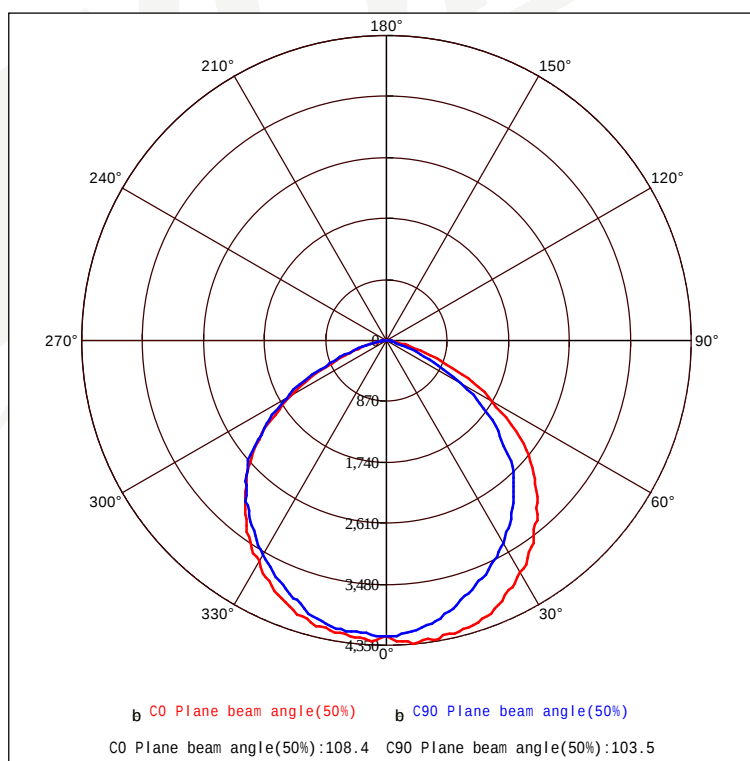


Goniophotometer Test Report

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type: Class I		Weight(kg):	
Lamp ID: LPFL-150X01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-150X01		Peak Value(cd)	4361.9	Efficiency(lm/w)	94.8
Nominal P(w)		1.0	Position	0.0,5.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	14172.6	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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

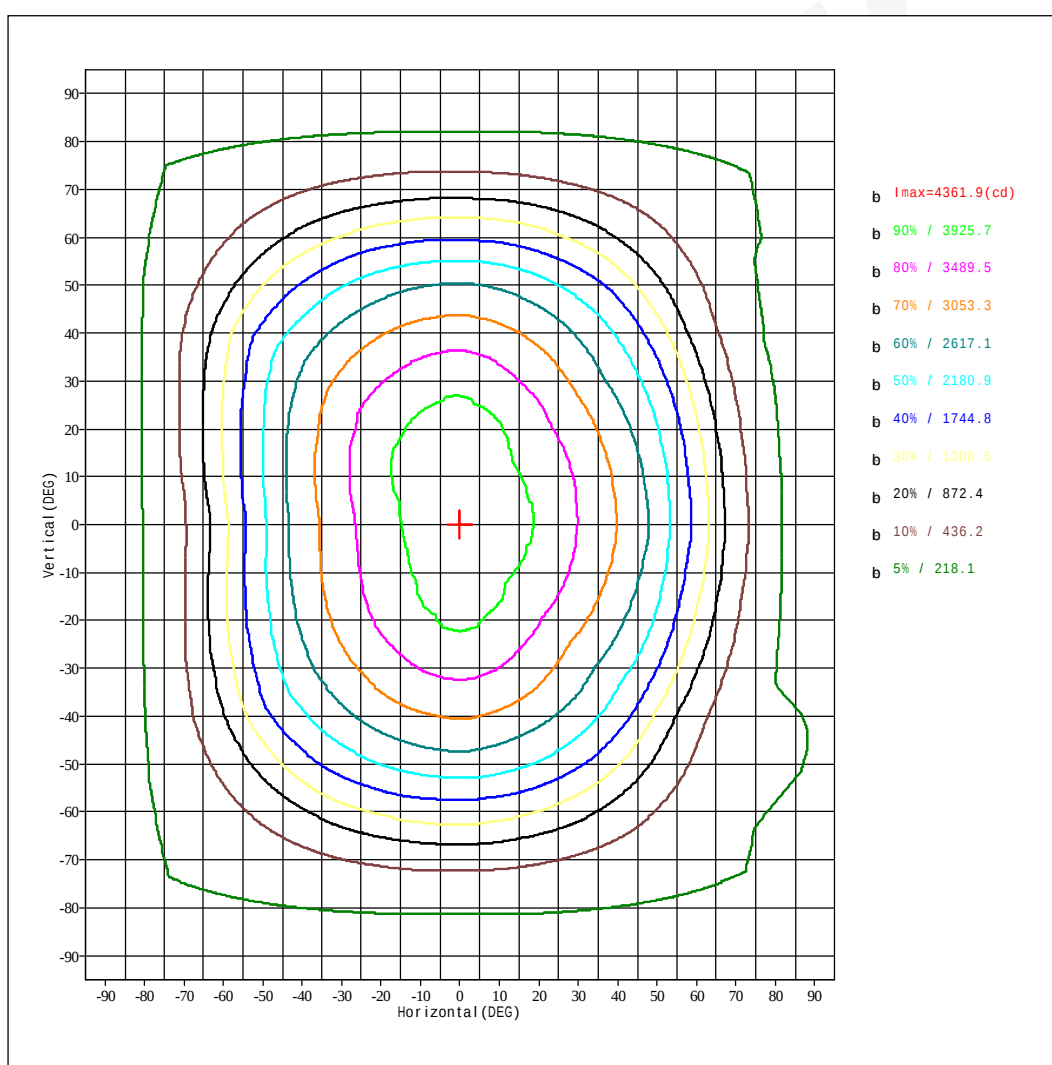
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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

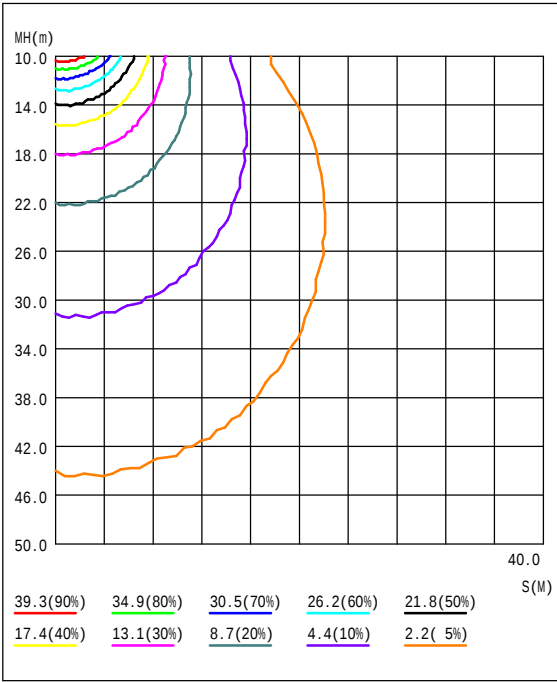
Humidity(%): 60

Date: 2023-10-23

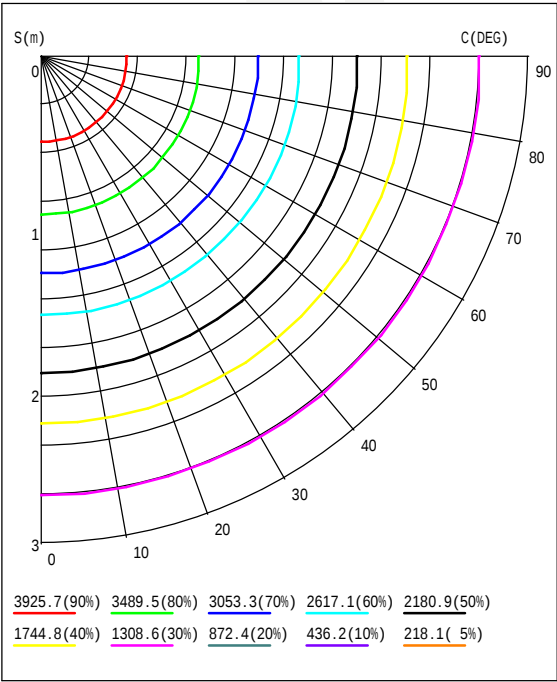
Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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: 2023-10-23

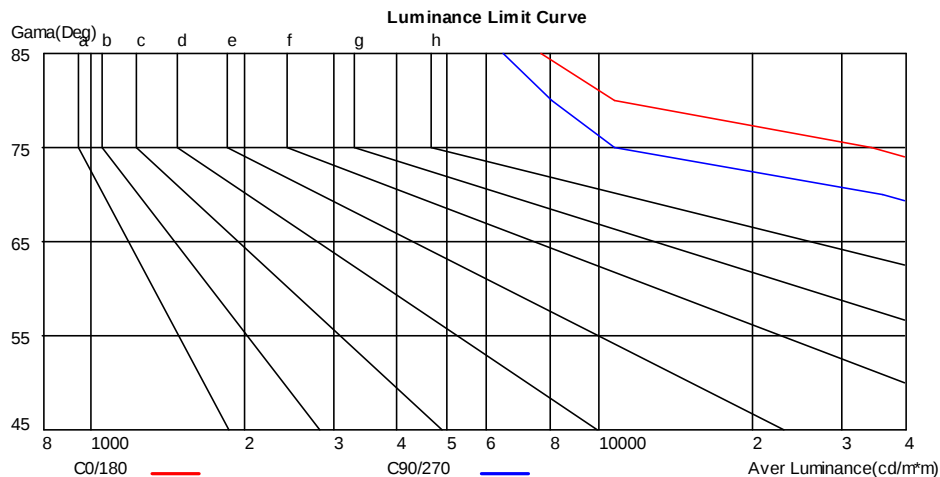
Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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	297651.1	264601.6	222288.8	170848.4	127052.1	71674.3	34483.6	10763.7	7659.2
C90	253719.9	208124.6	163654.1	113307.3	70450.7	36209.1	10745.8	8089.1	6460.0

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

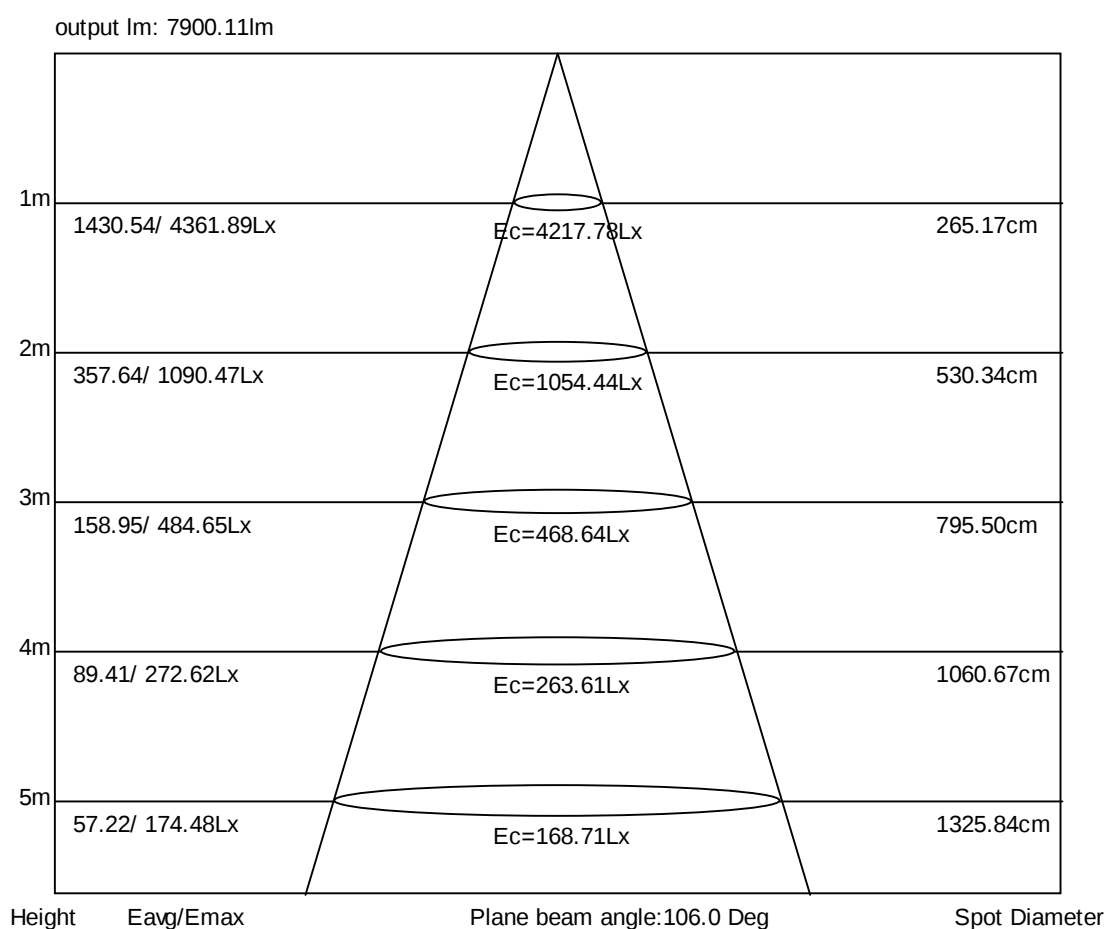
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHTX	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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

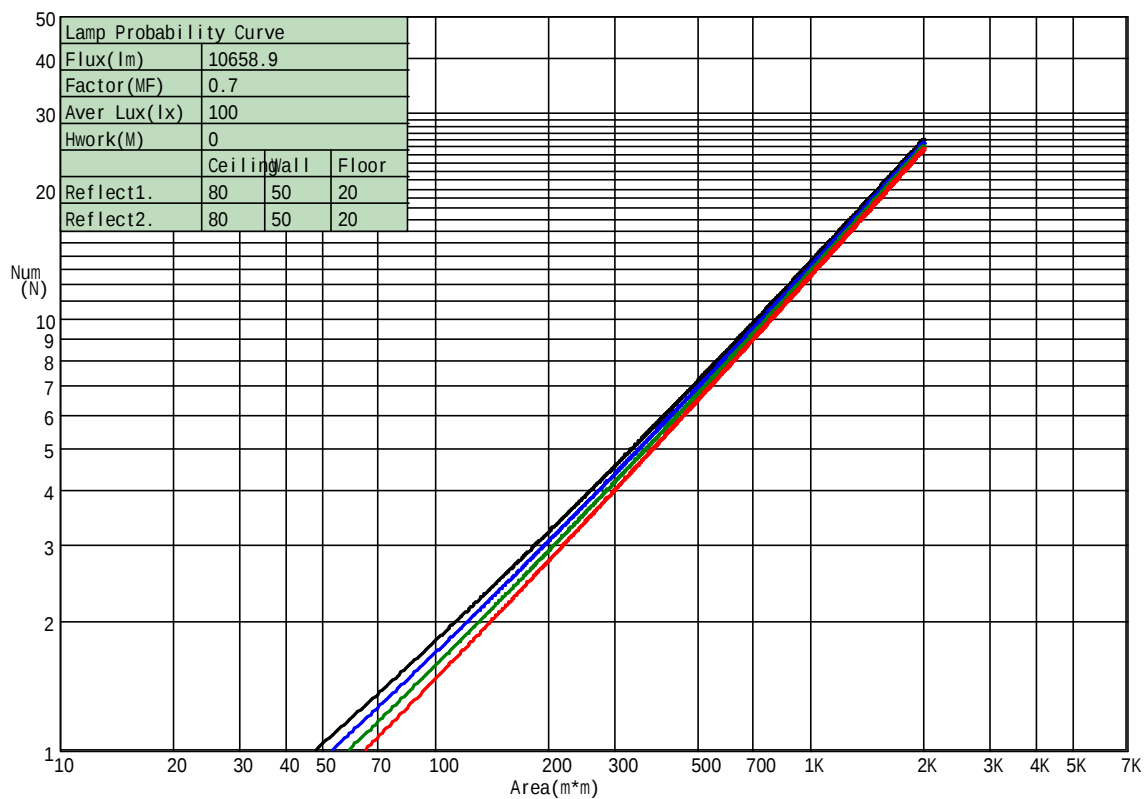
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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	41	32	54	41	32	51	39	32
0.80	59	44	33	57	43	33	53	41	32
1.00	62	46	34	60	44	33	55	42	32
1.25	64	47	34	62	45	33	56	42	32
1.50	66	48	34	63	46	33	57	43	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	47	32	58	42	29
4.00	71	51	33	66	48	31	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	1.06	1.02	0.99	1.04	1	0.97	1	0.97	0.94	0.96	0.93	0.91	0.92	0.9	0.89
2	0.94	0.87	0.82	0.92	0.86	0.81	0.88	0.84	0.79	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	0.78	0.72	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	0.45	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	0.41	0.34	0.29	0.4	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: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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	0.26	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	0.09	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: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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	4362	4280	4150	4188	4243	4215	4195	4118	0-5	101	101
10	4298	4220	4069	4083	4254	4145	4187	4124	5-10	300	401
15	4272	4143	3882	3948	4125	4015	4060	4062	10-15	488	889
20	4167	4049	3680	3852	4034	3872	3909	3946	15-20	660	1548
25	3972	3891	3515	3684	3842	3634	3719	3728	20-25	806	2354
30	3818	3694	3327	3464	3605	3390	3480	3484	25-30	922	3276
35	3587	3462	3066	3211	3421	3139	3276	3282	30-35	1008	4284
40	3332	3212	2788	2961	3082	2848	3086	3034	35-40	1058	5342
45	2977	2934	2537	2704	2792	2543	2820	2702	40-45	1072	6414
50	2646	2640	2081	2404	2450	2219	2485	2377	45-50	1043	7456
55	2223	2281	1637	2075	1969	1805	2047	2041	50-55	963	8419
60	1708	1927	1133	1615	1549	1344	1618	1547	55-60	827	9246
65	1271	1468	705	1032	1008	757	1062	933	60-65	632	9878
70	717	839	362	641	586	364	659	528	65-70	403	10280
75	345	456	107	306	272	121	318	216	70-75	218	10498
80	108	183	80.9	104	67.7	55.7	78.4	62.5	75-80	90.2	10588
85	76.6	80.6	64.6	74.8	51.9	42.8	55.7	46.4	80-85	39.6	10628
90	69.5	62.5	60.2	61.4	45.6	43.8	42.8	42.8	85-90	31.1	10659
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: 2023-10-23

Remark:

Measured Para U: 215.6V I: 743.2mA P: 149.5W PF: 0.933 Test LM: 14172.6lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-150X01	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	4362	4326	4289	4237	4178	4158	4176	4194	4219	4243	4231	4218	4209	4199	4178	4143	4145	4255
10.0	4298	4264	4228	4170	4102	4072	4078	4101	4179	4254	4206	4157	4159	4178	4173	4145	4143	4221
15.0	4272	4216	4157	4057	3939	3896	3926	3967	4048	4125	4077	4027	4030	4050	4060	4061	4085	4180
20.0	4167	4115	4062	3928	3761	3717	3795	3872	3954	4034	3963	3890	3884	3901	3917	3934	3970	4070
25.0	3972	3936	3900	3767	3597	3552	3628	3701	3773	3842	3751	3657	3662	3701	3721	3725	3755	3865
30.0	3818	3764	3707	3573	3407	3357	3419	3479	3543	3605	3511	3414	3420	3460	3481	3483	3521	3672
35.0	3587	3532	3476	3332	3152	3097	3163	3234	3329	3421	3297	3170	3184	3246	3278	3280	3315	3453
40.0	3332	3279	3225	3073	2881	2826	2904	2974	3029	3082	2980	2874	2926	3034	3074	3051	3067	3202
45.0	2977	2958	2939	2804	2624	2574	2649	2714	2753	2792	2683	2570	2634	2759	2794	2741	2732	2857
50.0	2646	2643	2640	2456	2203	2152	2298	2409	2430	2450	2349	2244	2306	2427	2461	2413	2407	2528
55.0	2223	2248	2275	2069	1777	1732	1931	2063	2015	1969	1897	1823	1884	1994	2045	2043	2061	2143
60.0	1708	1804	1904	1667	1307	1238	1457	1608	1578	1549	1459	1367	1434	1558	1602	1570	1564	1638
65.0	1271	1357	1446	1217	872	776	925	1029	1019	1008	898	784	857	995	1034	975	970	1123
70.0	717	770	825	682	466	423	549	635	610	586	489	388	461	594	630	571	549	634
75.0	345	394	444	342	184	151	241	302	287	272	206	137	186	275	296	249	230	288
80.0	108	140	174	149	103	85.9	96.4	100	83.6	67.7	62.5	57	63.2	73.5	75	67.7	67.4	87.9
85.0	76.6	78.4	80.2	75.4	68.1	66.8	71.5	72.3	61.9	51.9	47.9	43.8	47	52.9	53.7	49.5	49.7	63.4
90.0	69.5	66.5	63.3	61.8	60.7	60.4	61	59.7	52.5	45.6	44.9	44	43.5	43	42.8	42.8	45.7	57.8
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: 2023-10-23

Remark: