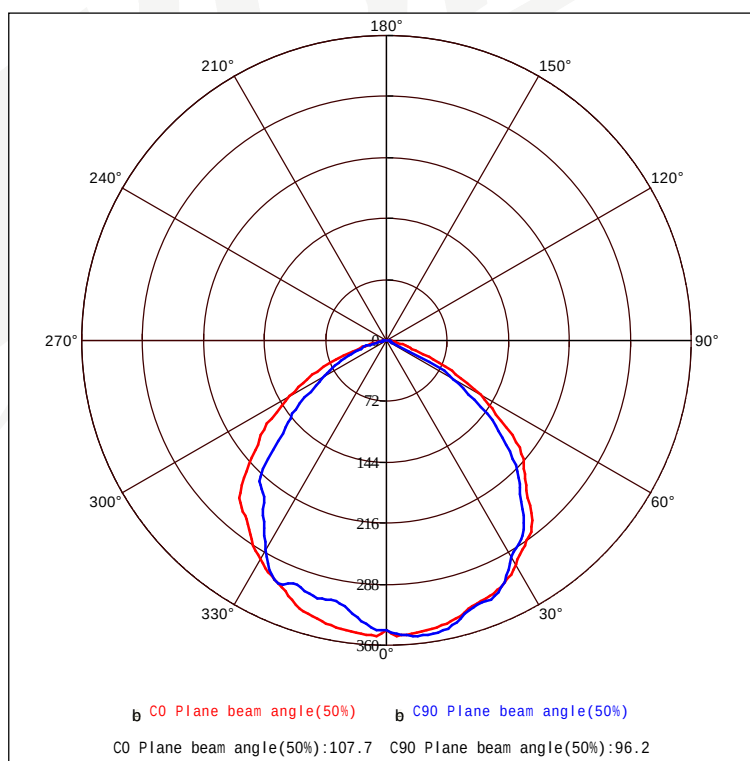


Goniophotometer Test Report

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type: Class I		Weight(kg):	
Lamp ID: LPFL-10XT01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-10XT01		Peak Value(cd)	351.5	Efficiency(lm/w)	89.5
Nominal P(w)		1.0	Position	45.0,9.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	877.1	Down(C0-C180)	53.7
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)	46.3

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

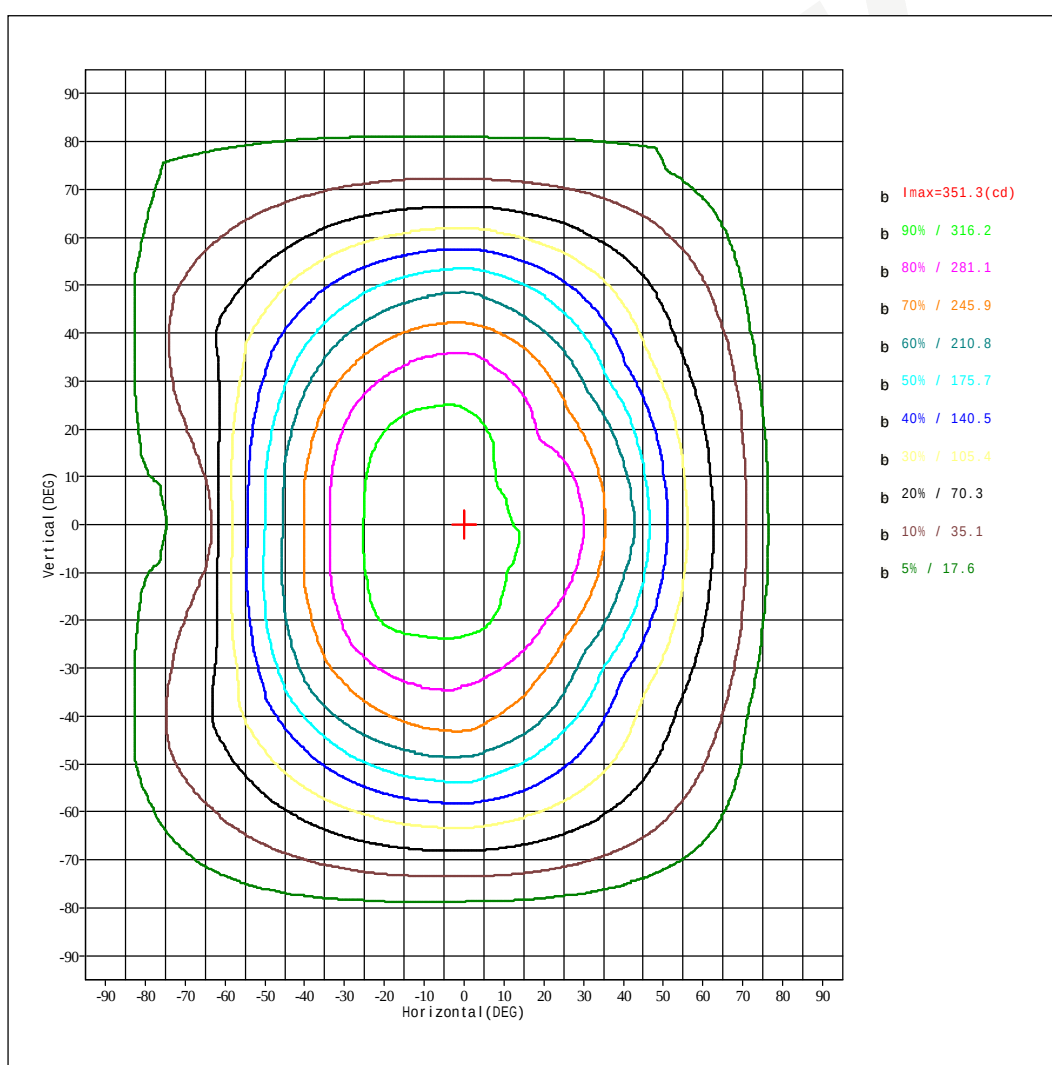
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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

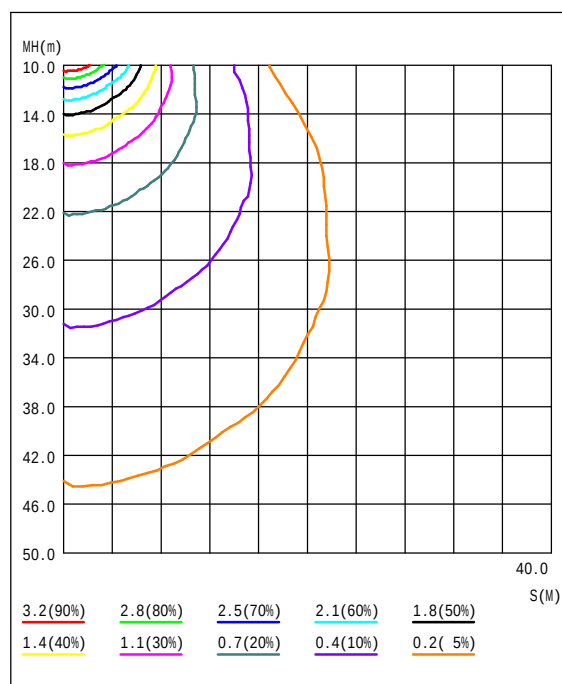
Humidity(%): 60

Date: 2021-10-11

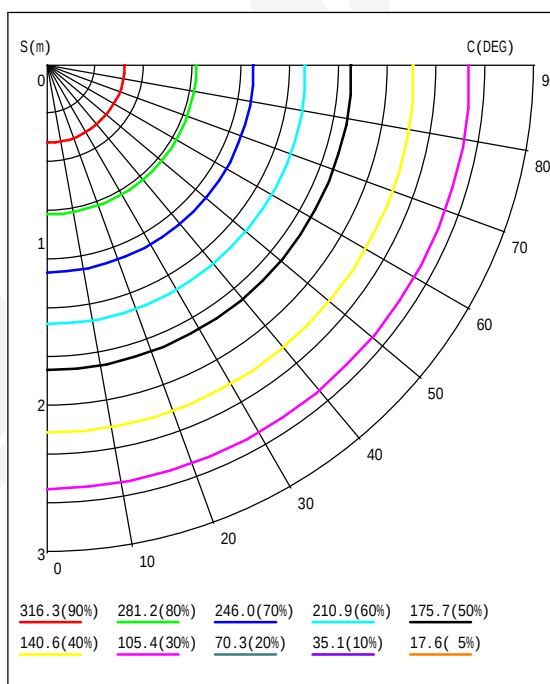
Remark:

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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

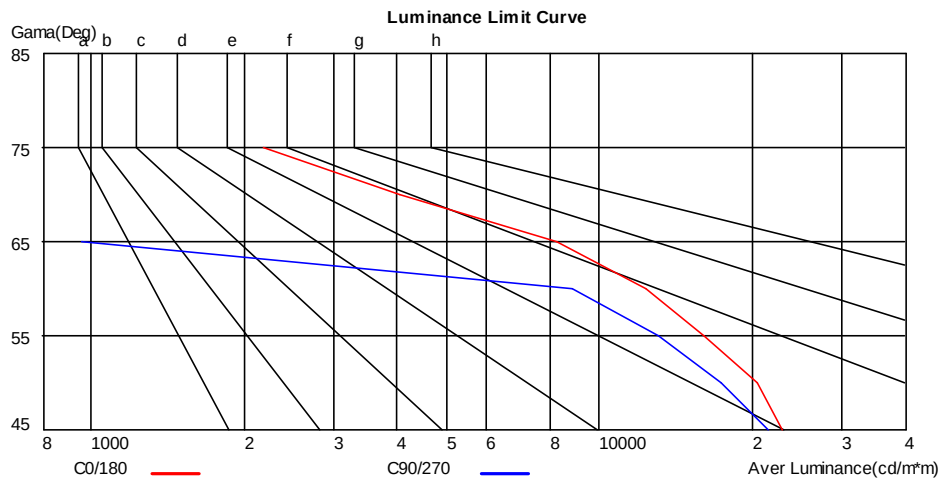
Remark:

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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	23021.5	20544.3	16070.1	12363.8	8218.5	4046.3	2183.8	790.8	391.9
C90	21593.0	17362.8	13127.5	8830.3	956.2	615.8	484.4	390.9	346.9

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

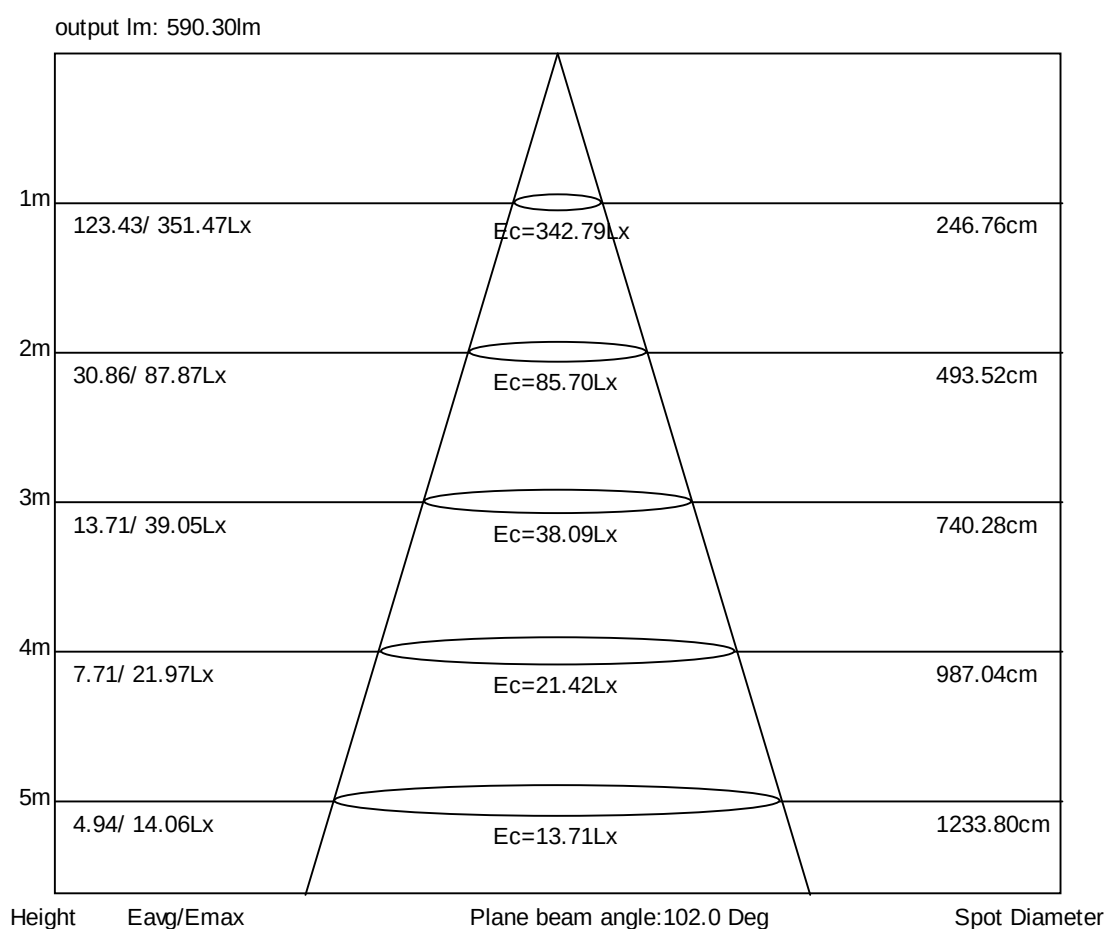
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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

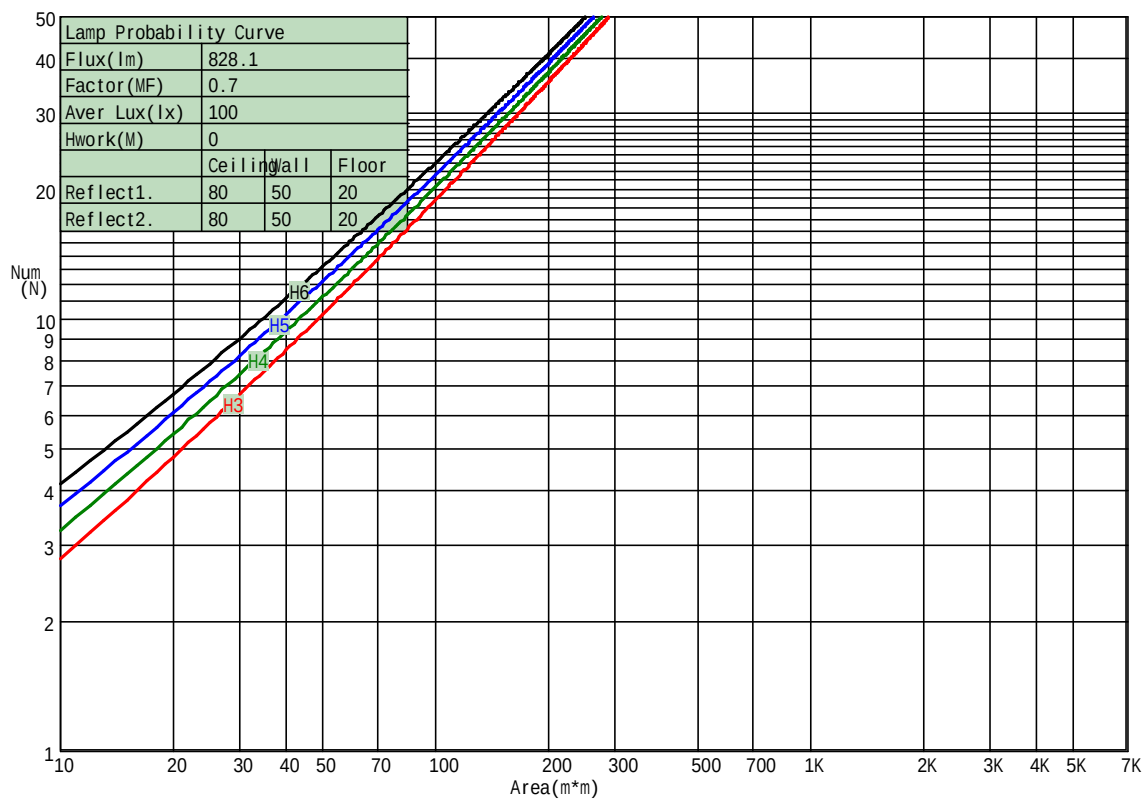
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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	56	42	33	54	41	32	51	40	32
0.80	59	44	33	57	43	33	53	41	32
1.00	62	45	34	60	44	33	55	42	32
1.25	64	47	34	61	45	33	56	42	32
1.50	66	48	34	63	46	33	57	42	31
2.00	68	49	34	64	47	33	57	43	31
2.50	69	49	33	65	47	32	57	42	29
3.00	70	50	33	65	47	31	57	42	29
4.00	71	50	33	66	48	31	58	42	28
5.00	71	51	33	67	48	31	58	42	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	0.83	0.92	0.87	0.82	0.89	0.84	0.8	0.85	0.82	0.78	0.82	0.79	0.76
3	0.84	0.76	0.7	0.82	0.75	0.7	0.79	0.73	0.68	0.76	0.71	0.67	0.74	0.7	0.66
4	0.75	0.67	0.6	0.73	0.66	0.6	0.71	0.64	0.59	0.69	0.63	0.58	0.67	0.62	0.58
5	0.67	0.59	0.53	0.66	0.58	0.52	0.64	0.57	0.52	0.62	0.56	0.51	0.6	0.55	0.51
6	0.61	0.52	0.46	0.6	0.52	0.46	0.58	0.51	0.46	0.56	0.5	0.45	0.55	0.49	0.45
7	0.55	0.47	0.41	0.54	0.47	0.41	0.53	0.46	0.41	0.52	0.45	0.4	0.5	0.44	0.4
8	0.51	0.42	0.37	0.5	0.42	0.37	0.49	0.42	0.37	0.47	0.41	0.36	0.46	0.4	0.36
9	0.46	0.39	0.33	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.33
10	0.43	0.35	0.3	0.42	0.35	0.3	0.41	0.35	0.3	0.41	0.34	0.3	0.4	0.34	0.3

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: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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	0.22	0.13	0.04
2	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04
3	0.24	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.12	0.04
4	0.23	0.12	0.03	0.22	0.12	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03
5	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	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	0.18	0.09	0.03	0.18	0.09	0.03
7	0.19	0.09	0.03	0.18	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	0.17	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	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02
10	0.16	0.08	0.02	0.15	0.07	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	0.14	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	0.02	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	0.07	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: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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	348	349	351	344	347	326	331	327	0-5	8.17	8.17
10	343	351	349	346	344	315	314	312	5-10	24.1	32.3
15	335	348	338	345	337	316	315	308	10-15	39.4	71.7
20	327	340	329	341	325	306	307	297	15-20	53.7	125
25	320	321	320	329	311	299	310	286	20-25	66.6	192
30	304	312	293	308	297	270	281	270	25-30	76.5	269
35	286	289	279	291	278	238	250	245	30-35	82.7	351
40	262	259	244	264	263	206	228	215	35-40	85.4	437
45	230	230	216	239	236	172	191	182	40-45	84.4	521
50	205	192	174	212	198	133	148	145	45-50	78.3	599
55	161	156	131	169	169	105	113	109	50-55	68.6	668
60	124	122	88.3	128	128	75	82	78.1	55-60	55.6	724
65	82.2	93.5	9.56	102	92.9	57.2	60.8	55.6	60-65	41.9	766
70	40.5	67.7	6.16	71.6	58	38.1	37.6	41.6	65-70	28.4	794
75	21.8	48	4.84	50.2	24.7	17.6	18.9	21.9	70-75	18.2	812
80	7.91	30.3	3.91	31.4	8.7	2.91	4.45	3.54	75-80	9.59	822
85	3.92	8.86	3.47	11.9	2.95	2.03	2.09	2.35	80-85	4.46	826
90	3.65	3.72	3.46	3.58	2.17	2.11	2.02	2.56	85-90	1.89	828
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: 216.0V I: 83.0mA P: 9.80W PF: 0.550 Test LM: 877.1lm		
Lamp Name: LPFL-10XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-10XT01	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	348	348	349	349	350	349	347	345	346	347	338	328	328	330	330	328	329	339
10.0	343	347	350	351	350	349	347	346	345	344	331	318	314	314	314	312	315	329
15.0	335	341	347	345	340	340	343	344	341	337	328	319	316	315	313	310	311	324
20.0	327	333	339	337	332	332	337	339	332	325	317	308	306	307	305	300	300	314
25.0	320	321	321	321	320	322	326	327	319	311	306	300	303	308	305	294	289	305
30.0	304	307	311	306	297	296	303	307	302	297	285	273	274	279	279	274	274	289
35.0	286	288	289	286	281	281	287	289	283	278	260	242	242	248	249	247	250	268
40.0	262	261	260	254	247	248	258	264	263	263	238	212	213	223	225	219	220	242
45.0	230	230	230	225	219	221	231	238	237	236	208	179	179	187	189	185	187	209
50.0	205	199	193	186	178	182	199	210	204	198	169	140	138	145	147	146	152	179
55.0	161	159	156	148	137	140	157	169	169	169	141	112	107	111	112	111	115	138
60.0	124	123	123	111	95.8	97	115	128	128	128	105	80.8	77.3	80.5	81.2	79.4	83.1	104
65.0	82.2	87.1	92.3	66	27.9	29.8	71.8	101	97	92.9	77.3	61.1	58.4	60	59.7	57.3	58.6	70.6
70.0	40.5	52.4	64.8	47.5	19.6	20.5	50.1	70.1	63.9	58	49.3	40.3	37.9	37.7	38.5	40.3	41.5	41
75.0	21.8	33.3	45.1	33.8	14.3	14.8	35.3	47.4	35.8	24.7	21.6	18.4	18	18.6	19.5	20.9	21.9	21.9
80.0	7.91	17.7	27.8	21.6	9.67	9.91	22.4	28.9	18.6	8.7	6.17	3.55	3.42	4.12	4.25	3.84	4.02	6
85.0	3.92	6.08	8.32	7.09	4.65	5.31	9.13	10.9	6.87	2.95	2.55	2.13	2.05	2.08	2.15	2.26	2.52	3.23
90.0	3.65	3.68	3.71	3.64	3.52	3.49	3.54	3.42	2.79	2.17	2.15	2.12	2.08	2.04	2.14	2.38	2.68	3.17
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: