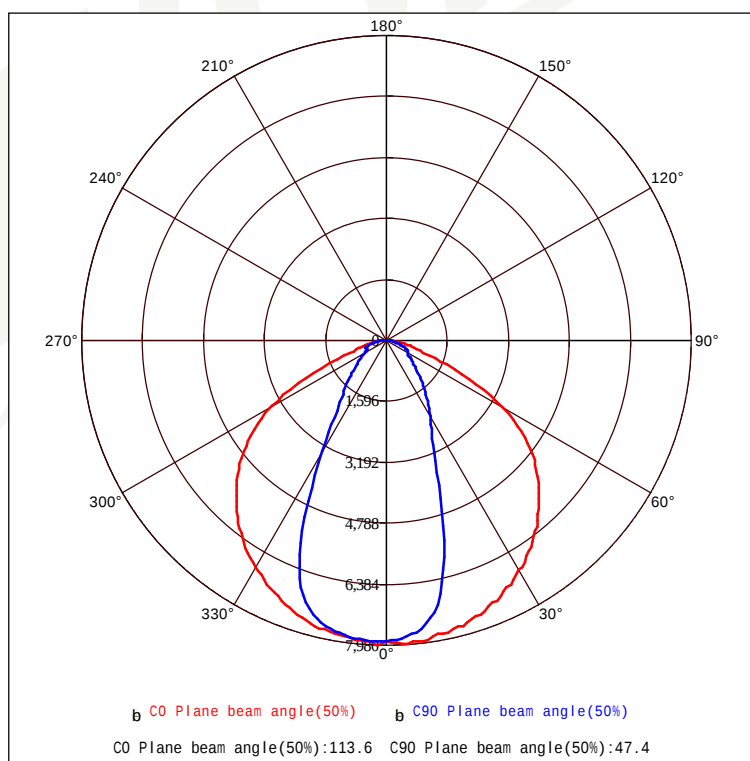


Goniophotometer Test Report

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-150M01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-150M01		Peak Value(cd)	8018.9	Efficiency(lm/w)	99.8
Nominal P(w)		1.0	Position	180.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	14920.1	Down(C0-C180)	49.1
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)	50.9

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

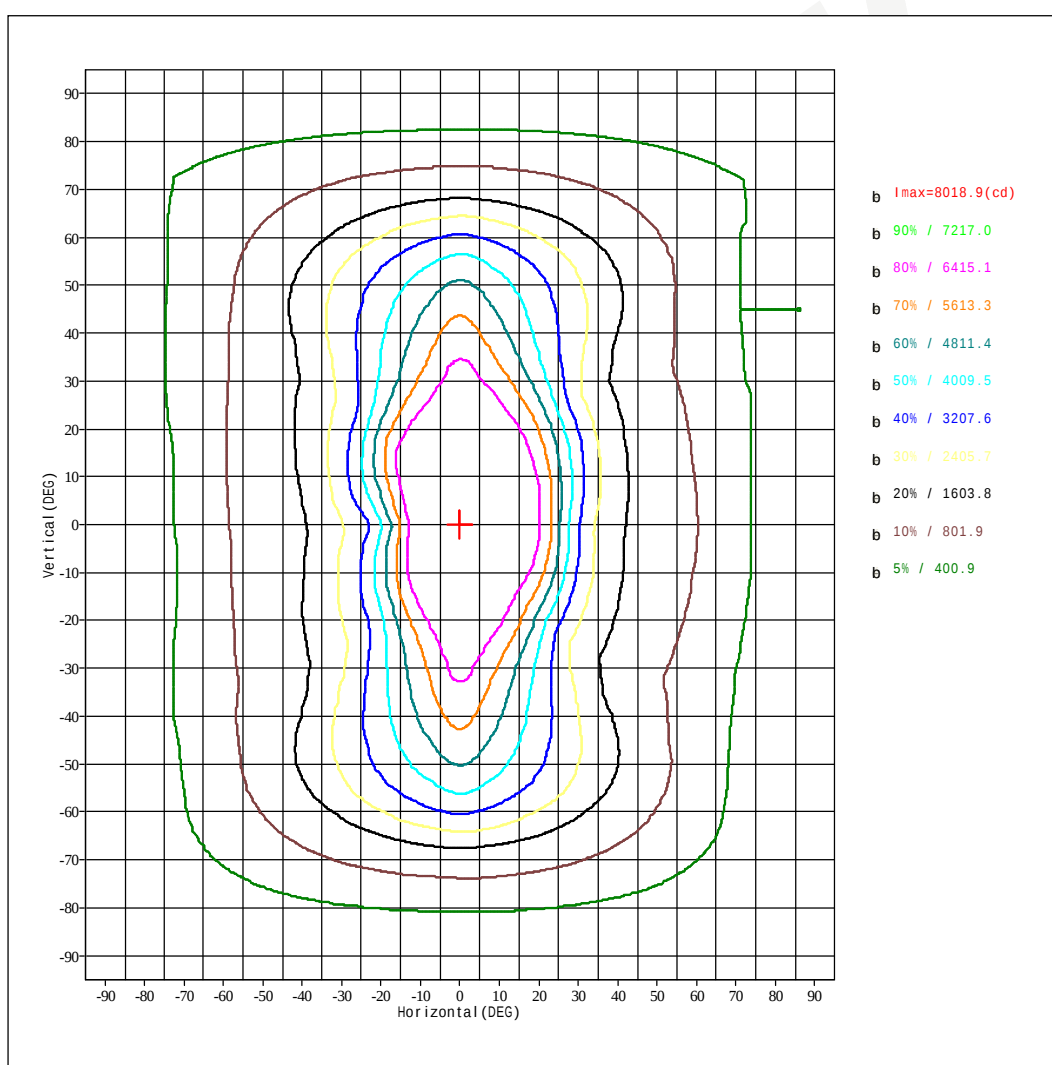
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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

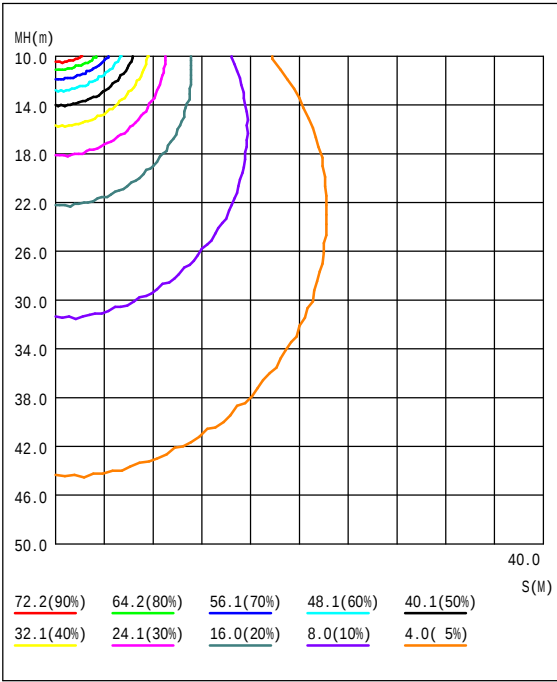
Humidity(%): 60

Date: 2023-10-24

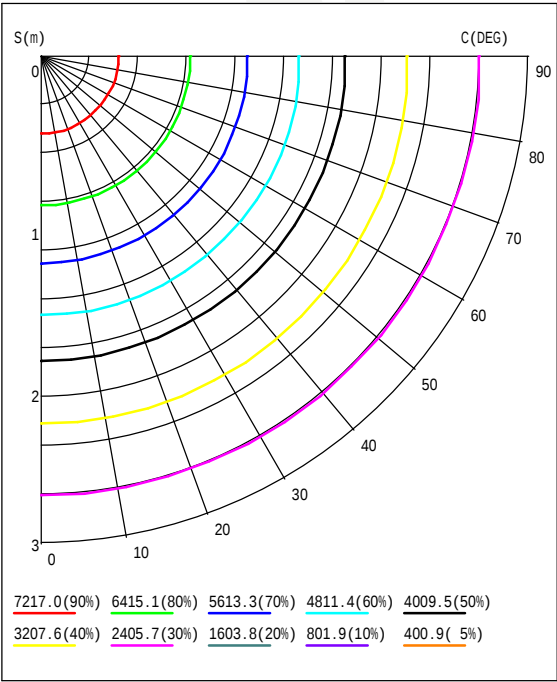
Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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: 2023-10-24

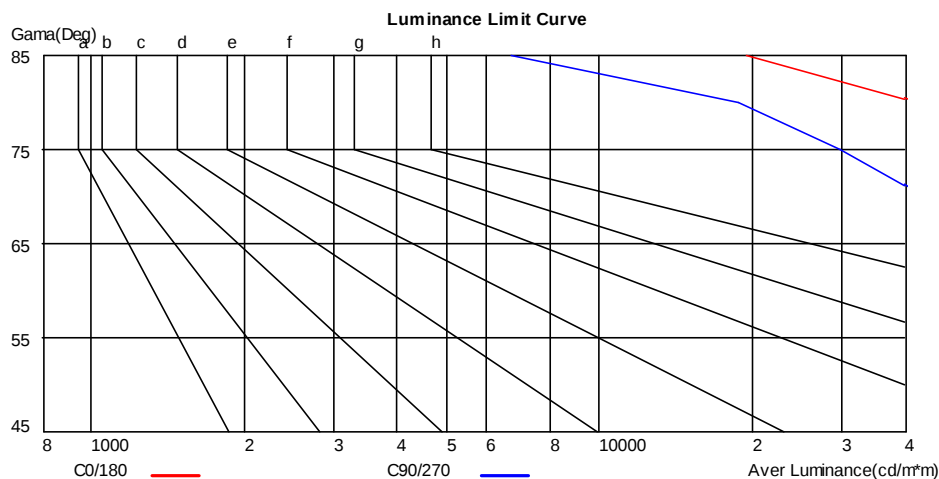
Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	559305.0	506740.4	432682.3	338299.8	228673.9	129210.5	72678.5	42466.7	19435.6
C90	108753.1	87788.5	71275.5	66205.5	59177.1	43425.9	29884.5	18839.8	6694.5

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): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

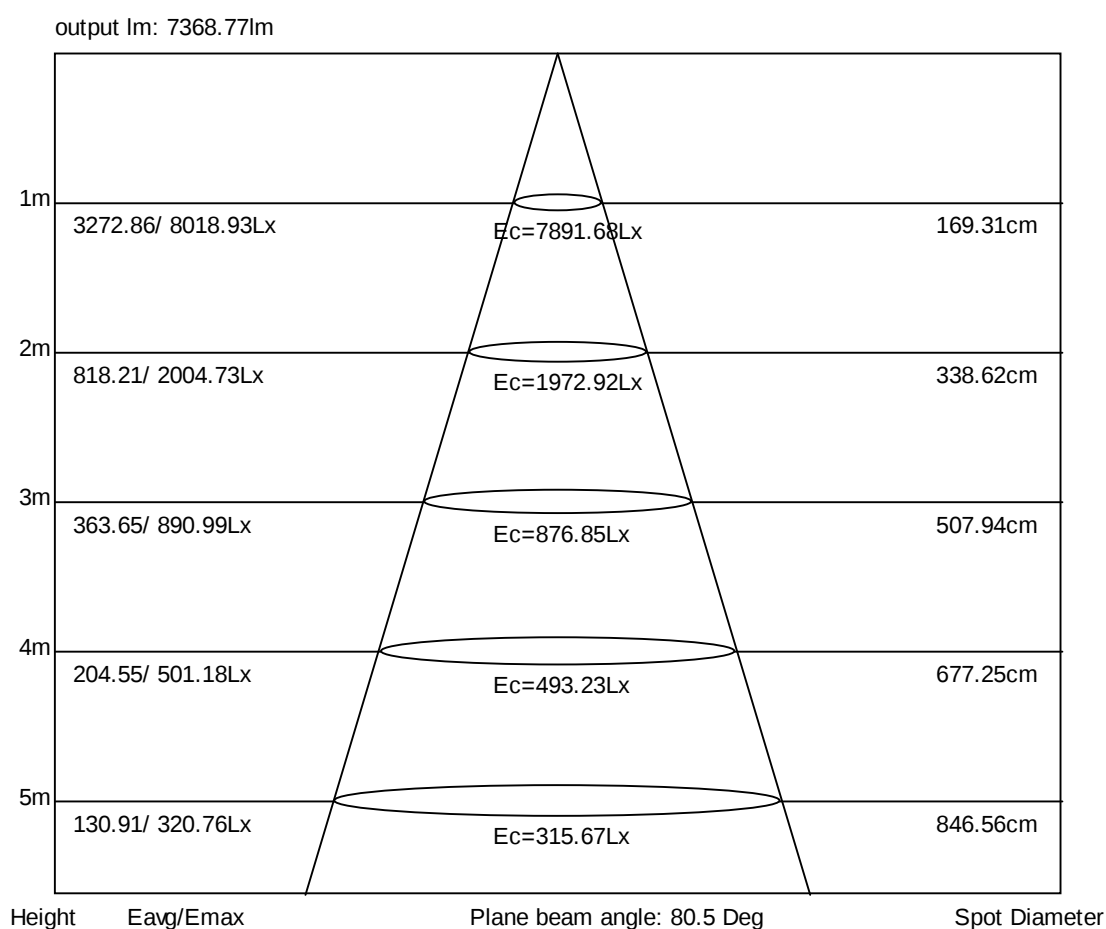
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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

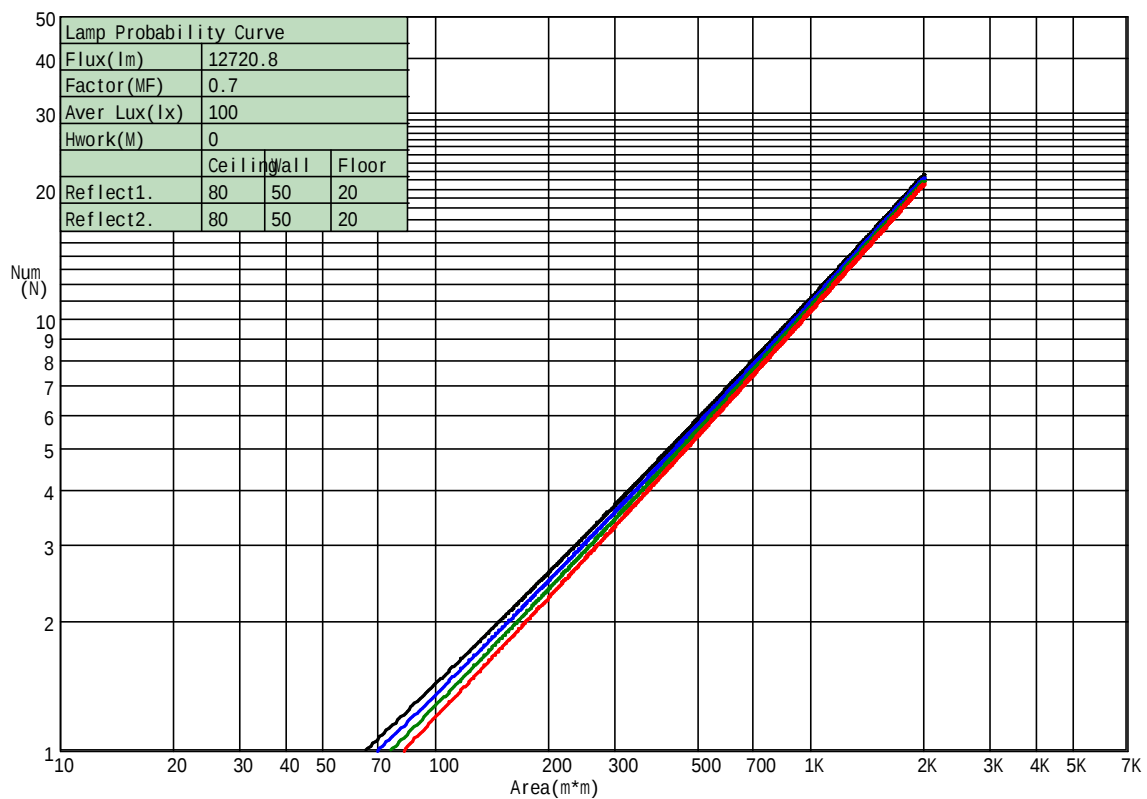
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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	64	52	44	63	51	44	60	50	43
0.80	68	54	45	66	53	44	62	51	43
1.00	70	55	45	67	54	44	63	52	43
1.25	71	56	44	69	54	44	63	51	42
1.50	72	56	44	69	54	43	63	51	41
2.00	73	56	43	70	54	42	63	50	39
2.50	73	55	41	69	53	39	62	49	37
3.00	73	55	39	69	52	38	62	48	35
4.00	74	55	38	69	52	36	61	46	33
5.00	74	54	37	69	51	35	61	46	32

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	0.99	1.04	1.01	0.98	1	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89
2	0.95	0.89	0.84	0.93	0.88	0.83	0.9	0.85	0.81	0.86	0.83	0.79	0.83	0.8	0.78
3	0.85	0.78	0.72	0.84	0.77	0.72	0.81	0.75	0.7	0.78	0.73	0.69	0.76	0.72	0.68
4	0.77	0.69	0.63	0.76	0.68	0.63	0.73	0.67	0.62	0.71	0.66	0.61	0.69	0.64	0.6
5	0.7	0.62	0.56	0.69	0.61	0.56	0.67	0.6	0.55	0.65	0.59	0.55	0.63	0.58	0.54
6	0.64	0.56	0.5	0.63	0.55	0.5	0.61	0.54	0.49	0.6	0.54	0.49	0.58	0.53	0.49
7	0.59	0.51	0.45	0.58	0.5	0.45	0.56	0.5	0.45	0.55	0.49	0.44	0.54	0.48	0.44
8	0.54	0.46	0.41	0.54	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.5	0.45	0.4
9	0.5	0.43	0.38	0.5	0.43	0.38	0.49	0.42	0.38	0.48	0.42	0.37	0.47	0.41	0.37
10	0.47	0.4	0.35	0.46	0.39	0.35	0.45	0.39	0.35	0.45	0.39	0.35	0.44	0.38	0.34

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: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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	0.26	0.15	0.05	0.26	0.15	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	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.04	0.2	0.11	0.03
4	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03
5	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.18	0.09	0.03
6	0.19	0.1	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
7	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.09	0.02	0.16	0.08	0.02	0.16	0.08	0.02
8	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
9	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
10	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	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	0.13	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	0.13	0.08	0.04	0.12	0.07	0.04	0.08	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01
7	0.13	0.07	0.04	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	0.07	0.03	0.1	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	0.05	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: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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	7922	7882	7676	7689	7888	7714	7876	7716	0-5	187	187
10	7839	7689	7187	7466	7816	7637	7681	7628	5-10	551	739
15	7724	7561	5690	7000	7636	7142	7363	7361	10-15	878	1617
20	7504	6900	3852	5812	7395	6426	6528	6903	15-20	1121	2738
25	7180	5781	2755	4447	7192	5280	4887	6187	20-25	1246	3984
30	6921	4332	2248	3256	6840	3769	3173	4990	25-30	1248	5232
35	6603	3085	1814	2562	6401	2614	2180	3561	30-35	1176	6408
40	6103	2415	1435	2090	5991	1885	1694	2391	35-40	1094	7502
45	5593	1934	1088	1684	5546	1456	1343	1727	40-45	1023	8525
50	5067	1551	878	1356	4962	1093	1004	1323	45-50	946	9471
55	4327	1235	713	1040	4255	865	796	966	50-55	853	10324
60	3383	934	662	828	3355	679	645	759	55-60	736	11060
65	2287	739	592	643	2201	514	554	580	60-65	588	11647
70	1292	560	434	512	1069	414	586	436	65-70	419	12067
75	727	439	299	377	669	312	444	342	70-75	286	12353
80	425	313	188	253	376	181	322	223	75-80	196	12549
85	194	184	66.9	144	155	81.2	211	108	80-85	115	12664
90	130	83	63.1	76	58.4	54.2	95.9	79	85-90	57.2	12721
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: 2023-10-24

Remark:

Measured Para U: 216.9V I: 696.2mA P: 149.50W PF: 0.990 Test LM: 14920.1lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150M01	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	7922	7904	7887	7815	7721	7679	7685	7711	7801	7888	7811	7733	7767	7840	7841	7769	7739	7832
10.0	7839	7774	7706	7525	7297	7248	7375	7505	7663	7816	7738	7657	7651	7671	7669	7645	7651	7747
15.0	7724	7653	7579	6947	6099	5977	6570	7070	7358	7636	7420	7196	7215	7315	7362	7361	7400	7565
20.0	7504	7239	6966	5900	4519	4281	5169	5985	6702	7395	6971	6532	6459	6506	6610	6780	6969	7241
25.0	7180	6568	5934	4788	3417	3125	3892	4748	5991	7192	6355	5489	5151	4973	5171	5761	6296	6746
30.0	6921	5788	4615	3648	2704	2469	2925	3648	5272	6840	5497	4105	3574	3303	3570	4394	5201	6076
35.0	6603	5064	3470	2668	2092	1978	2317	2982	4721	6401	4744	3028	2471	2275	2482	3108	3893	5272
40.0	6103	4490	2819	2094	1649	1578	1875	2517	4285	5991	4195	2334	1822	1736	1847	2162	2797	4479
45.0	5593	3992	2334	1656	1273	1218	1488	2107	3856	5546	3757	1904	1419	1368	1427	1601	2150	3902
50.0	5067	3529	1936	1330	1025	983	1199	1751	3385	4962	3269	1516	1063	1023	1074	1218	1733	3429
55.0	4327	2974	1574	1064	827	784	933	1392	2848	4255	2772	1236	843	811	833	910	1334	2857
60.0	3383	2311	1202	845	722	698	774	1105	2250	3355	2184	971	668	652	670	722	1046	2235
65.0	2287	1610	908	691	624	603	626	814	1519	2201	1463	699	527	545	559	571	767	1540
70.0	1292	972	640	519	462	451	487	573	826	1069	783	486	471	548	553	485	529	917
75.0	727	601	470	393	329	316	351	409	541	669	513	351	355	415	422	376	384	558
80.0	425	376	325	272	216	203	232	267	322	376	291	202	227	291	300	255	245	336
85.0	194	190	185	145	92.5	83.9	119	146	150	155	123	89.2	124	183	188	141	117	156
90.0	130	110	88.2	76.5	67.4	65.9	71.8	74.1	66.1	58.4	56.6	54.6	67.9	86.8	92.2	84.5	84.6	108
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: 2023-10-24

Remark: