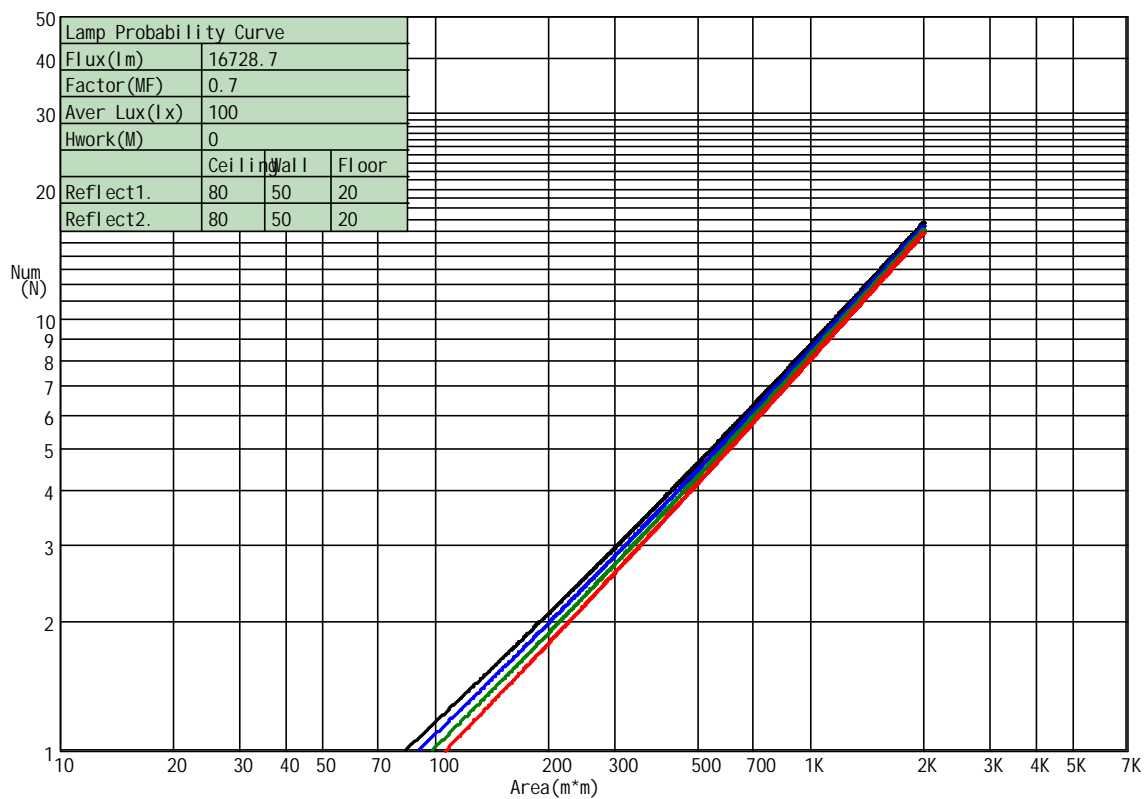
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	54	40	31	53	39	30	50	38	30
0.80	58	42	32	56	41	31	52	40	31
1.00	62	45	33	59	43	32	54	41	31
1.25	64	46	33	61	45	33	56	42	31
1.50	66	48	34	62	46	33	56	42	31
2.00	68	49	34	64	47	33	58	43	31
2.50	69	50	34	65	47	32	58	43	30
3.00	70	50	33	66	48	32	58	43	29
4.00	71	51	33	67	48	32	58	42	28
5.00	72	51	33	67	48	31	58	42	28

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02
1	1.05	1.01	0.98	1.03	1	0.96	0.99	0.96	0.93	0.95	0.93	0.9	0.91	0.9	0.88
2	0.92	0.86	0.81	0.91	0.85	0.8	0.87	0.82	0.78	0.84	0.8	0.76	0.81	0.77	0.74
3	0.82	0.74	0.67	0.8	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.65	0.72	0.67	0.63
4	0.72	0.64	0.57	0.71	0.63	0.57	0.69	0.62	0.56	0.66	0.6	0.55	0.64	0.59	0.55
5	0.65	0.56	0.49	0.64	0.55	0.49	0.61	0.54	0.49	0.59	0.53	0.48	0.58	0.52	0.48
6	0.58	0.49	0.43	0.57	0.49	0.43	0.55	0.48	0.43	0.54	0.47	0.42	0.52	0.46	0.42
7	0.53	0.44	0.38	0.52	0.44	0.38	0.5	0.43	0.38	0.49	0.42	0.37	0.48	0.42	0.37
8	0.48	0.4	0.34	0.47	0.39	0.34	0.46	0.39	0.34	0.45	0.38	0.33	0.44	0.38	0.33
9	0.44	0.36	0.3	0.43	0.36	0.3	0.42	0.35	0.3	0.41	0.35	0.3	0.4	0.34	0.3
10	0.41	0.33	0.28	0.4	0.33	0.27	0.39	0.32	0.27	0.38	0.32	0.27	0.37	0.31	0.27

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Wall Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.28	0.16	0.05	0.27	0.16	0.05	0.26	0.15	0.05	0.25	0.14	0.05	0.24	0.14	0.04
2	0.27	0.15	0.05	0.27	0.15	0.05	0.25	0.14	0.04	0.24	0.14	0.04	0.23	0.13	0.04
3	0.26	0.14	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04
4	0.24	0.12	0.04	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.03
5	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.1	0.03
6	0.21	0.1	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
7	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.03	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.09	0.02	0.16	0.08	0.02
9	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
10	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.15	0.07	0.02

Ceiling Cavity Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.18	0.16	0.14	0.15	0.13	0.12	0.1	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.15	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.04	0.02	0.01	0.01
3	0.16	0.11	0.08	0.14	0.1	0.07	0.1	0.07	0.05	0.06	0.04	0.03	0.02	0.01	0.01
4	0.15	0.1	0.06	0.13	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.13	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.01	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

Remark:



Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Size:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	6090	6007	5909	5872	6075	5996	5942	5886	0-5	143	143
10	6029	5951	5837	5818	6006	5934	5902	5831	5-10	425	568
15	5945	5851	5726	5717	5900	5822	5821	5732	10-15	696	1264
20	5806	5726	5578	5573	5756	5685	5695	5606	15-20	947	2211
25	5633	5552	5383	5399	5561	5493	5530	5429	20-25	1172	3383
30	5397	5332	5143	5174	5324	5251	5315	5204	25-30	1362	4745
35	5124	5068	4860	4902	5037	4964	5055	4934	30-35	1511	6256
40	4791	4757	4533	4587	4699	4619	4746	4608	35-40	1612	7868
45	4412	4396	4154	4221	4310	4226	4389	4233	40-45	1659	9528
50	3873	3985	3501	3805	3859	3773	3870	3796	45-50	1643	11171
55	3291	3528	2909	3345	3164	3267	3277	3310	50-55	1532	12704
60	2777	3016	2223	2678	2653	2429	2597	2449	55-60	1363	14067
65	2083	2260	1562	1938	1960	1746	1799	1802	60-65	1088	15154
70	1355	1637	846	1335	1295	1027	1035	1064	65-70	784	15938
75	750	918	296	686	690	423	402	441	70-75	456	16394
80	296	359	160	270	261	135	169	132	75-80	201	16596
85	128	155	112	145	91.3	73.8	81.8	71.5	80-85	81.6	16677
90	110	108	106	106	72.4	70.5	66.1	67.2	85-90	51.5	16729
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 216.5V I: 954.0mA P: 138.10W PF: 0.668 Test LM: 16728.74lm		
Lamp Name: LPFL-150W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-150W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	6090	6053	6016	5975	5931	5901	5884	5894	5986	6075	6040	6005	5979	5954	5930	5905	5908	6001
10.0	6029	5995	5960	5914	5862	5833	5824	5839	5924	6006	5975	5942	5923	5909	5886	5854	5852	5942
15.0	5945	5904	5862	5810	5754	5725	5720	5737	5820	5900	5866	5830	5821	5821	5801	5761	5756	5852
20.0	5806	5771	5735	5677	5610	5577	5575	5593	5676	5756	5725	5693	5689	5693	5676	5636	5628	5719
25.0	5633	5597	5561	5496	5420	5386	5394	5417	5490	5561	5531	5500	5505	5522	5508	5462	5451	5544
30.0	5397	5369	5339	5270	5184	5150	5163	5190	5258	5324	5292	5259	5272	5301	5291	5241	5225	5313
35.0	5124	5100	5074	5000	4905	4869	4888	4917	4978	5037	5005	4972	4994	5035	5029	4974	4955	5041
40.0	4791	4776	4761	4684	4582	4544	4569	4599	4650	4699	4664	4627	4661	4718	4716	4653	4628	4711
45.0	4412	4405	4398	4317	4207	4168	4199	4230	4271	4310	4273	4235	4279	4353	4354	4284	4252	4333
50.0	3873	3922	3973	3826	3607	3568	3706	3811	3835	3859	3821	3783	3805	3849	3854	3820	3805	3839
55.0	3291	3395	3502	3325	3044	3004	3202	3325	3243	3164	3209	3256	3271	3275	3284	3299	3308	3299
60.0	2777	2882	2990	2756	2397	2323	2529	2676	2664	2653	2555	2454	2484	2560	2564	2497	2485	2634
65.0	2083	2161	2241	2031	1714	1644	1814	1940	1950	1960	1866	1770	1764	1787	1799	1801	1833	1960
70.0	1355	1478	1606	1378	1019	953	1174	1330	1312	1295	1178	1056	1029	1033	1041	1055	1096	1228
75.0	750	824	900	714	432	381	558	686	688	690	573	453	416	407	411	428	475	615
80.0	296	324	352	294	204	184	234	269	265	261	206	149	146	161	161	144	150	224
85.0	128	140	152	141	121	119	134	139	115	91.3	83.6	75.7	76.4	80.1	79.6	74.9	77.7	103
90.0	110	109	108	107	106	106	106	103	87.3	72.4	71.6	70.8	69.1	67.1	66.4	66.8	71.9	91.3
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2019-11-12

Remark: