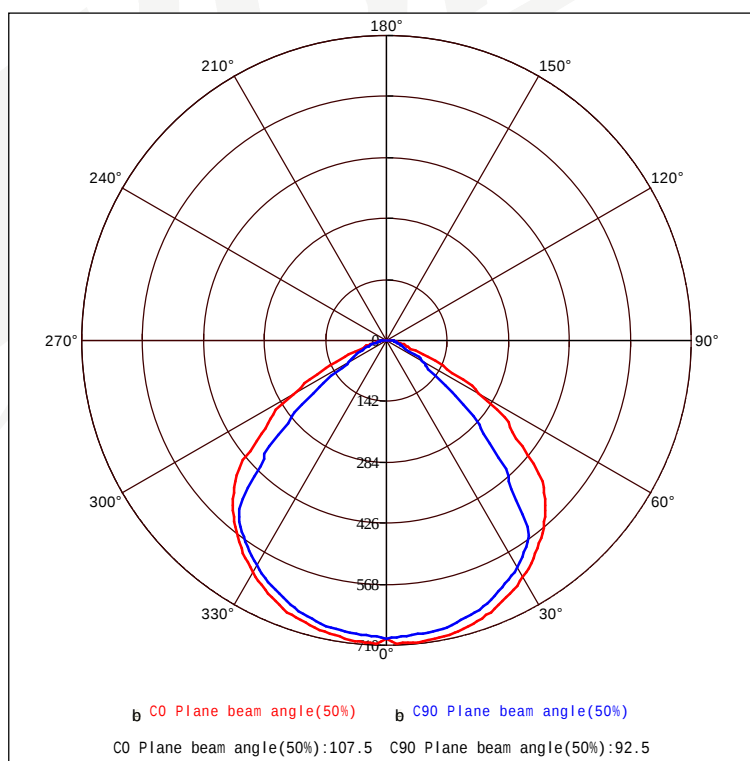


LED FLOOD LIGHT

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm						
Lamp Name: LPFL-20W			Lamp Type: CLASS I		Weight(kg):	
Lamp ID:			Lamp Spec: LPFL-20W		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-20W		Peak Value(cd)	706.9	Efficiency(lm/w)	95.3
Nominal P(w)		1.0	Position	0.0,4.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	1668.310	Down(C0-C180)	50.5
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)	49.5

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

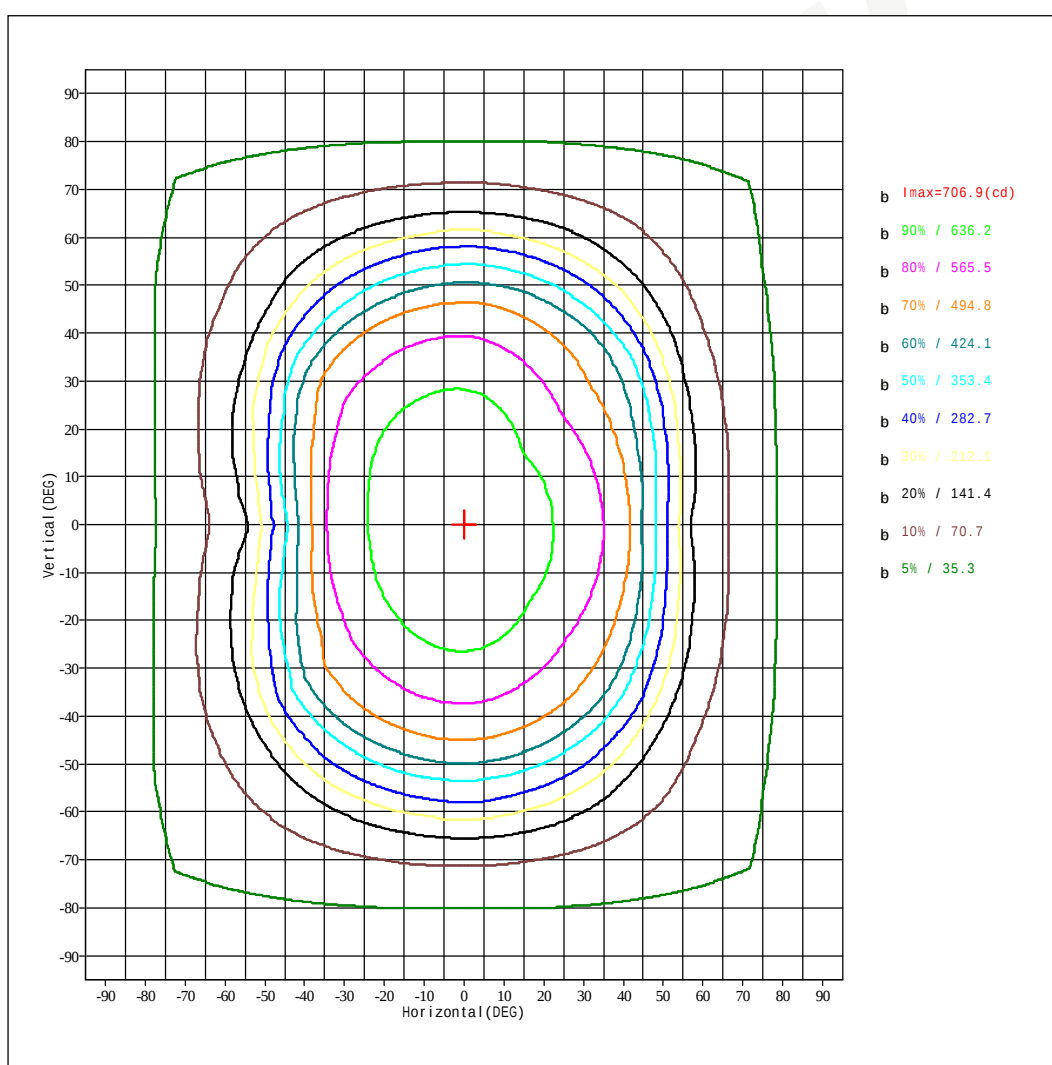
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

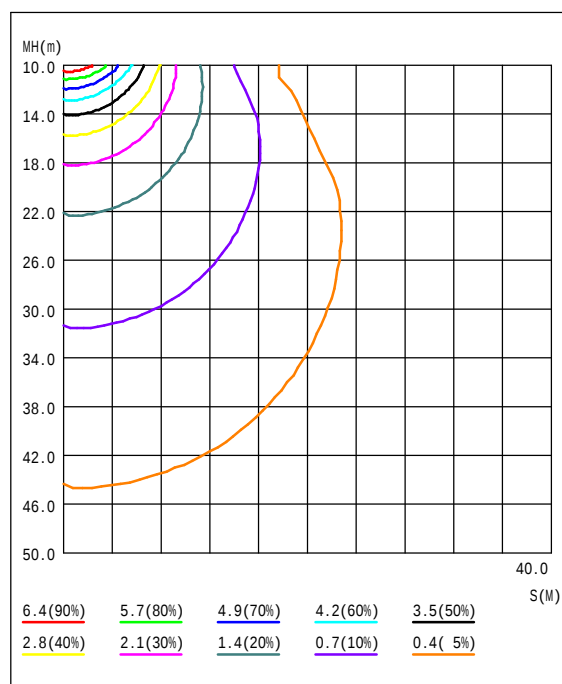
Humidity(%): 60

Date: 2019-11-12

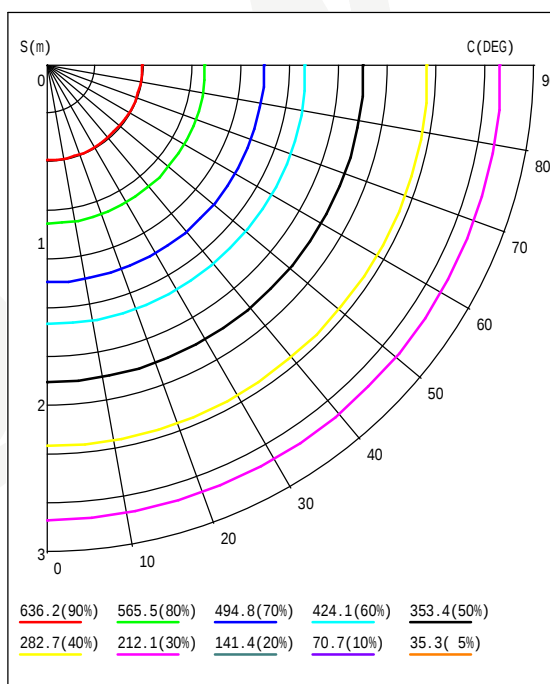
Remark:

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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): 25

Tester: zxg

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

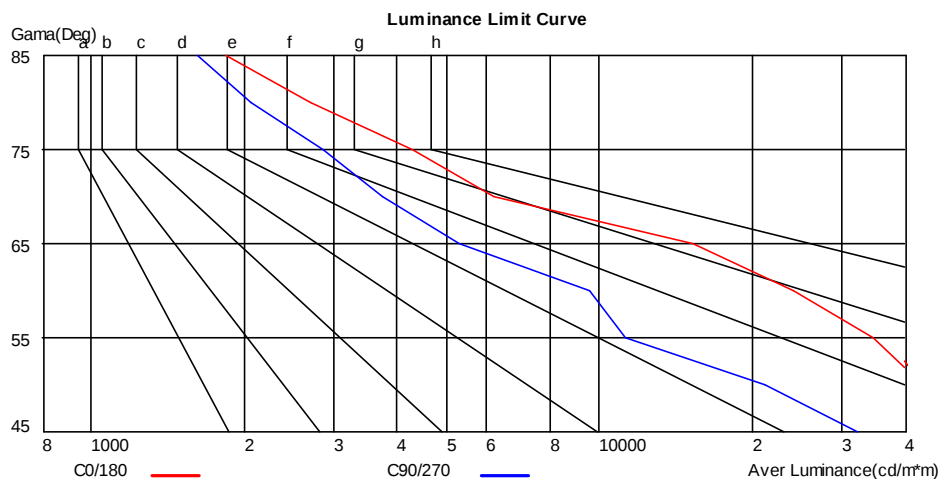
Remark:

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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	51734.9	43575.8	34711.0	24153.7	15330.4	6198.1	4296.7	2697.2	1842.9
C90	32283.7	21250.1	11316.1	9573.1	5292.9	3739.9	2860.6	2063.9	1615.5

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

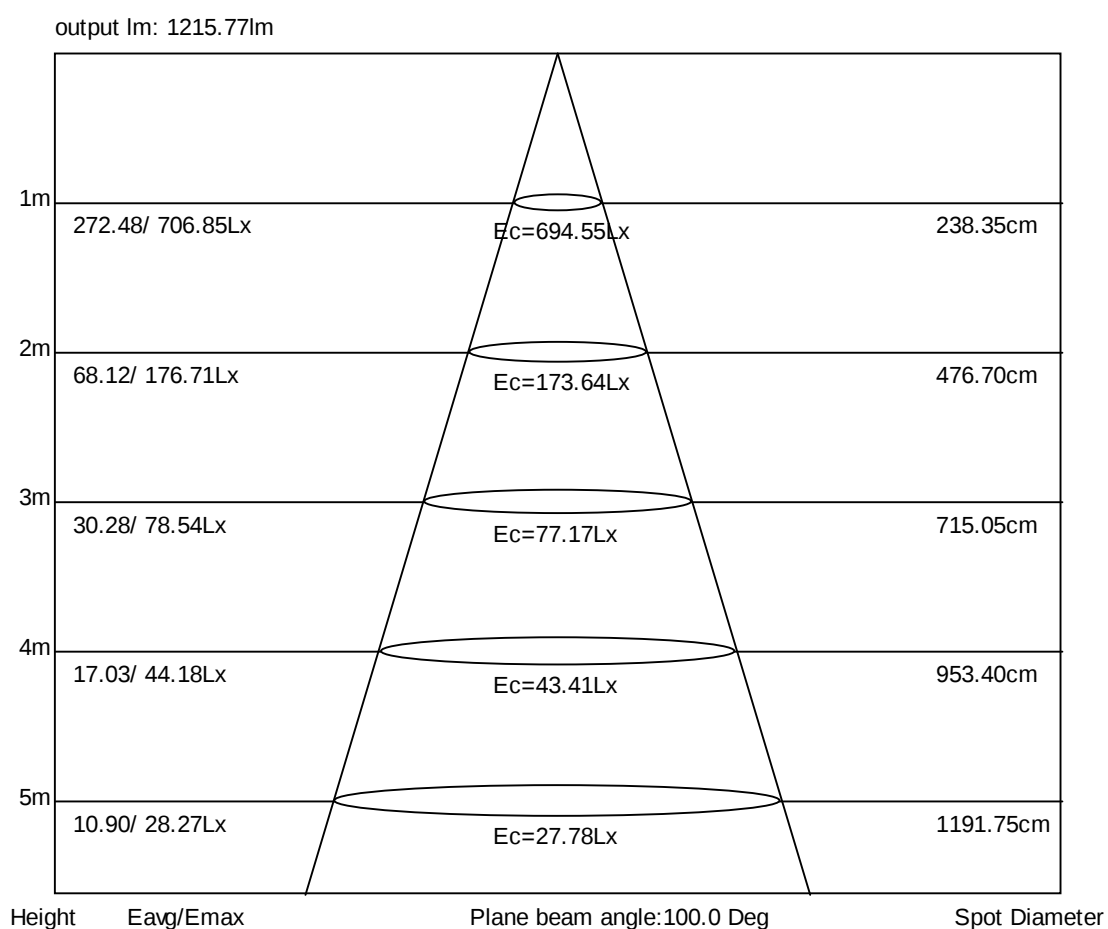
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	Shape Size:
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

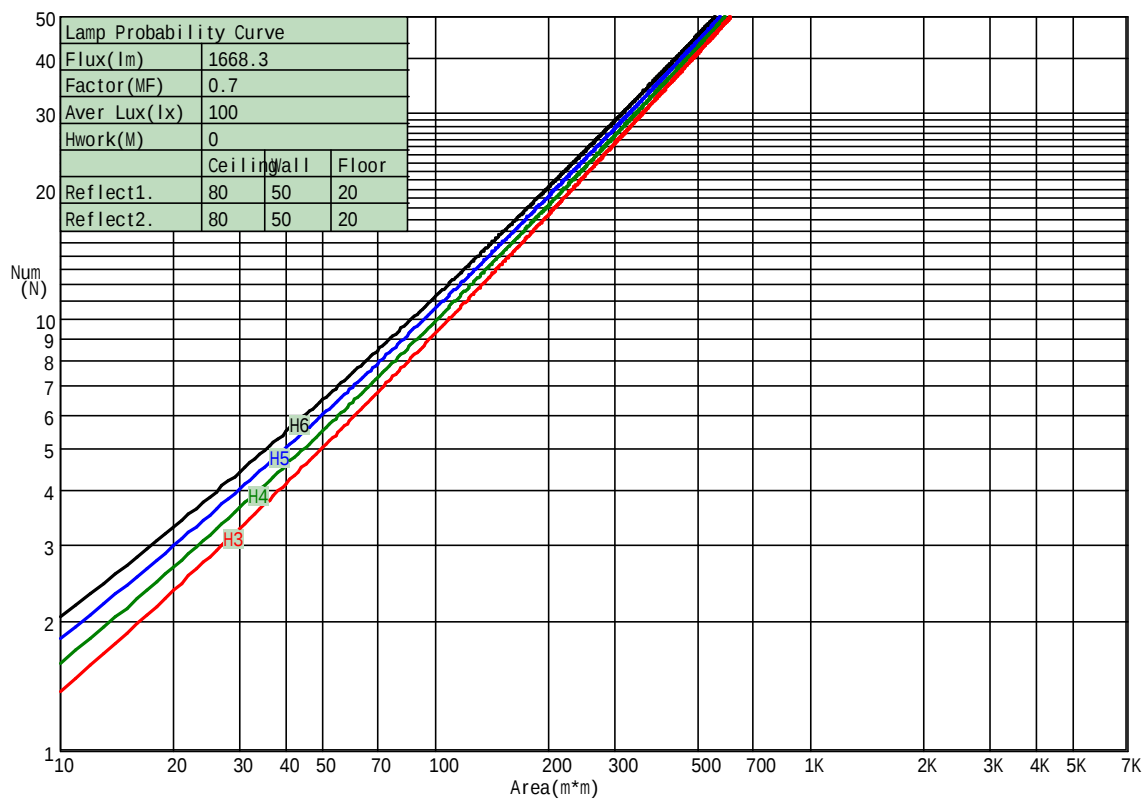
Humidity(%): 60

Date: 2019-11-12

Remark:

Measured Para U: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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): 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: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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	58	44	35	56	43	35	53	42	35
0.80	61	45	35	59	44	35	55	43	34
1.00	63	47	36	61	46	35	56	43	34
1.25	65	48	35	62	46	34	57	43	33
1.50	66	48	35	63	47	34	57	43	32
2.00	68	50	35	65	48	34	58	43	31
2.50	69	50	34	65	47	33	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	52	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	1.06	1.03	1	1.04	1.01	0.98	1	0.97	0.95	0.96	0.94	0.92	0.93	0.91	0.89
2	0.95	0.89	0.84	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.83	0.79	0.83	0.8	0.77
3	0.85	0.77	0.72	0.83	0.76	0.71	0.8	0.74	0.7	0.77	0.73	0.69	0.75	0.71	0.67
4	0.76	0.68	0.62	0.74	0.67	0.61	0.72	0.66	0.61	0.7	0.64	0.6	0.68	0.63	0.59
5	0.68	0.6	0.54	0.67	0.59	0.54	0.65	0.58	0.53	0.63	0.57	0.53	0.61	0.56	0.52
6	0.62	0.54	0.48	0.61	0.53	0.47	0.59	0.52	0.47	0.58	0.51	0.47	0.56	0.51	0.46
7	0.56	0.48	0.42	0.55	0.48	0.42	0.54	0.47	0.42	0.53	0.46	0.42	0.51	0.46	0.41
8	0.51	0.43	0.38	0.51	0.43	0.38	0.5	0.43	0.38	0.48	0.42	0.37	0.47	0.41	0.37
9	0.47	0.4	0.34	0.47	0.39	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34
10	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.4	0.35	0.31

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: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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	0.26	0.15	0.05	0.25	0.14	0.05	0.24	0.14	0.04	0.23	0.13	0.04	0.22	0.13	0.04
2	0.25	0.14	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
3	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.03
4	0.22	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.11	0.03
5	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
6	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03
7	0.18	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
8	0.17	0.09	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
9	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02
10	0.16	0.07	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	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	0.08	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	0.01
7	0.13	0.07	0.04	0.11	0.06	0.03	0.08	0.05	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	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): 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: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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	707	696	689	687	705	692	688	683	0-5	16.6	16.6
10	703	692	686	682	696	683	683	676	5-10	49.4	66
15	694	687	672	675	686	669	671	663	10-15	81	147
20	680	671	659	662	672	653	653	645	15-20	110	257
25	659	653	633	635	648	630	629	620	20-25	136	394
30	633	629	607	612	621	597	601	586	25-30	158	552
35	602	598	570	578	586	560	569	552	30-35	175	727
40	565	555	439	535	547	521	531	512	35-40	184	911
45	517	513	323	488	499	474	402	465	40-45	183	1094
50	436	397	213	412	423	368	286	411	45-50	171	1265
55	347	295	113	321	330	282	183	293	50-55	138	1403
60	242	184	95.7	214	235	149	100	175	55-60	102	1506
65	153	90.1	52.9	103	148	77.8	75.1	75.3	60-65	65.7	1571
70	62	68.6	37.4	70.4	65.4	52.3	49.3	49.8	65-70	38.6	1610
75	43	46.5	28.6	47.7	41.5	30.2	31.5	29.2	70-75	24.4	1634
80	27	31.3	20.6	30.5	23.4	17.8	20.3	17.2	75-80	16	1650
85	18.4	22.2	16.2	20.8	13.9	11.5	12.9	11.3	80-85	10.5	1661
90	15.3	16.3	15.1	15.5	9.76	9.54	9.31	9.41	85-90	7.65	1668
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: 215.9V I: 133.0mA P: 17.50W PF: 0.611 Test LM: 1668.31lm		
Lamp Name: LPFL-20W	Lamp Type: CLASS I	Weight(kg):
Lamp ID:	Lamp Spec: LPFL-20W	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	707	702	697	693	690	688	688	689	697	705	699	694	691	689	687	685	686	697
10.0	703	698	693	690	687	685	683	683	690	696	690	684	683	683	681	678	679	691
15.0	694	691	688	682	675	673	674	676	681	686	679	671	670	671	669	666	667	680
20.0	680	676	672	667	661	659	661	663	668	672	664	655	653	653	651	648	649	665
25.0	659	656	654	647	637	633	634	636	642	648	640	632	629	629	627	623	624	642
30.0	633	632	630	622	612	608	610	613	617	621	610	600	598	600	598	591	592	613
35.0	602	600	599	589	576	571	575	579	582	586	575	563	563	567	565	557	557	580
40.0	565	561	556	517	464	460	503	536	542	547	536	524	524	529	527	518	518	542
45.0	517	516	514	451	364	359	434	489	494	499	488	477	450	418	416	445	471	495
50.0	436	419	401	337	253	256	346	413	418	423	399	374	341	304	313	370	414	425
55.0	347	324	301	235	153	159	252	322	326	330	309	287	249	205	207	257	299	324
60.0	242	216	190	155	115	122	175	216	226	235	197	158	133	111	117	151	183	213
65.0	153	126	97	77.9	61.1	63.9	86.5	108	128	148	117	85.4	76.9	75.7	75.2	75.3	83.9	119
70.0	62	64.9	67.9	58.4	44.2	44.6	59.6	69.8	67.6	65.4	59.7	53.7	51.3	50	49.4	49.6	51.1	56.6
75.0	43	44.5	46.1	40.6	32.5	32.8	41.4	47	44.2	41.5	36.6	31.5	30.7	31.3	31	30	30.7	37
80.0	27	28.8	30.8	27.8	23	22.8	27.2	29.7	26.5	23.4	21	18.4	18.6	19.7	19.6	18.2	18.3	22.7
85.0	18.4	20.1	21.8	20.2	17.5	17.2	19.3	20.1	16.9	13.9	12.9	11.8	11.9	12.6	12.5	11.8	12.1	15.3
90.0	15.3	15.8	16.2	15.9	15.4	15.2	15.4	14.9	12.3	9.76	9.66	9.56	9.46	9.36	9.33	9.38	10.1	12.7
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: