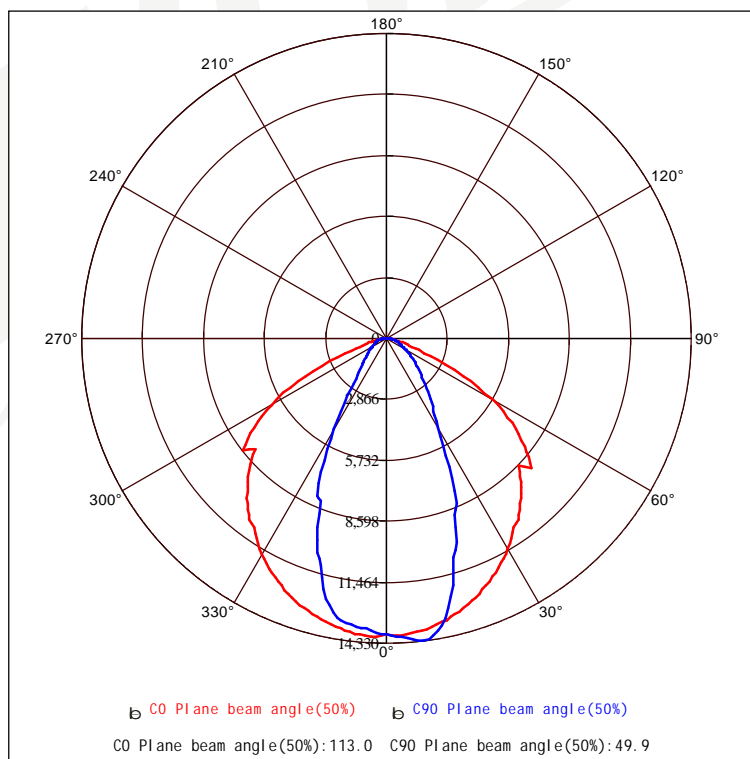


### Goniophotometer Test Report

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-200M01		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-200M01		Peak Value(cd)	14349.8	Efficiency(lm/w)	110.2
Nominal P(w)	1.0		Position	90.0, 6.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	21155.404	Down(C0-C180)	52.9
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)	47.1

### Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

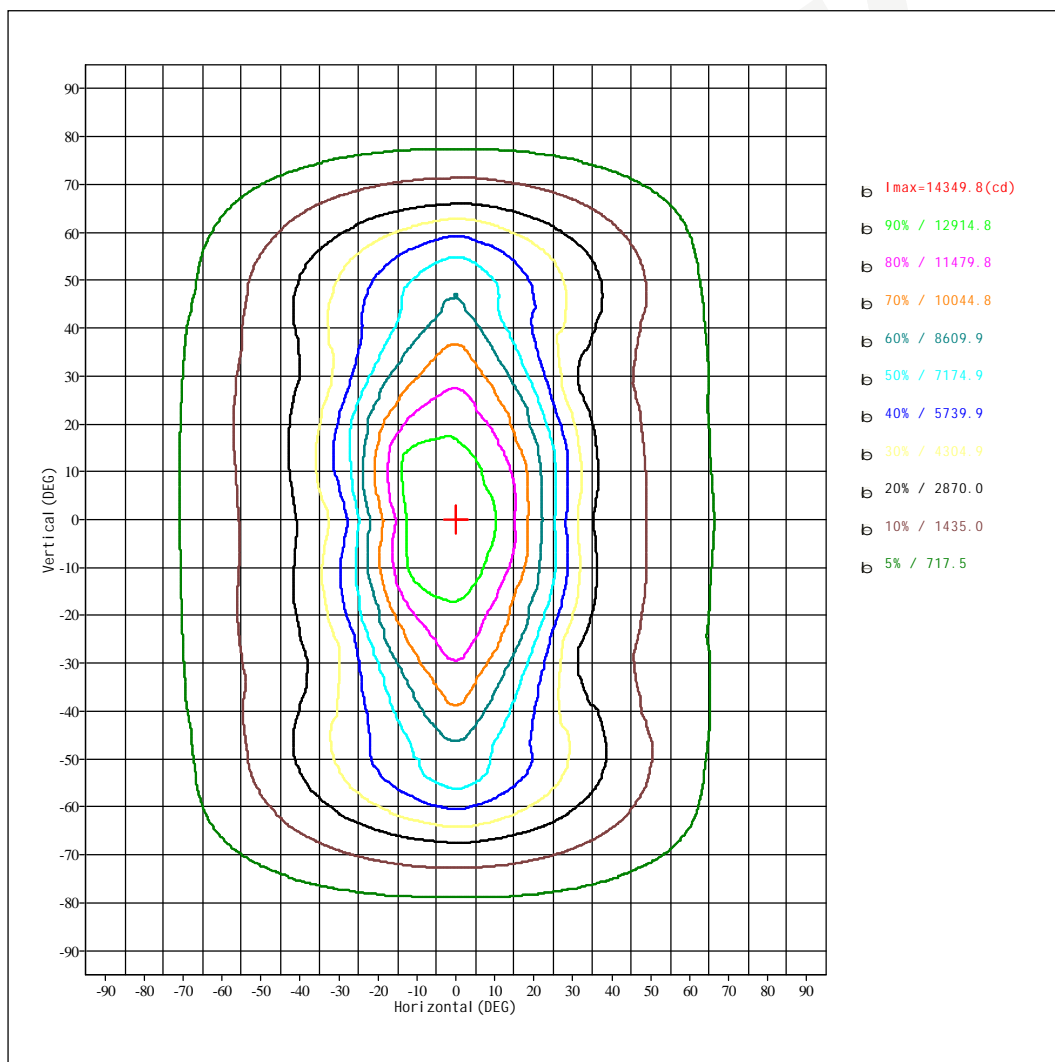
Humidity(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
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: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

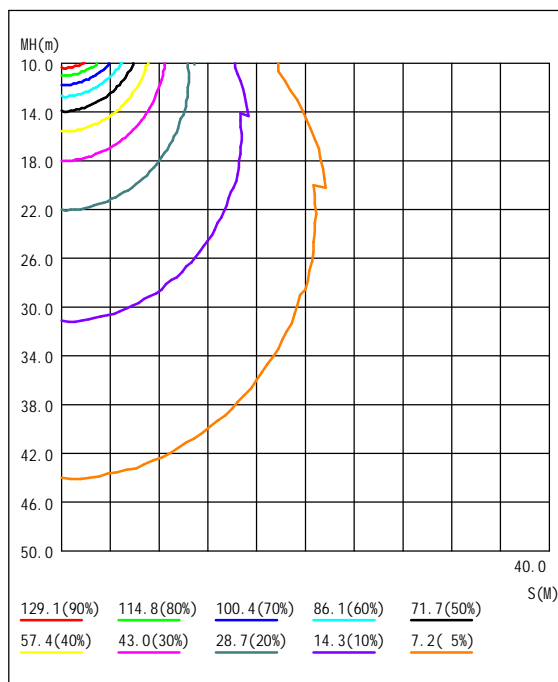
Humi di ty(%): 60

Date: 2021-5-13

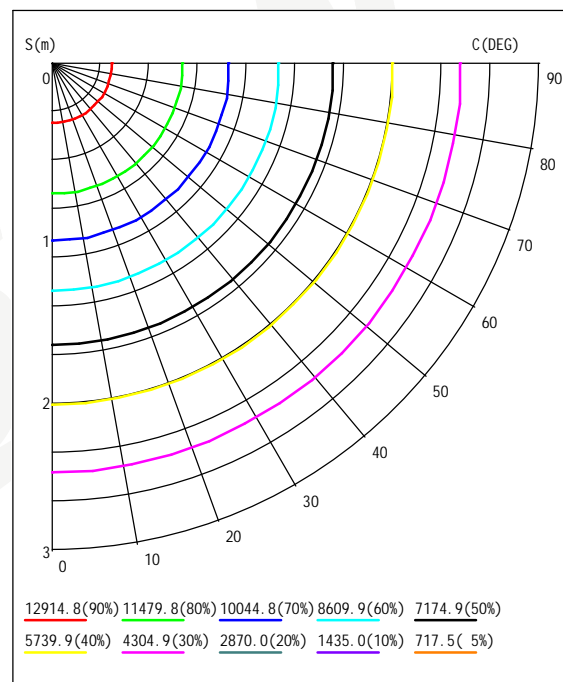
Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

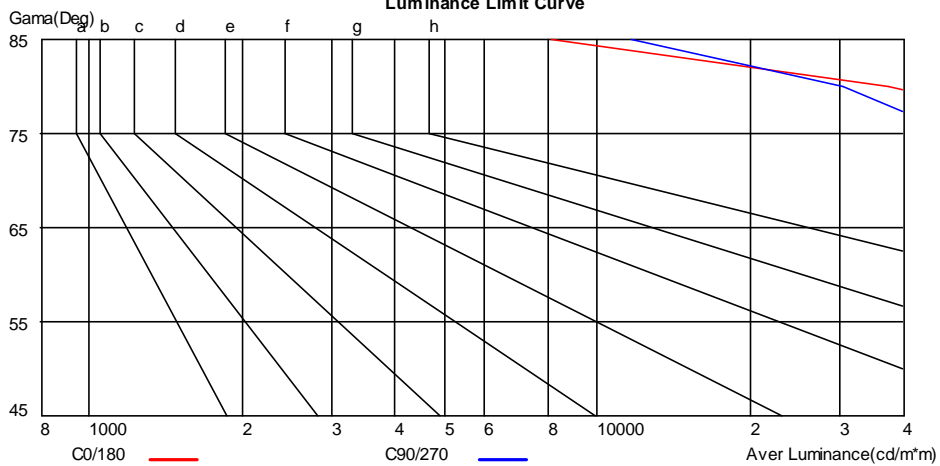
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	872712.5	858362.0	728951.8	552146.0	328160.0	151258.8	84591.5	37421.0	8104.8
C90	219038.3	170183.3	131042.0	99509.0	73630.0	61619.3	51313.8	30464.0	11670.3

Glare

Glare	Class	Illuminance(lx)							
		a	b	c	d	e	f	g	h
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

Luminance Limit Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zyg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

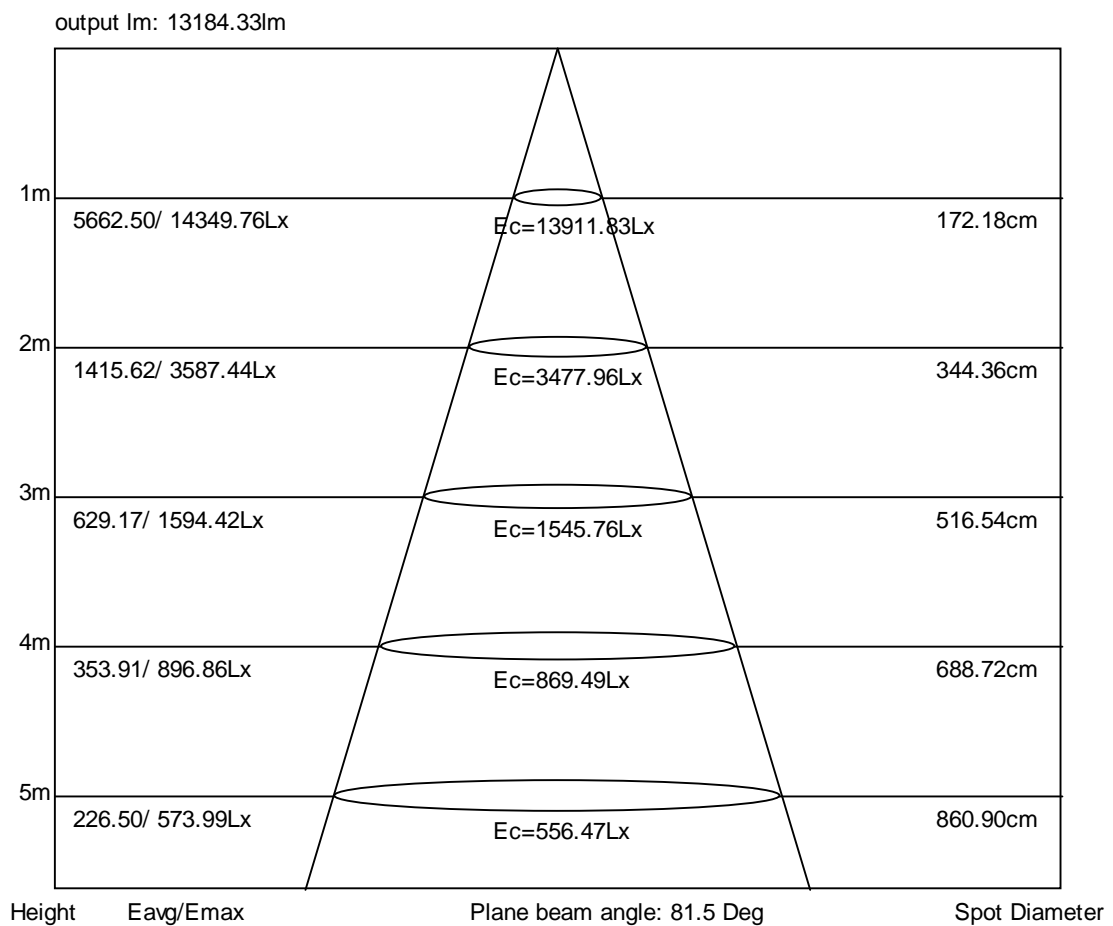
Humi di ty(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

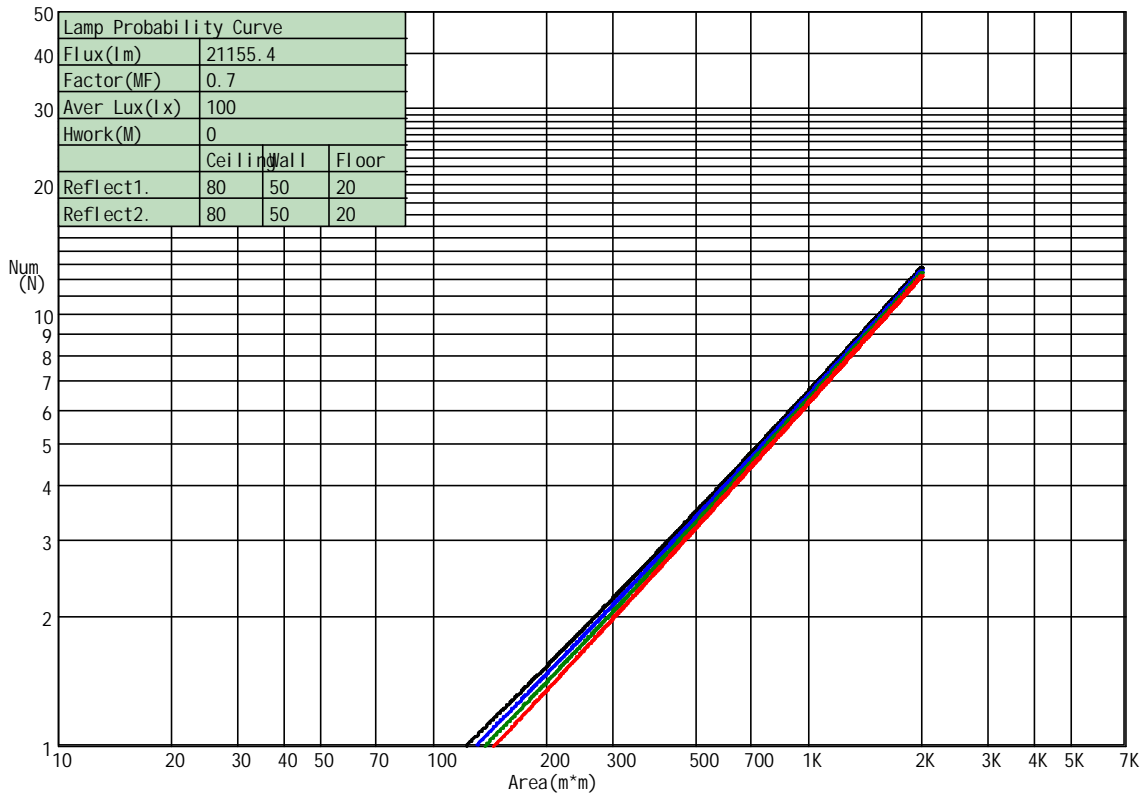
Humi di ty(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
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	63	50	42	61	50	42	59	48	41
0.80	66	52	43	64	51	42	61	50	42
1.00	69	54	44	66	53	43	62	50	42
1.25	70	55	43	68	53	42	63	50	41
1.50	71	55	42	68	53	41	63	50	40
2.00	72	55	41	69	53	40	62	49	38
2.50	73	54	39	69	52	38	61	47	35
3.00	73	54	38	68	51	37	61	46	34
4.00	73	53	36	68	51	35	60	45	32
5.00	73	53	35	68	50	34	60	44	30

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	1.07	1.04	1.01	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.9
2	0.96	0.9	0.86	0.94	0.89	0.85	0.91	0.87	0.83	0.88	0.84	0.81	0.85	0.82	0.79
3	0.87	0.8	0.74	0.85	0.79	0.74	0.82	0.77	0.72	0.8	0.75	0.71	0.77	0.73	0.7
4	0.78	0.71	0.65	0.77	0.7	0.65	0.75	0.69	0.64	0.73	0.67	0.63	0.7	0.66	0.62
5	0.71	0.64	0.58	0.7	0.63	0.58	0.68	0.62	0.57	0.66	0.61	0.56	0.65	0.6	0.56
6	0.65	0.58	0.52	0.65	0.57	0.52	0.63	0.56	0.51	0.61	0.55	0.51	0.6	0.55	0.51
7	0.6	0.53	0.47	0.59	0.52	0.47	0.58	0.51	0.47	0.57	0.51	0.46	0.55	0.5	0.46
8	0.56	0.48	0.43	0.55	0.48	0.43	0.54	0.47	0.43	0.53	0.47	0.42	0.52	0.46	0.42
9	0.52	0.44	0.4	0.51	0.44	0.39	0.5	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39
10	0.48	0.41	0.37	0.48	0.41	0.36	0.47	0.41	0.36	0.46	0.4	0.36	0.45	0.4	0.36

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxc

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Wall Exi tance 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	0.25	0.14	0.04	0.24	0.14	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.2	0.12	0.04
2	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04
3	0.22	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.11	0.03
4	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
5	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
6	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
7	0.17	0.09	0.02	0.17	0.09	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
8	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
9	0.15	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
10	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02

Ceiling Cavi ty Exi tance 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	0.06	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	0.05	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	0.11	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	0.07	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	0.11	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	0.09	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90(Deg)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2021-5-13

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0



Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.40lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-200M01	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	13866	14091	14236	14125	14042	13555	13638	13467	0-5	332	332
10	13612	14182	13876	14122	13757	13260	13237	13167	5-10	986	1318
15	13253	13827	11762	13418	13361	12295	11372	12463	10-15	1569	2888
20	12709	12650	9115	11628	12906	10324	9149	10751	15-20	1972	4859
25	12047	10541	6959	9581	12337	8549	7276	8895	20-25	2176	7035
30	11309	8355	4713	7871	11620	7119	4719	7493	25-30	2210	9245
35	10629	6778	3595	5585	10774	4866	2754	5188	30-35	2085	11331
40	9721	4674	2799	3975	10067	2930	1839	3080	35-40	1849	13180
45	8727	3432	2190	3079	9069	1889	1436	1890	40-45	1623	14802
50	8584	2677	1702	2404	7951	1454	1155	1435	45-50	1498	16300
55	7290	2069	1310	1865	7635	1134	954	1116	50-55	1399	17698
60	5521	1577	995	1427	6038	876	763	861	55-60	1200	18898
65	3282	1168	736	1062	3966	649	597	636	60-65	919	19817
70	1513	823	616	753	1884	454	529	449	65-70	592	20409
75	846	531	513	486	996	309	467	315	70-75	368	20777
80	374	295	305	290	503	190	331	199	75-80	232	21009
85	81	127	117	134	153	57.8	172	60	80-85	113	21122
90	48.1	29.2	16.8	25.1	73.1	58.4	50.1	58.3	85-90	33.4	21155
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: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2021-5-13

Remark:

Measured Para U: 217.5V I: 914.0mA P: 191.90W PF: 0.966 Test LM: 21155.401m		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-200M01	Lamp Spec:	Shape Si ze:
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	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k
10.0	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	14k	13k	13k	13k	13k	13k	13k	13k
15.0	13k	14k	14k	13k	12k	12k	13k	13k	13k	13k	13k	12k	12k	12k	12k	12k	13k	13k
20.0	13k	13k	13k	11k	9888	9665	11k	12k	12k	13k	12k	11k	9938	9406	9499	10k	11k	12k
25.0	12k	11k	11k	9366	7743	7533	8721	9882	11k	12k	11k	8963	8131	7554	7630	8364	9240	11k
30.0	11k	10k	8678	7160	5509	5404	6835	8281	9980	12k	9651	7612	6332	5244	5326	6583	7911	9640
35.0	11k	8944	7199	5733	4292	4031	4932	6152	8504	11k	8189	5512	4173	3216	3287	4389	5783	8249
40.0	9721	7513	5226	4059	3209	3056	3589	4641	7402	10k	6945	3711	2572	2078	2111	2673	3807	6816
45.0	8727	6410	4011	3024	2462	2385	2788	3735	6448	9069	5928	2674	1740	1535	1536	1741	2638	5736
50.0	8584	6000	3323	2357	1915	1855	2174	3011	5524	7951	5109	2165	1356	1221	1216	1343	2217	5456
55.0	7290	5005	2640	1820	1476	1432	1683	2497	5111	7635	4791	1845	1075	994	990	1063	1791	4589
60.0	5521	3796	2008	1386	1122	1090	1285	1931	4021	6038	3779	1440	839	787	784	829	1371	3482
65.0	3282	2357	1399	1027	831	808	955	1380	2695	3966	2515	1012	632	608	605	623	926	2124
70.0	1513	1211	898	755	661	646	708	877	1389	1884	1258	610	478	513	512	475	565	1047
75.0	846	708	565	525	517	507	495	542	773	996	696	385	361	433	434	365	373	614
80.0	374	340	304	298	303	302	295	314	410	503	366	224	236	300	302	242	218	298
85.0	81	101	122	123	119	120	128	136	145	153	111	68.2	95.1	147	147	96.6	62.3	71.8
90.0	48.1	39.8	31.3	25.1	19.5	18.6	22.4	30.4	52.1	73.1	66.6	60	55.6	51.9	51.9	55.6	57.2	52.6
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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2021-5-13

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0