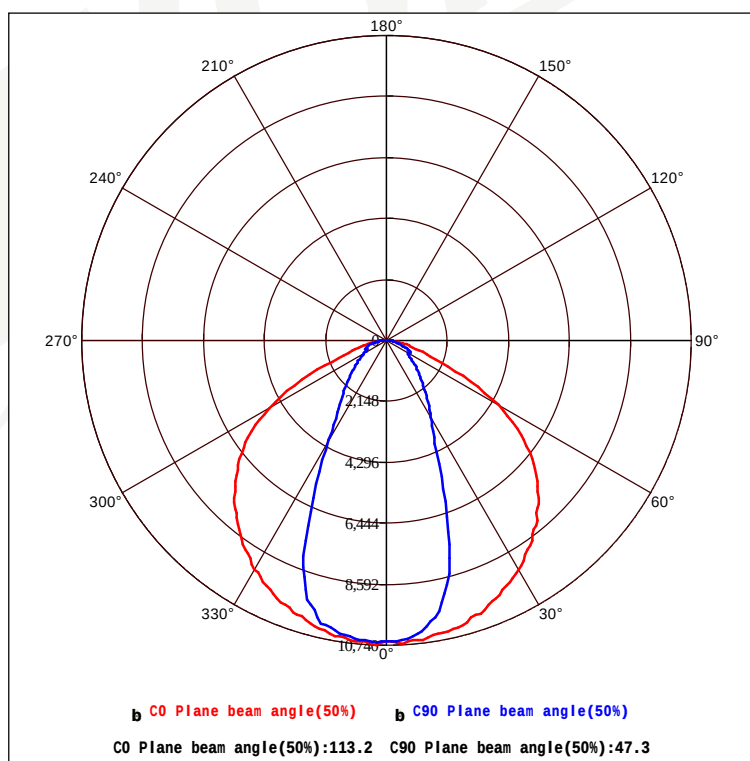


Goniophotometer Test Report

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm						
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):	
Light Source Data			Photometric Data			
Model	LPFL-200M01		Peak Value(cd)	10767.7	Efficiency(lm/w)	98.7
Nominal P(w)		1.0	Position	180.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	19582.08	Down(C0-C180)	50.4
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)	49.6

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

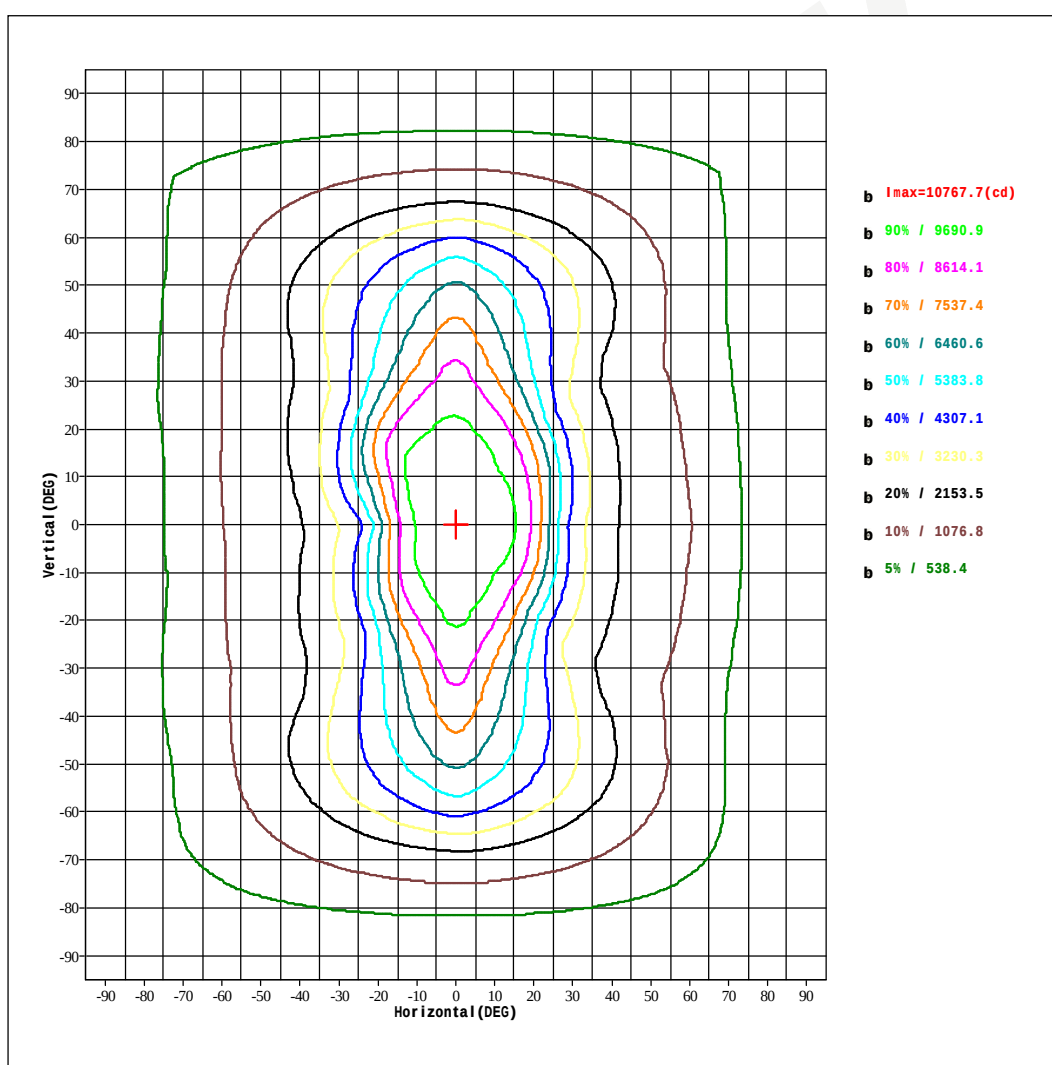
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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

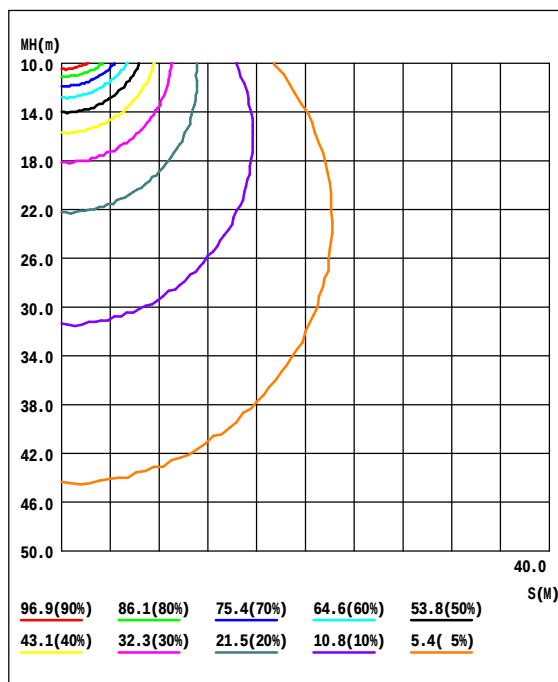
Humidity(%): 60

Date: 2023-10-24

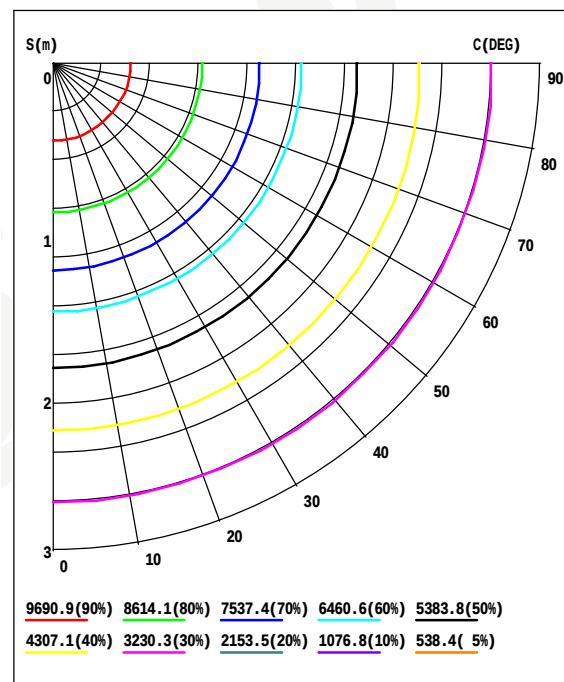
Remark:

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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

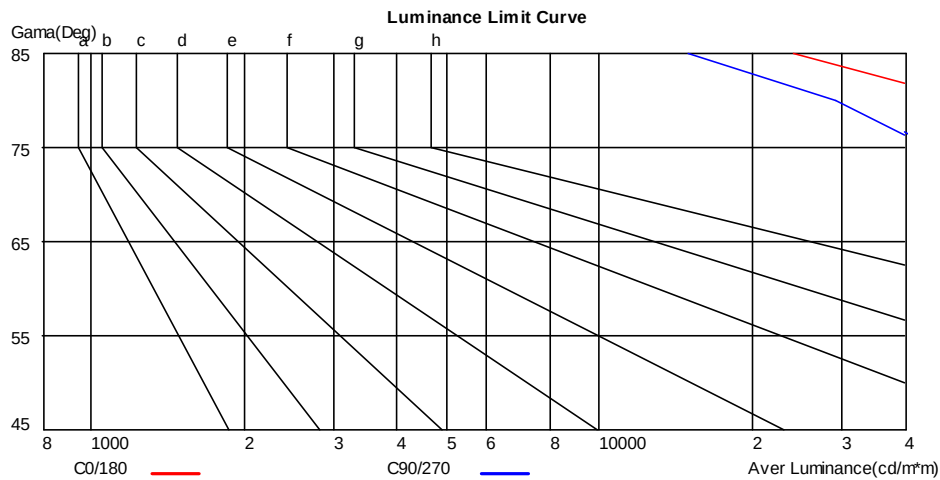
Remark:

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

Luminance Limit Curve

Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	743887.8	672482.8	570996.0	438437.6	283711.8	156774.1	93176.4	53614.3	24209.7
C90	156234.8	127232.1	97878.4	91002.5	86425.9	64022.7	45124.9	29333.1	14958.0

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

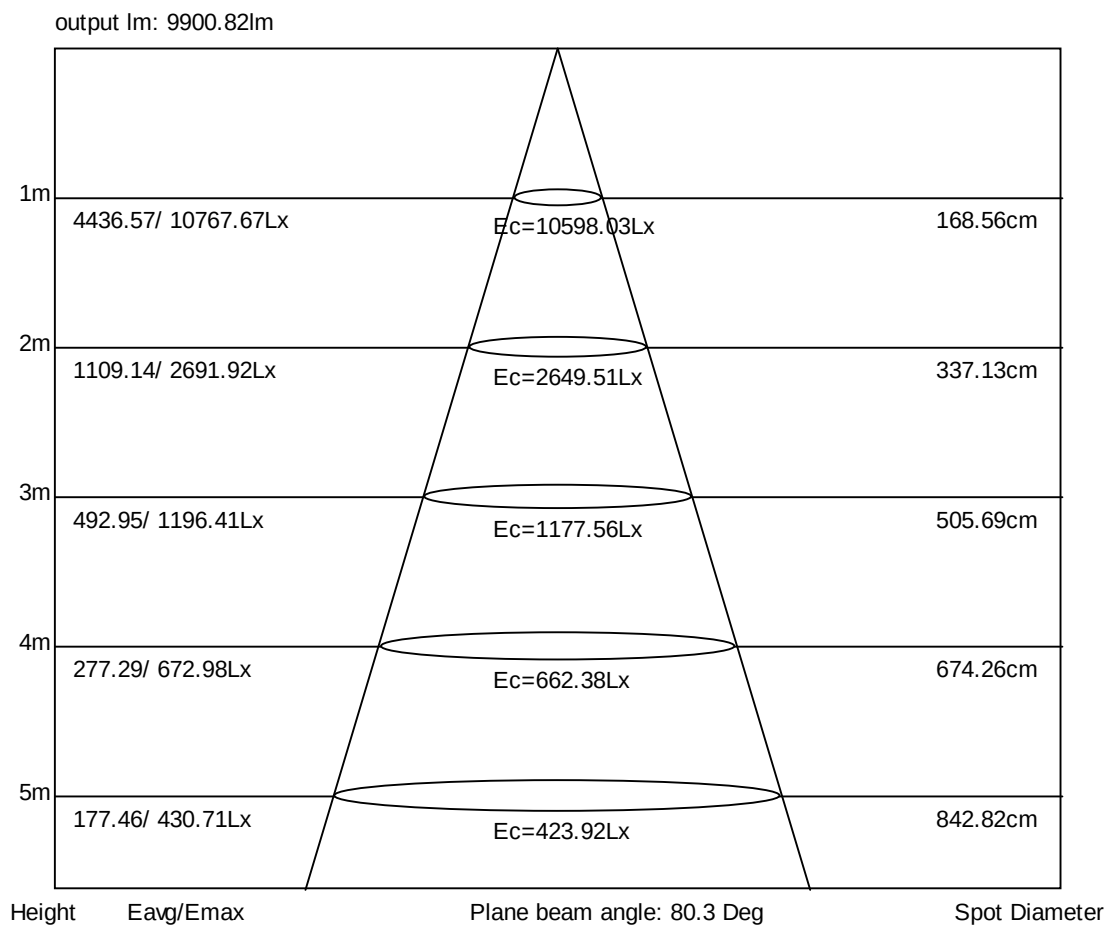
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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

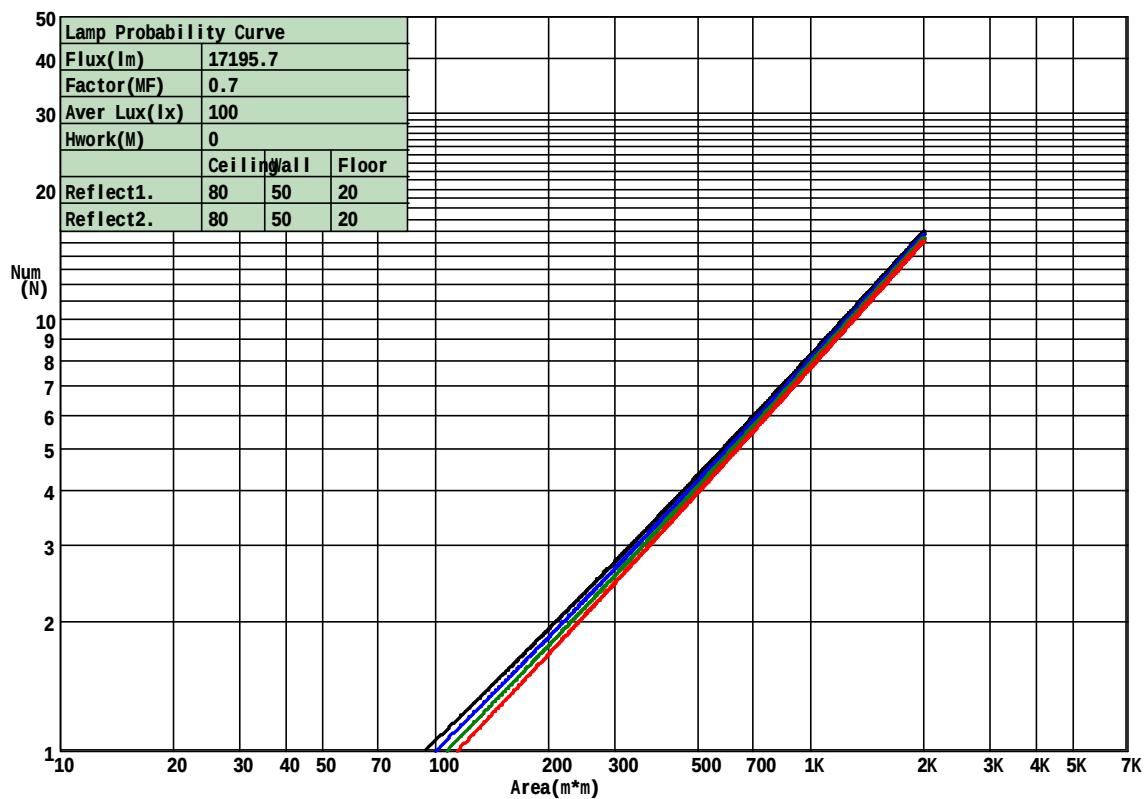
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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	67	53	44	65	52	44	62	51	43
1.00	69	55	45	67	54	44	63	51	43
1.25	71	55	44	68	54	43	63	51	42
1.50	72	55	43	69	54	42	63	50	40
2.00	73	56	42	69	54	41	63	50	39
2.50	73	55	40	69	53	39	62	48	36
3.00	73	55	39	69	52	38	61	47	35
4.00	74	54	38	69	52	36	61	46	33
5.00	74	54	37	69	51	35	60	45	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	0.89	0.85	0.81	0.86	0.83	0.79	0.83	0.8	0.78
3	0.85	0.78	0.72	0.83	0.77	0.72	0.81	0.75	0.7	0.78	0.73	0.69	0.75	0.71	0.68
4	0.77	0.69	0.63	0.75	0.68	0.63	0.73	0.67	0.62	0.71	0.65	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	0.54	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	0.53	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.5	0.44	0.4
9	0.5	0.43	0.38	0.5	0.43	0.38	0.49	0.42	0.37	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	0.34	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: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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	0.18	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	0.14	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	0.13	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: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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	10617	10689	10416	10437	10665	10468	10582	10430	0-5	253	253
10	10464	10439	9839	10255	10596	10251	10324	10306	5-10	745	998
15	10352	10192	8286	9544	10315	9579	9779	9868	10-15	1191	2189
20	10094	9683	5798	8275	9952	8492	8338	9120	15-20	1524	3713
25	9651	8529	3919	6512	9644	6628	5901	7873	20-25	1682	5395
30	9267	6774	3057	4675	9317	4737	3868	5804	25-30	1671	7065
35	8828	4828	2428	3478	8764	3363	2840	4035	30-35	1571	8636
40	8163	3452	1961	2797	8084	2571	2271	2841	35-40	1464	10100
45	7439	2706	1562	2279	7467	2030	1807	2178	40-45	1377	11477
50	6725	2142	1272	1829	6774	1621	1435	1682	45-50	1284	12761
55	5710	1698	979	1477	5846	1301	1083	1336	50-55	1163	13924
60	4384	1364	910	1202	4606	958	886	998	55-60	1001	14925
65	2837	1028	864	901	3110	738	760	758	60-65	800	15724
70	1568	786	640	730	1699	573	733	562	65-70	572	16296
75	932	647	451	565	963	403	579	422	70-75	397	16692
80	536	433	293	395	556	237	405	266	75-80	269	16961
85	242	265	150	233	240	96.4	252	137	80-85	158	17119
90	144	138	91.8	106	79.7	70.4	72	75.8	85-90	76.3	17196
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:

Lamp Photometric Data

Page 10 Of 10

Measured Para U: 216.8V I: 924.4mA P: 198.40W PF: 0.990 Test LM: 19582.08lm		
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):

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	11k	11k	11k	11k	10k	10k	10k	10k	11k	11k	11k	10k	11k	11k	11k	10k	10k	11k
10.0	10k	10k	10k	10k	9970	9930	10k	10k	10k	11k	10k	10k	10k	10k	10k	10k	10k	10k
15.0	10k	10k	10k	9567	8703	8561	9131	9628	9977	10k	9993	9660	9645	9735	9798	9839	9921	10k
20.0	10k	9914	9728	8408	6647	6340	7462	8458	9218	9952	9313	8652	8442	8372	8509	8863	9226	9668
25.0	9651	9160	8652	7017	4927	4486	5661	6854	8274	9644	8325	6958	6390	6060	6332	7226	8067	8873
30.0	9267	8177	7047	5554	3870	3411	4144	5183	7286	9317	7313	5238	4452	4058	4291	5169	6183	7752
35.0	8828	7078	5266	4041	2953	2658	3134	4056	6452	8764	6401	3954	3191	2954	3101	3643	4559	6731
40.0	8163	6102	3967	2963	2287	2144	2522	3375	5771	8084	5672	3174	2473	2337	2396	2654	3423	5834
45.0	7439	5368	3224	2331	1813	1719	2044	2846	5197	7467	5088	2625	1957	1856	1889	2057	2754	5137
50.0	6725	4720	2643	1856	1462	1394	1647	2370	4611	6774	4520	2184	1560	1475	1489	1601	2234	4519
55.0	5710	3955	2137	1462	1136	1088	1313	1955	3934	5846	3857	1798	1229	1131	1138	1253	1815	3796
60.0	4384	3063	1695	1215	1009	974	1106	1574	3117	4606	3010	1357	934	901	910	961	1368	2903
65.0	2837	2046	1226	974	900	872	889	1143	2143	3110	2072	997	745	755	759	758	985	1927
70.0	1568	1226	871	738	672	660	700	836	1275	1699	1206	696	626	698	695	618	672	1128
75.0	932	807	678	583	494	476	528	609	789	963	718	464	460	540	545	473	478	709
80.0	536	491	444	387	324	315	361	412	486	556	416	272	292	368	374	311	295	418
85.0	242	252	262	227	175	168	206	234	237	240	177	112	147	218	226	175	148	196
90.0	144	141	139	123	102	95	102	103	91.3	79.7	75.6	71.4	70.9	71.7	72.9	74.6	83.3	114
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: