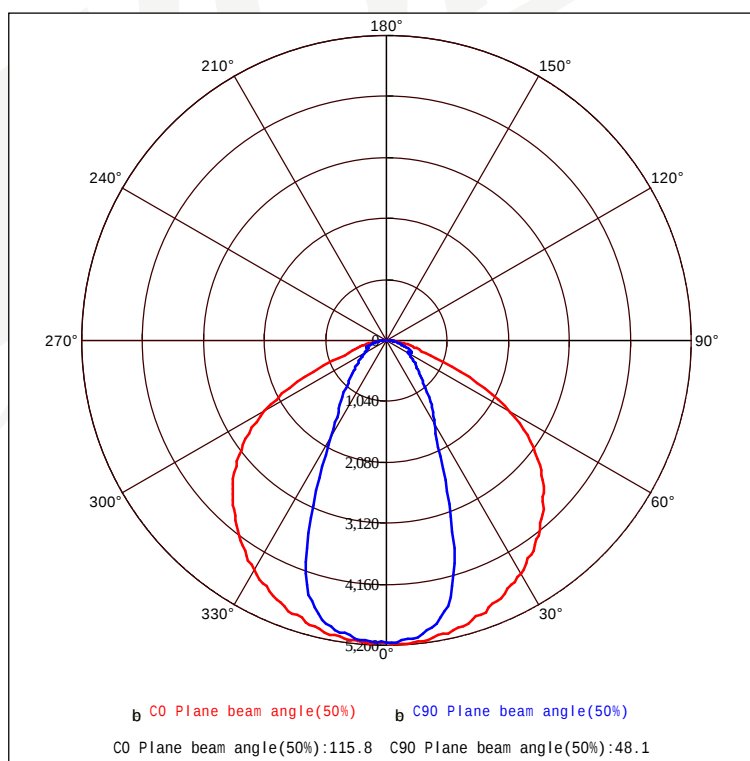


Goniophotometer Test Report

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-100M01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-100M01		Peak Value(cd)	5209.5	Efficiency(lm/w)	99.4
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	9830.66	Down(C0-C180)	51.2
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)	48.8

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

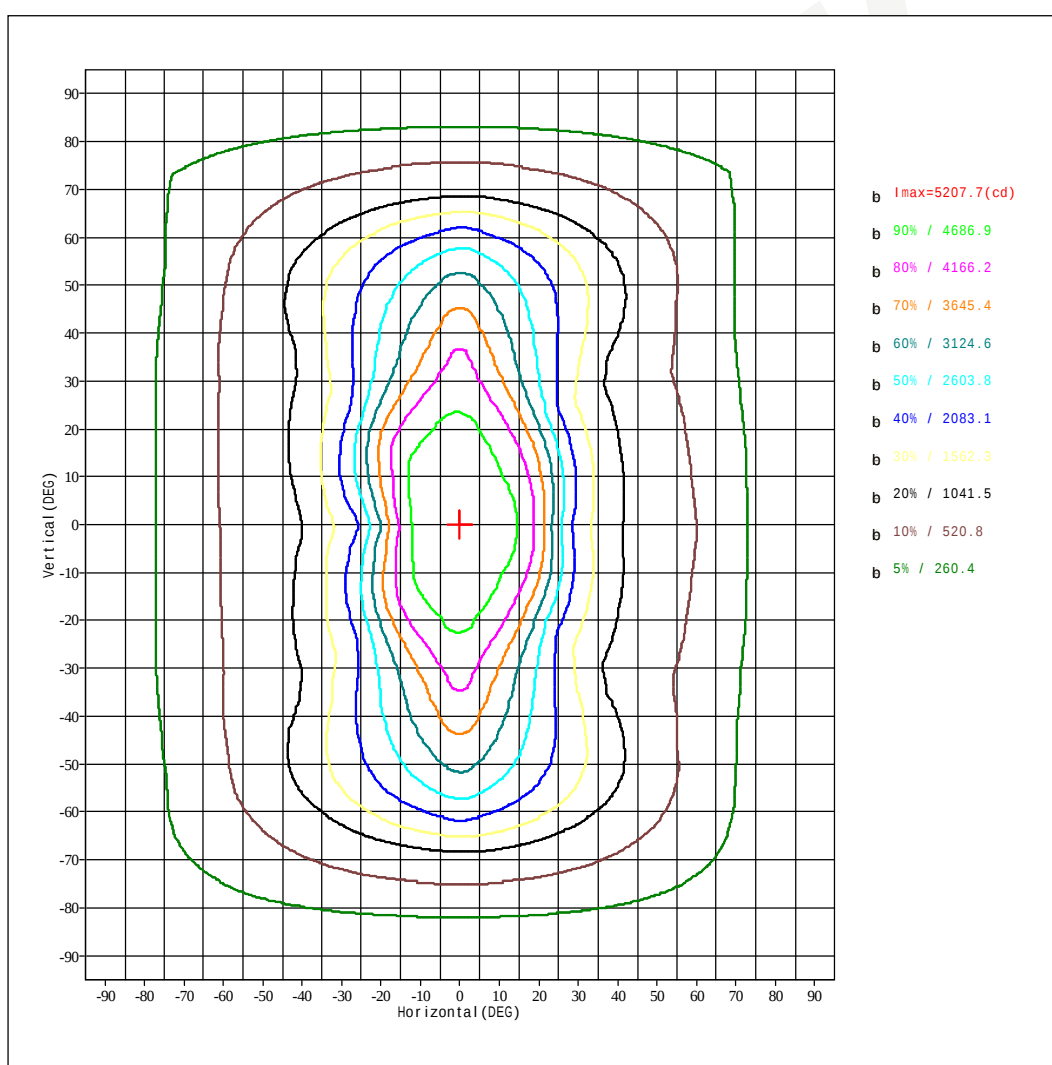
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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

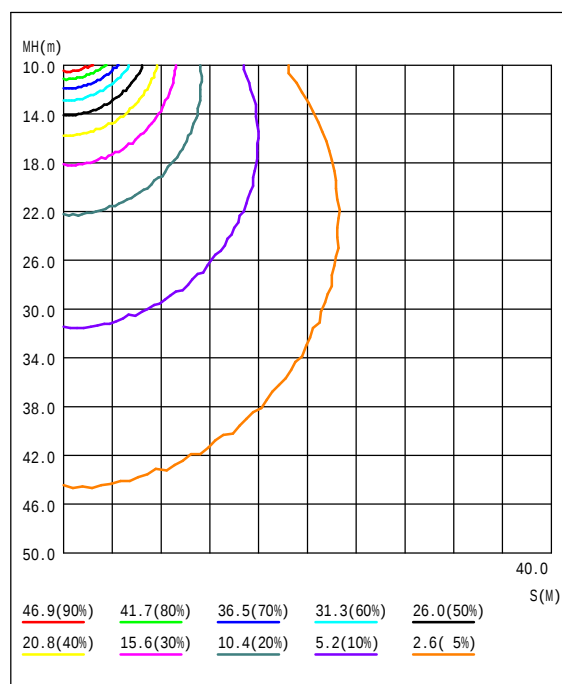
Humidity(%): 60

Date: 2023-10-24

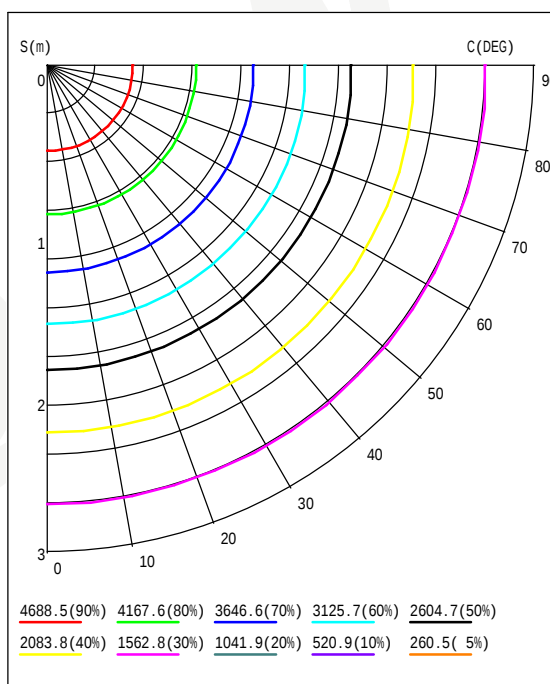
Remark:

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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

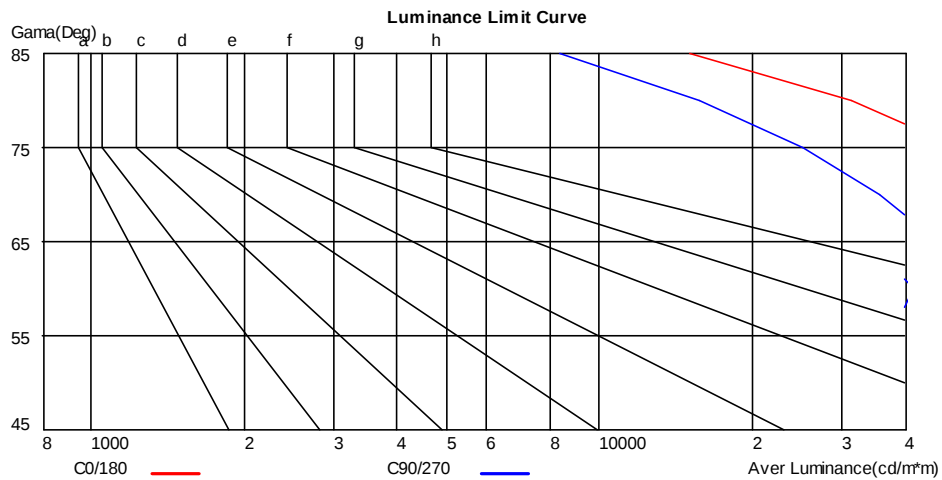
Remark:

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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	376025.9	341807.2	295087.9	235913.7	162799.8	83494.3	51270.0	31511.5	15069.9
C90	78500.8	63964.7	51212.0	41610.4	46097.6	35662.2	25164.4	15787.2	8391.0

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

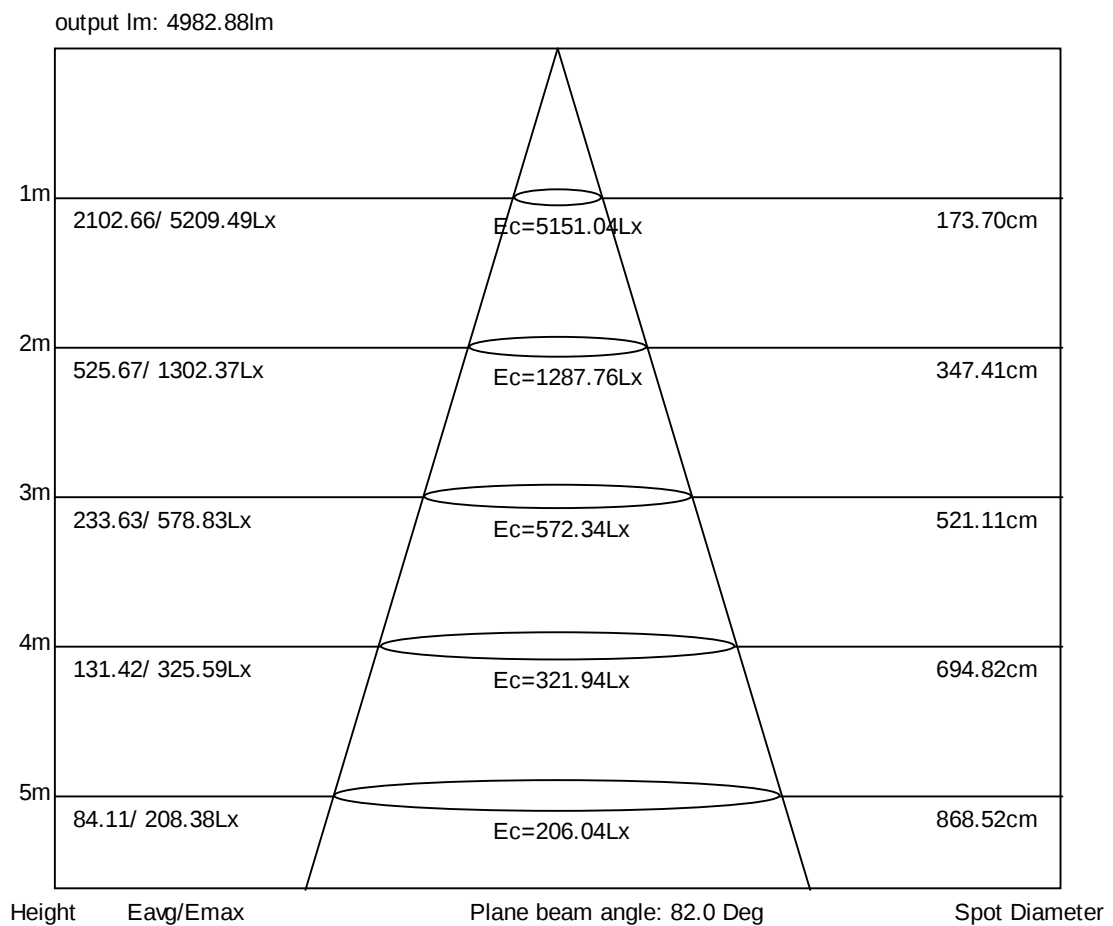
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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

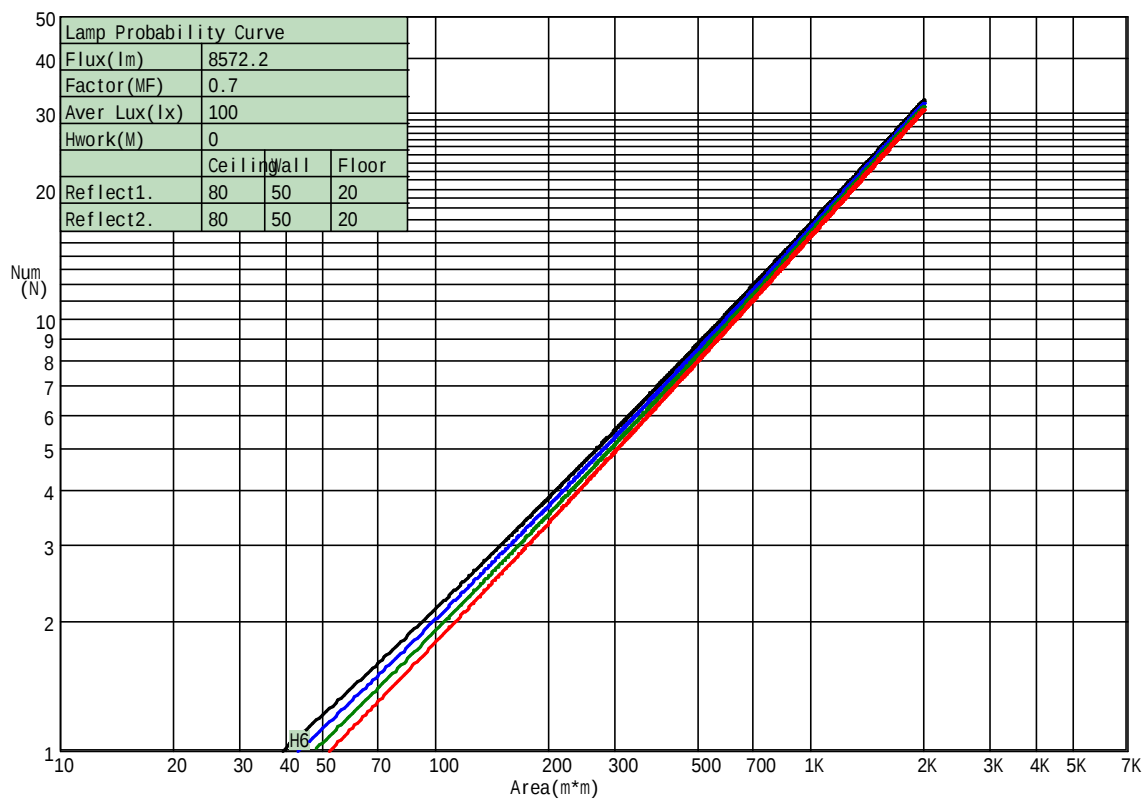
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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	54	44	65	53	44	62	51	43
1.00	70	55	45	67	54	44	63	52	43
1.25	71	56	44	69	54	44	64	52	42
1.50	72	56	44	69	54	43	64	51	41
2.00	73	56	43	70	54	42	64	50	40
2.50	73	56	41	70	53	40	62	49	37
3.00	74	55	40	69	53	38	62	48	35
4.00	74	55	38	69	52	36	61	46	33
5.00	74	55	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	1.02	0.99	1.04	1	0.97	1	0.97	0.94	0.96	0.94	0.91	0.92	0.9	0.89
2	0.94	0.89	0.84	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.8	0.77
3	0.85	0.77	0.72	0.83	0.76	0.71	0.8	0.75	0.7	0.78	0.73	0.69	0.75	0.71	0.68
4	0.76	0.69	0.63	0.75	0.68	0.62	0.73	0.66	0.61	0.7	0.65	0.61	0.68	0.64	0.6
5	0.69	0.61	0.55	0.68	0.61	0.55	0.66	0.6	0.55	0.64	0.59	0.54	0.63	0.58	0.53
6	0.63	0.55	0.5	0.62	0.55	0.49	0.61	0.54	0.49	0.59	0.53	0.49	0.58	0.52	0.48
7	0.58	0.5	0.45	0.57	0.5	0.45	0.56	0.49	0.44	0.55	0.49	0.44	0.53	0.48	0.44
8	0.54	0.46	0.41	0.53	0.46	0.41	0.52	0.45	0.4	0.51	0.45	0.4	0.5	0.44	0.4
9	0.5	0.42	0.37	0.49	0.42	0.37	0.48	0.42	0.37	0.47	0.41	0.37	0.46	0.41	0.37
10	0.47	0.39	0.34	0.46	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.43	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: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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	0.22	0.13	0.04
2	0.25	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.22	0.13	0.04	0.22	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	0.11	0.03	0.22	0.11	0.03	0.21	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	0.19	0.1	0.03	0.18	0.1	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	0.03	0.18	0.09	0.03	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	0.17	0.08	0.02	0.16	0.08	0.02	0.16	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	0.14	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	0.13	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: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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	5176	5107	5099	5125	5117	5107	5149	4981	0-5	123	123
10	5074	5089	4890	5009	5111	4947	4995	4915	5-10	362	484
15	5066	4941	4233	4764	5043	4674	4691	4736	10-15	580	1065
20	4911	4595	3101	4422	4870	4222	3918	4323	15-20	749	1813
25	4725	4045	2097	3722	4682	3427	2706	3638	20-25	833	2646
30	4598	3195	1602	2753	4484	2486	1817	2682	25-30	829	3475
35	4321	2274	1313	1991	4254	1760	1382	1884	30-35	782	4256
40	4057	1658	981	1561	4001	1342	1042	1371	35-40	729	4985
45	3760	1350	785	1268	3674	1000	827	1005	40-45	685	5670
50	3418	1011	640	961	3305	784	661	792	45-50	636	6306
55	2951	804	512	765	2894	630	523	619	50-55	577	6883
60	2359	652	416	611	2338	498	427	480	55-60	505	7388
65	1628	518	461	488	1600	379	336	373	60-65	413	7801
70	835	401	357	382	807	287	360	275	65-70	297	8098
75	513	331	252	316	486	222	283	207	70-75	202	8300
80	315	240	158	220	287	143	198	137	75-80	144	8444
85	151	154	83.9	137	131	65.3	126	57	80-85	86.4	8531
90	78.9	78.1	57.2	64.3	41.5	35.1	30.5	34	85-90	41.4	8572
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: 216.1V I: 461.8mA P: 98.90W PF: 0.991 Test LM: 9830.66lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100M01	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	5176	5146	5114	5104	5101	5105	5116	5124	5120	5117	5113	5108	5121	5140	5112	5036	5002	5091
10.0	5074	5081	5088	5024	4933	4916	4970	5020	5066	5111	5039	4965	4963	4985	4977	4941	4932	5004
15.0	5066	5011	4955	4709	4388	4349	4590	4795	4921	5043	4882	4715	4680	4687	4701	4721	4773	4922
20.0	4911	4773	4630	4105	3428	3390	3988	4471	4674	4870	4587	4293	4122	3984	4006	4190	4388	4654
25.0	4725	4427	4119	3406	2523	2452	3189	3827	4262	4682	4133	3564	3190	2863	2910	3332	3757	4249
30.0	4598	3984	3348	2672	1951	1854	2376	2943	3727	4484	3610	2705	2267	1963	2006	2398	2891	3760
35.0	4321	3426	2498	1959	1523	1462	1769	2239	3264	4254	3163	2033	1636	1464	1491	1719	2150	3255
40.0	4057	3007	1920	1436	1129	1108	1371	1828	2934	4001	2838	1632	1243	1108	1114	1263	1665	2882
45.0	3760	2706	1613	1164	909	891	1109	1531	2621	3674	2504	1293	943	865	866	946	1306	2555
50.0	3418	2365	1274	889	721	710	855	1217	2279	3305	2202	1059	743	688	690	749	1079	2269
55.0	2951	2012	1039	708	576	567	682	998	1963	2894	1904	877	595	546	544	587	874	1931
60.0	2359	1612	839	575	468	459	547	800	1582	2338	1533	699	474	442	438	463	686	1537
65.0	1628	1142	639	499	473	467	479	609	1113	1600	1066	513	365	346	344	361	510	1079
70.0	835	645	449	387	366	362	374	429	621	807	580	344	311	344	341	303	336	590
75.0	513	433	351	305	269	266	295	334	411	486	370	251	242	270	266	232	240	379
80.0	315	282	248	213	176	171	200	227	258	287	224	158	161	186	184	157	156	237
85.0	151	152	154	131	99.3	95.5	120	136	134	131	102	72.5	85.2	113	111	79.6	67.3	110
90.0	78.9	78.5	78.2	71.3	61.8	58.8	62	61.8	51.5	41.5	38.7	35.8	33.6	31.5	31.2	32.8	38.9	59.2
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: