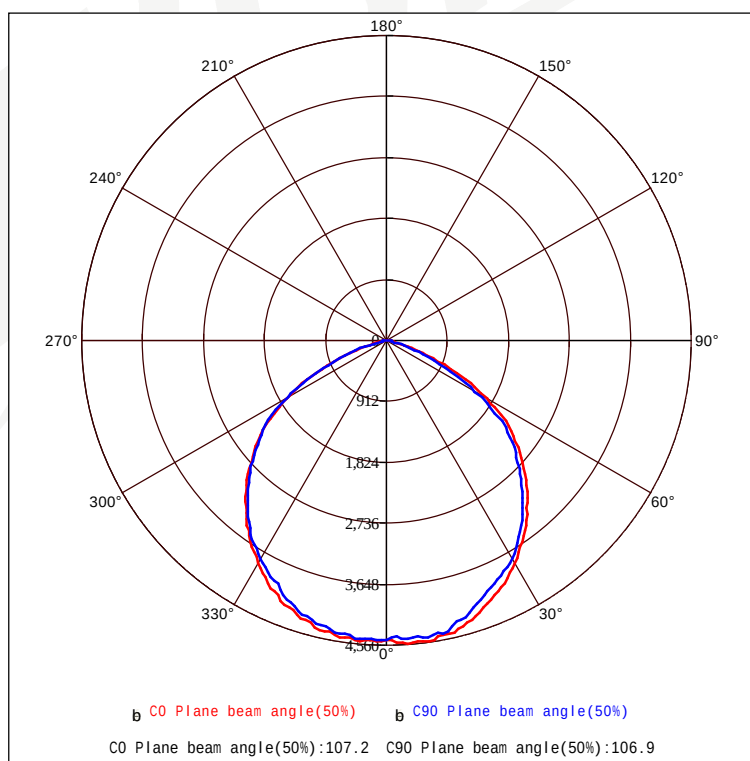


Goniophotometer Test Report

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-150XT01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-150XT01		Peak Value(cd)	4568.3	Efficiency(lm/w)	94.1
Nominal P(w)		1.0	Position	0.0,4.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	14073.6	Down(C0-C180)	52.2
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)	47.8

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

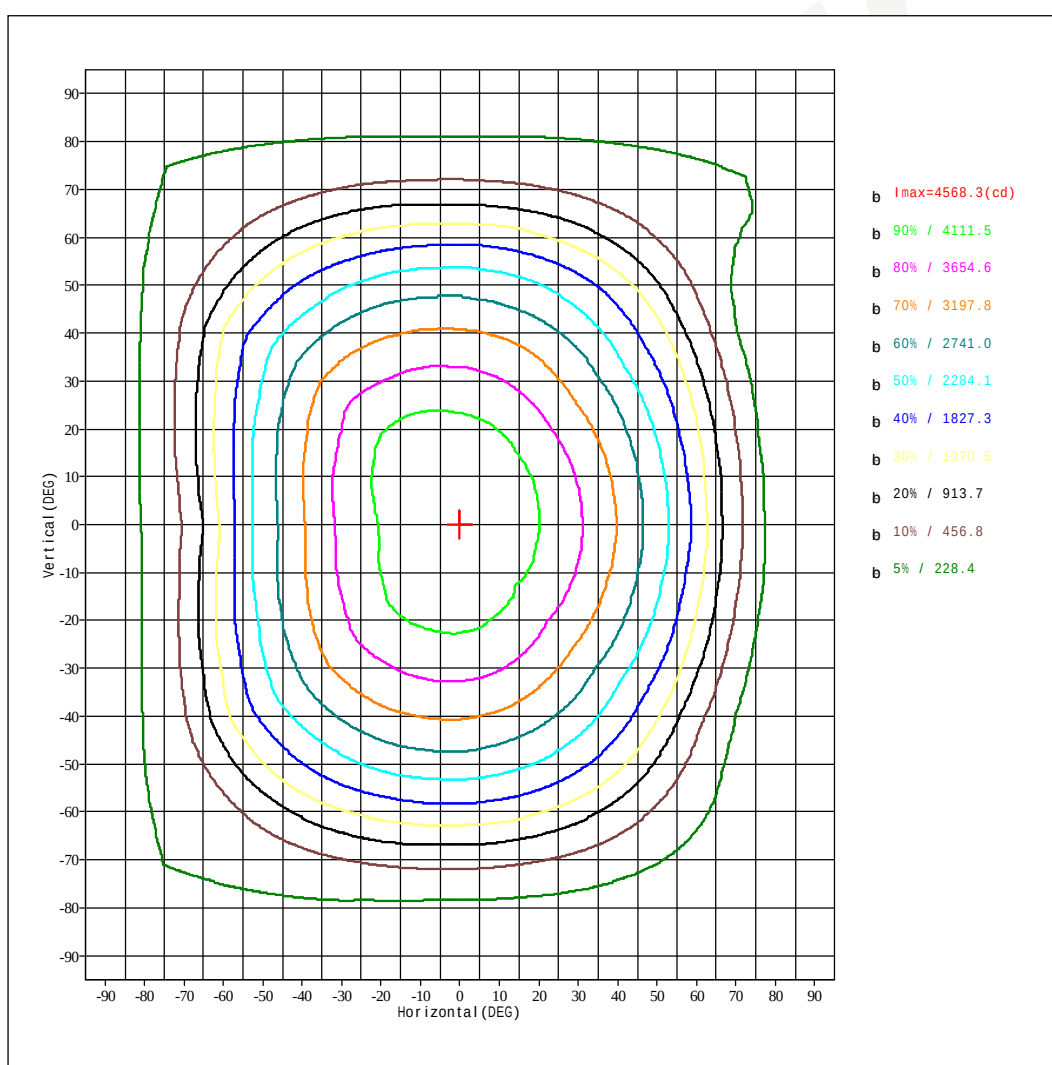
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

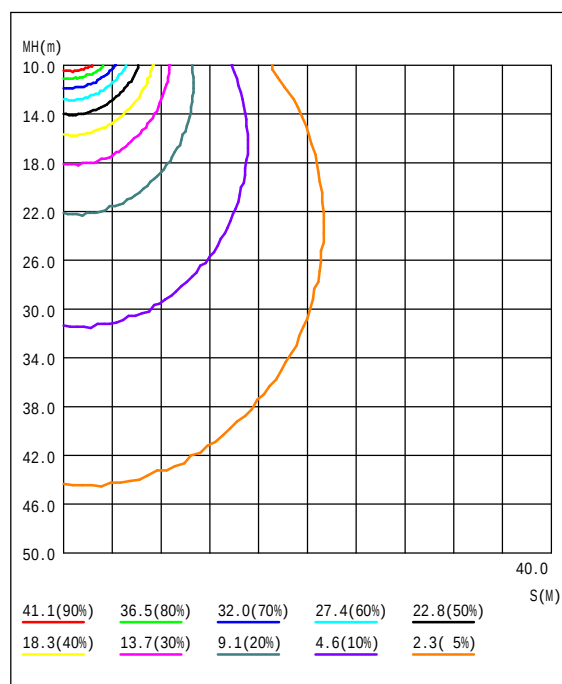
Humidity(%): 60

Date: 2021-10-11

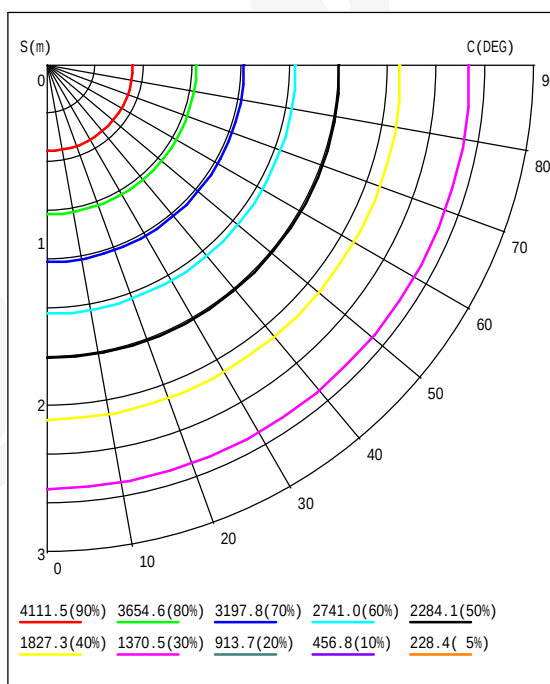
Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

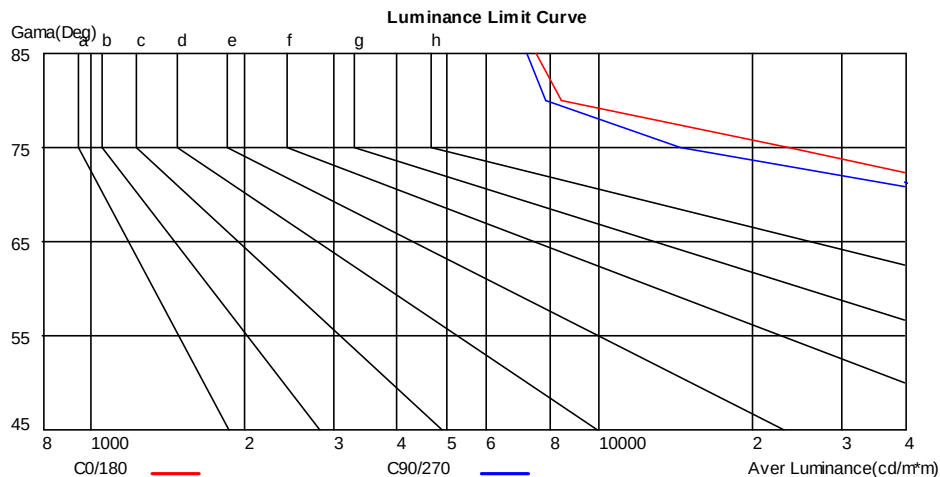
Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
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	290906.1	258351.5	219950.6	169544.3	108067.4	61848.8	23608.9	8443.9	7495.7
C90	279080.2	247739.2	203673.5	146252.3	90617.1	47881.5	14451.1	7856.1	7227.3

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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

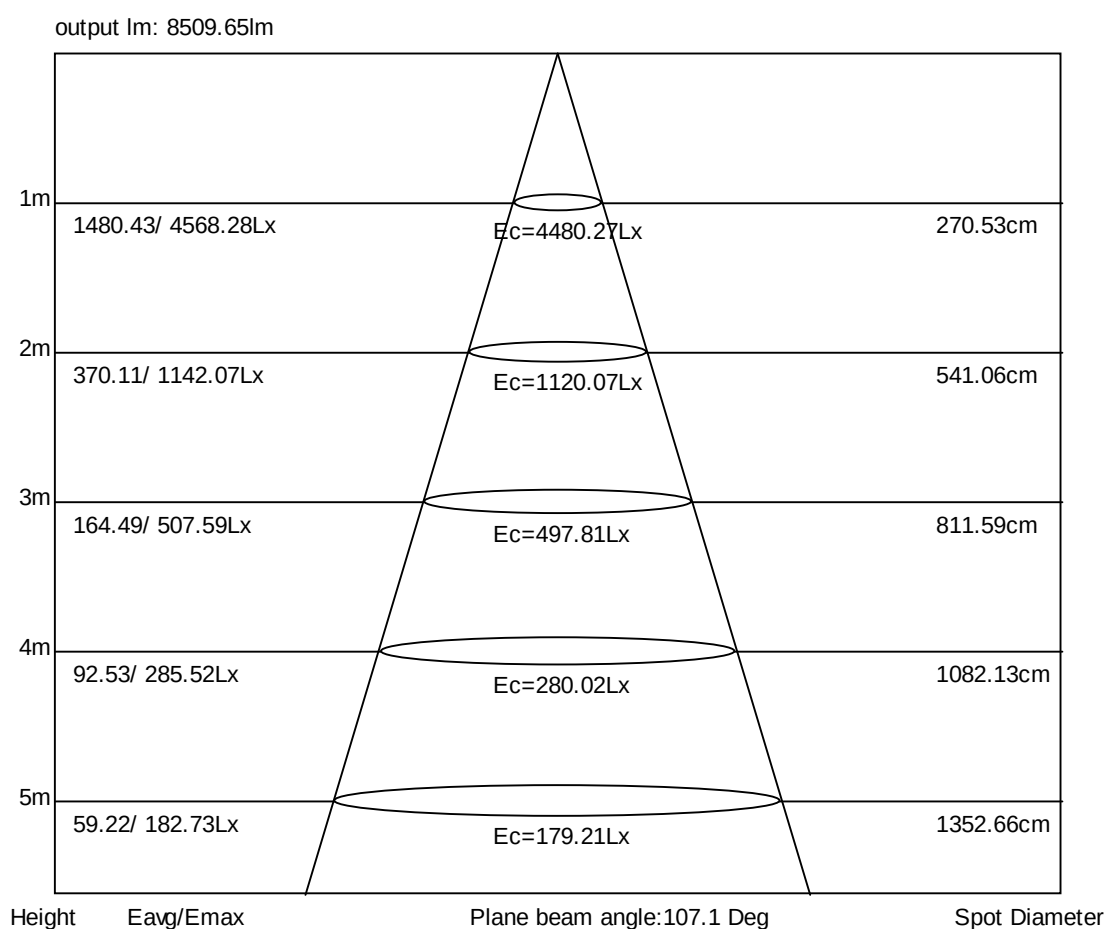
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

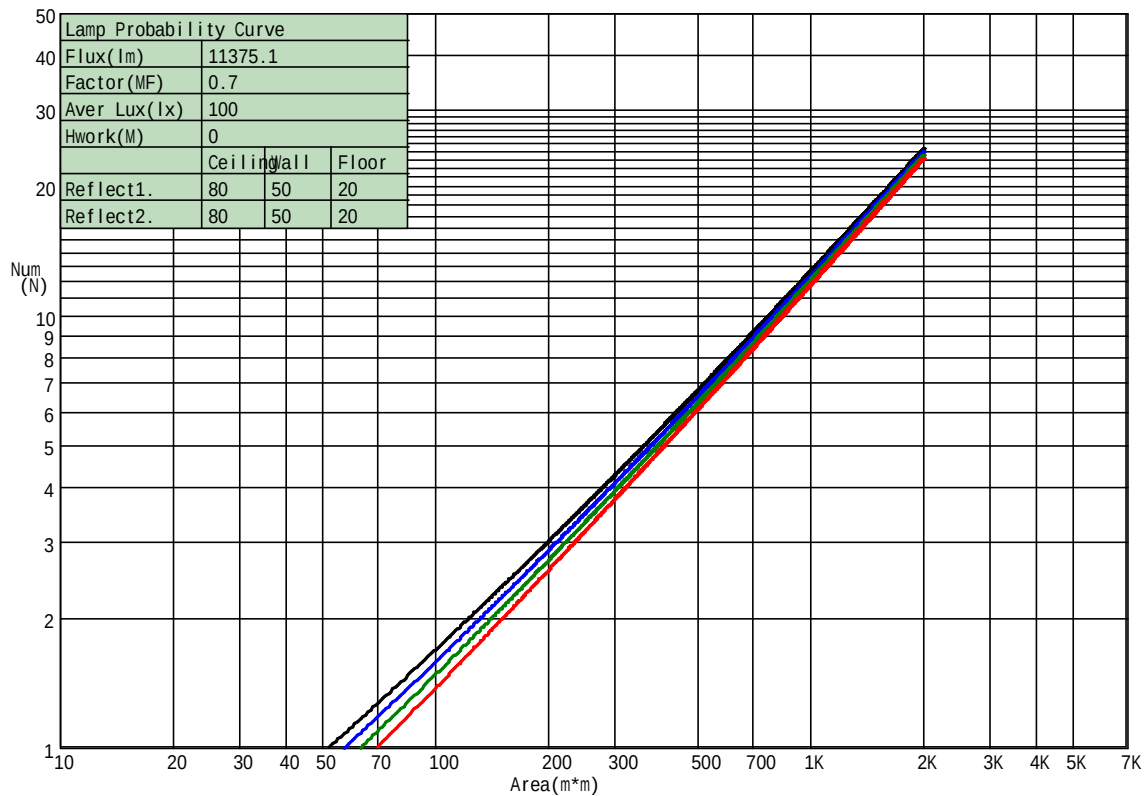
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
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	39	30
1.00	61	44	33	59	43	32	54	41	31
1.25	64	46	33	61	44	32	55	41	30
1.50	65	47	33	62	45	32	56	41	30
2.00	67	48	33	64	46	32	57	42	30
2.50	68	49	32	64	46	31	57	41	28
3.00	69	49	32	65	46	31	57	41	28
4.00	70	50	32	66	47	30	57	41	27
5.00	71	50	32	66	47	30	57	41	27

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	1.06	1.02	0.99	1.04	1	0.97	1	0.97	0.94	0.96	0.94	0.91	0.92	0.9	0.89
2	0.94	0.88	0.82	0.92	0.86	0.81	0.88	0.84	0.8	0.85	0.81	0.78	0.82	0.79	0.76
3	0.83	0.75	0.69	0.81	0.74	0.69	0.79	0.73	0.68	0.76	0.71	0.66	0.73	0.69	0.65
4	0.74	0.66	0.59	0.73	0.65	0.59	0.7	0.63	0.58	0.68	0.62	0.57	0.66	0.61	0.57
5	0.66	0.58	0.51	0.65	0.57	0.51	0.63	0.56	0.51	0.61	0.55	0.5	0.59	0.54	0.5
6	0.6	0.51	0.45	0.59	0.51	0.45	0.57	0.5	0.44	0.55	0.49	0.44	0.54	0.48	0.44
7	0.54	0.46	0.4	0.53	0.45	0.4	0.52	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.39
8	0.5	0.41	0.36	0.49	0.41	0.36	0.48	0.4	0.35	0.46	0.4	0.35	0.45	0.39	0.35
9	0.46	0.38	0.32	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.32
10	0.42	0.34	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.4	0.33	0.29	0.39	0.33	0.29

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
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	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05	0.24	0.14	0.04	0.23	0.13	0.04
2	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.14	0.04	0.23	0.13	0.04	0.22	0.13	0.04
3	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04
4	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.03	0.21	0.11	0.03	0.2	0.11	0.03
5	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03
6	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03
7	0.19	0.09	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.08	0.02	0.16	0.08	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	0.07	0.02	0.15	0.07	0.02	0.14	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	0.14	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	0.09	0.07	0.05	0.05	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	0.12	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	0.04	0.08	0.05	0.03	0.05	0.03	0.01	0.02	0.01	0
7	0.13	0.07	0.03	0.11	0.06	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	0.11	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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	4515	4486	4444	4415	4535	4433	4506	4419	0-5	107	107
10	4467	4497	4463	4428	4438	4349	4428	4405	5-10	319	426
15	4424	4504	4334	4428	4347	4289	4290	4328	10-15	523	949
20	4233	4423	4111	4293	4251	4134	4160	4133	15-20	708	1656
25	4048	4224	3923	4080	4087	3855	3972	3968	20-25	863	2520
30	3843	4022	3739	3858	3815	3633	3756	3653	25-30	988	3507
35	3552	3713	3458	3659	3522	3380	3484	3375	30-35	1077	4584
40	3226	3516	3130	3400	3240	3027	3200	3122	35-40	1127	5711
45	2909	3201	2791	3085	2931	2694	2879	2735	40-45	1137	6848
50	2584	2832	2477	2760	2542	2332	2514	2376	45-50	1102	7949
55	2200	2499	2037	2359	2124	1900	2162	1987	50-55	1025	8974
60	1695	2065	1463	1956	1698	1457	1672	1591	55-60	891	9865
65	1081	1681	906	1558	1084	806	1048	976	60-65	699	10564
70	618	1056	479	891	626	339	614	453	65-70	449	11013
75	236	513	145	400	221	77.8	228	136	70-75	220	11234
80	84.4	177	78.6	131	51.5	44.8	50.3	45	75-80	74.1	11308
85	75	78.7	72.3	73.4	44.8	43.1	43.6	42.6	80-85	35.9	11344
90	69.9	70.9	69.7	68.2	43.6	44.3	42	42.5	85-90	31.5	11375
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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.1V I: 1053.4mA P: 149.56W PF: 0.657 Test LM: 14073.6lm		
Lamp Name: LPFL-150XT01	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150XT01	Lamp Spec:	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	4515	4502	4489	4472	4453	4438	4425	4428	4483	4535	4490	4444	4457	4490	4487	4448	4430	4473
10.0	4467	4480	4494	4486	4470	4455	4440	4429	4434	4438	4399	4359	4375	4410	4423	4412	4411	4440
15.0	4424	4459	4495	4448	4371	4355	4397	4419	4382	4347	4321	4295	4289	4290	4298	4316	4339	4382
20.0	4233	4317	4403	4321	4180	4151	4233	4289	4270	4251	4200	4147	4143	4154	4154	4142	4144	4189
25.0	4048	4125	4205	4126	3989	3958	4028	4080	4084	4087	3986	3881	3893	3946	3971	3970	3977	4013
30.0	3843	3921	4003	3929	3801	3765	3819	3854	3834	3815	3735	3653	3673	3729	3734	3687	3674	3760
35.0	3552	3623	3696	3630	3514	3502	3593	3644	3582	3522	3460	3396	3414	3461	3460	3411	3394	3475
40.0	3226	3353	3484	3390	3215	3189	3312	3383	3310	3240	3147	3051	3084	3162	3183	3147	3133	3180
45.0	2909	3037	3169	3067	2881	2855	2988	3068	2998	2931	2827	2720	2755	2839	2848	2783	2754	2833
50.0	2584	2692	2805	2716	2555	2539	2667	2736	2638	2542	2450	2355	2391	2474	2484	2421	2399	2493
55.0	2200	2331	2466	2347	2138	2107	2253	2333	2227	2124	2026	1924	1986	2105	2124	2045	2010	2107
60.0	1695	1857	2024	1867	1594	1570	1794	1928	1811	1698	1592	1483	1527	1625	1654	1618	1603	1650
65.0	1081	1343	1615	1427	1076	1049	1344	1506	1291	1084	963	837	885	995	1032	1000	988	1035
70.0	618	810	1009	867	605	569	756	862	742	626	501	371	429	554	579	506	471	546
75.0	236	357	483	392	225	200	316	380	300	221	159	93.5	127	195	208	166	147	192
80.0	84.4	125	167	145	100	89.9	114	122	86.1	51.5	48.5	45.5	46.6	49.1	49.1	46.7	49.3	67.2
85.0	75	76.6	78.3	76.6	73.7	72.5	73	70.3	57.3	44.8	44.1	43.3	43.2	43.4	43.4	42.9	46.2	60.8
90.0	69.9	70.3	70.8	70.5	70	69.4	68.7	65.5	54.4	43.6	43.9	44.3	43.6	42.5	42.1	42.3	45.5	57.9
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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark: