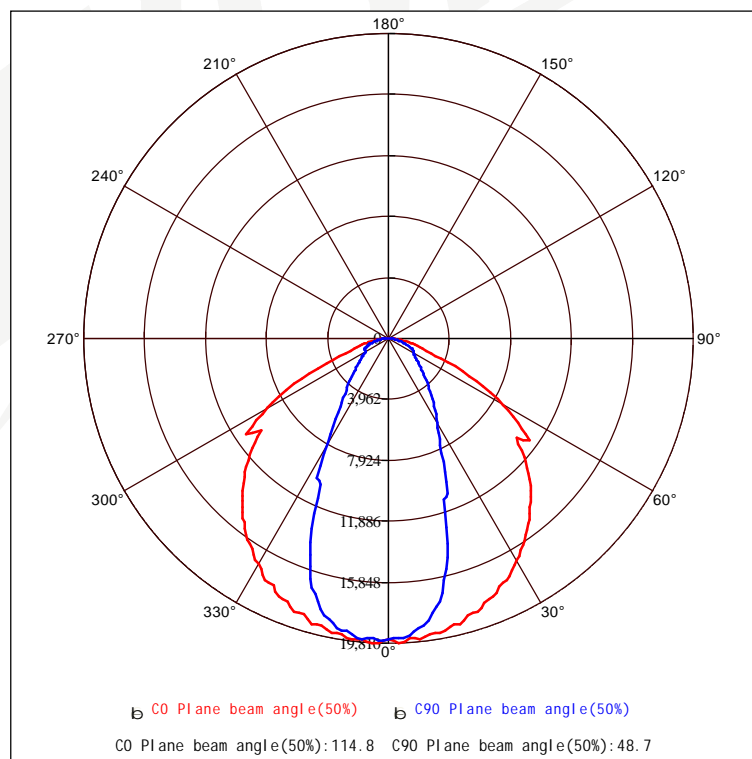


Goniophotometer Test Report

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-400M01		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-400M01		Peak Value(cd)	19859.7	Efficiency(lm/w)	99.45
Nominal P(w)	1.0		Position	45.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0		Total Flux(lm)	39561.21	Down(C0-C180)	50.9
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)	49.1

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

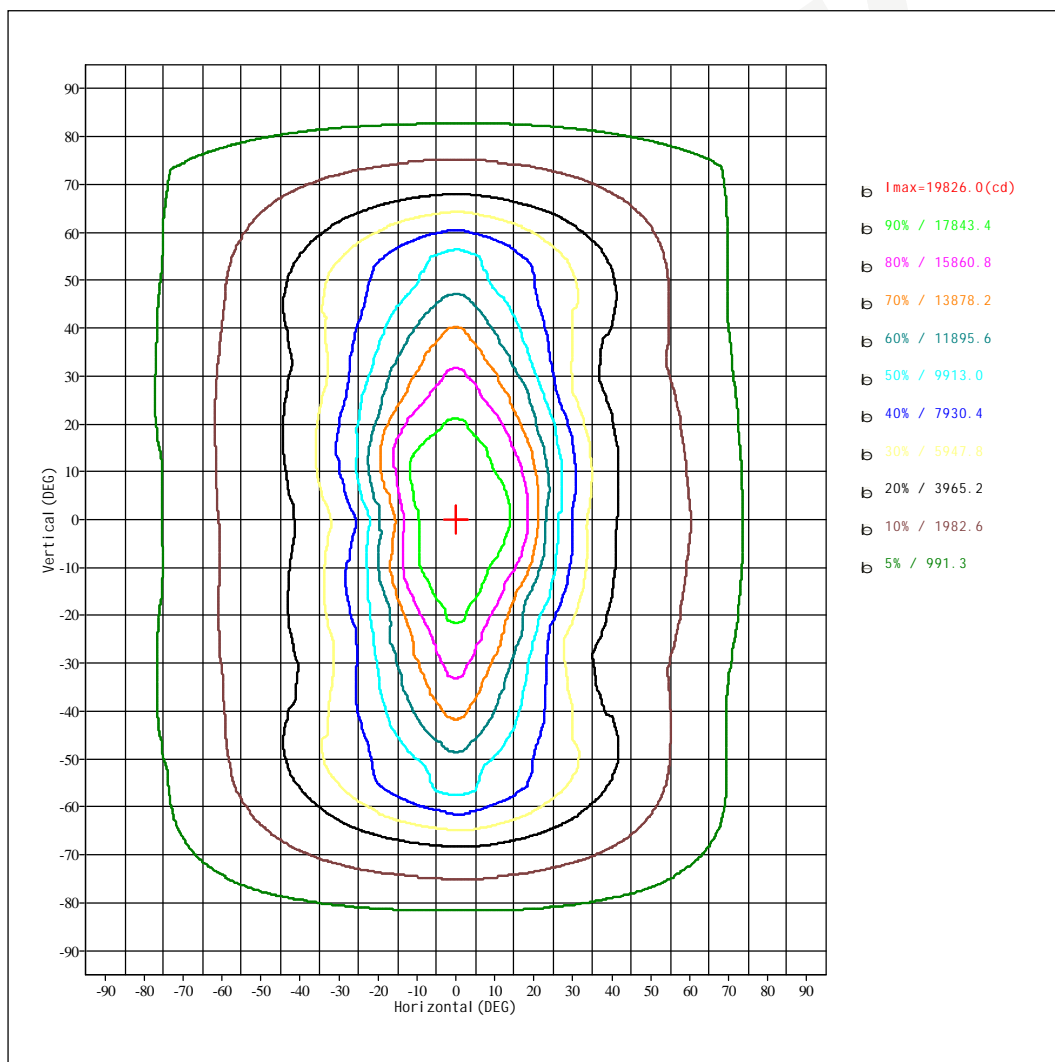
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

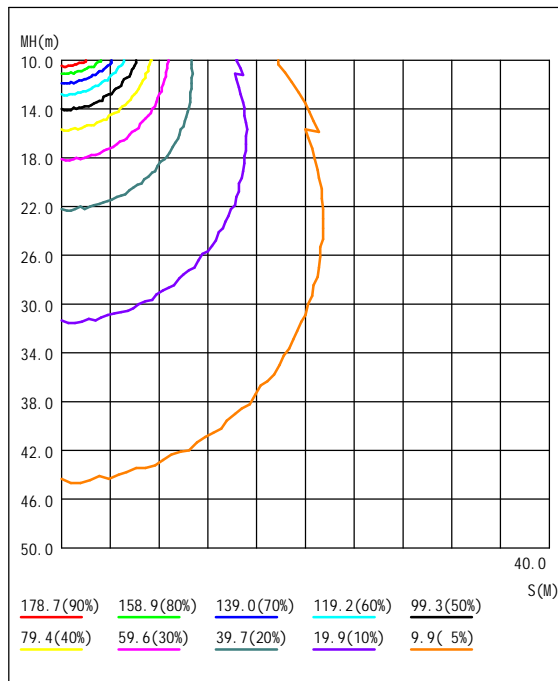
Humi di ty(%): 60

Date: 2023-10-24

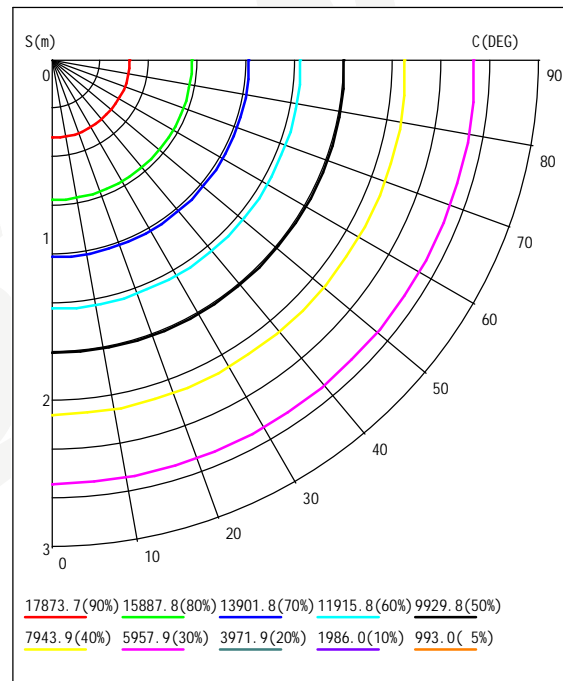
Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	Lamp Spec:	Shape Si ze:
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

Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

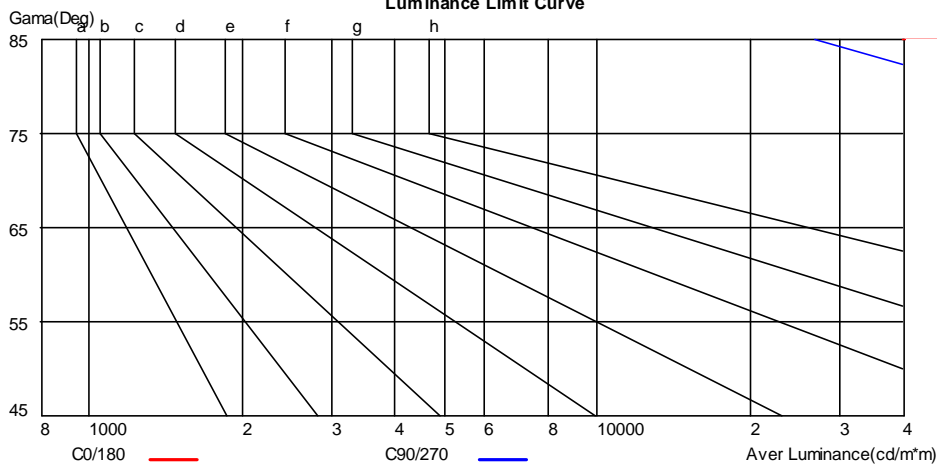
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	1280830.1	1109651.3	1064086.5	841102.9	553998.6	305699.7	188340.1	104154.0	47321.2
C90	313883.7	255788.2	206191.2	184652.7	170938.4	130289.6	86919.2	57128.7	26890.4

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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

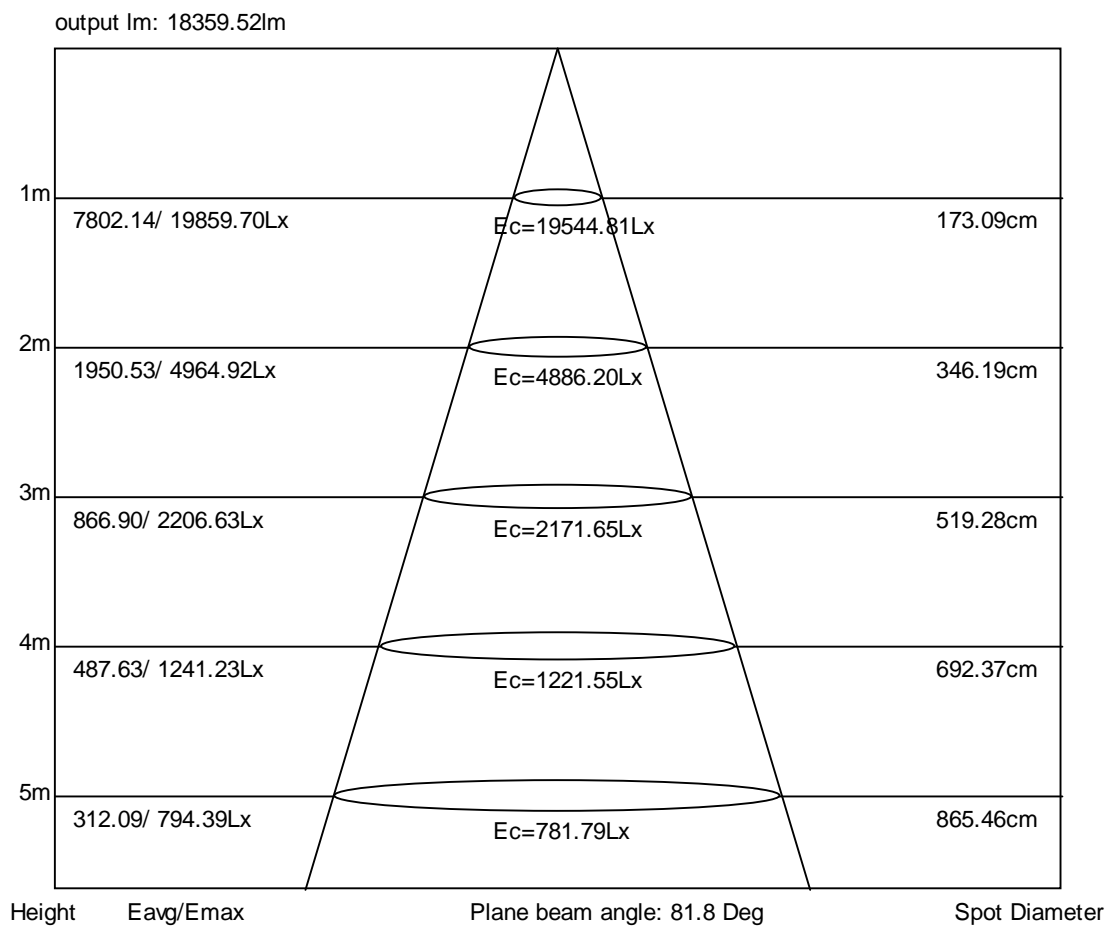
Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

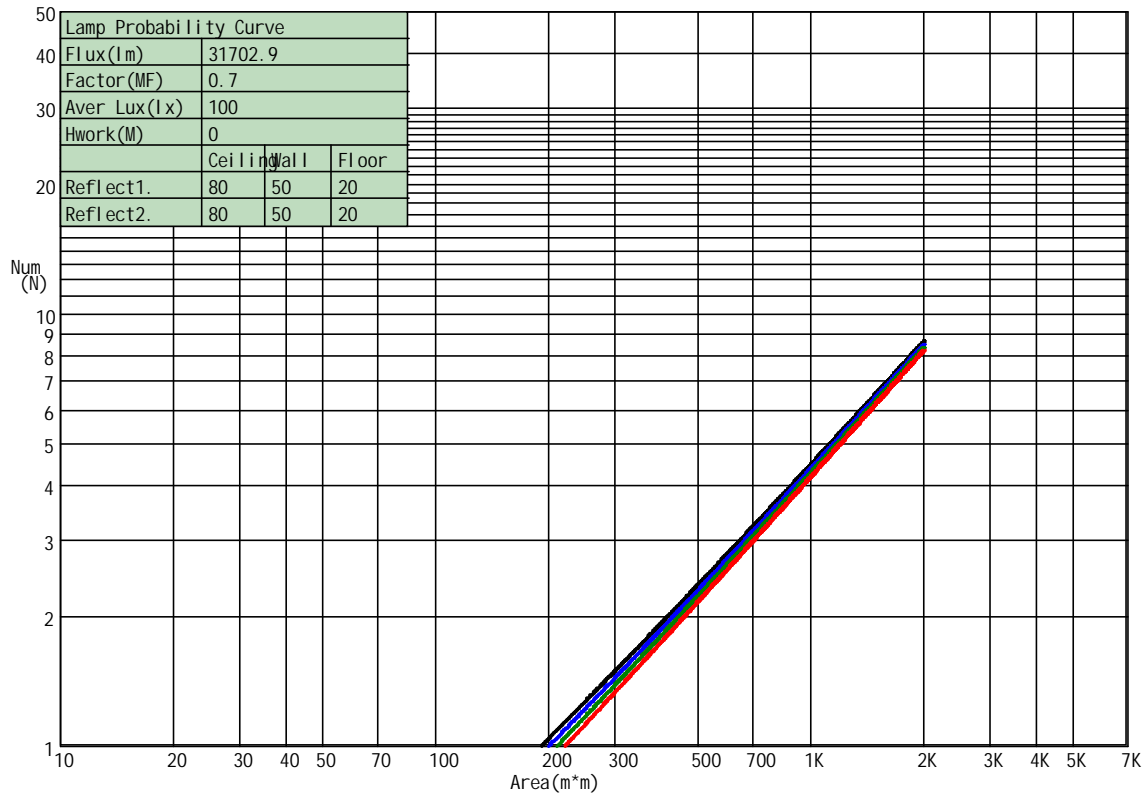
Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	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

Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	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	62	50	42	61	49	41	58	48	41
0.80	66	52	42	64	51	42	60	49	41
1.00	68	54	43	66	52	43	62	50	41
1.25	70	55	43	68	53	42	62	50	41
1.50	71	55	42	68	53	42	63	50	40
2.00	73	55	42	69	53	41	63	49	38
2.50	73	55	40	69	52	39	62	48	36
3.00	73	55	39	69	52	37	61	47	35
4.00	73	54	37	69	51	36	61	46	33
5.00	74	54	36	69	51	35	60	45	31

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	1.01	0.97	1	0.97	0.94	0.96	0.94	0.92	0.92	0.91	0.89
2	0.95	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	0.57	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	0.48	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

Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-400M01	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	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05	0.23	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 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	0.14	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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: WH

Date: 2023-10-24

Distance(m): 7.070

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-400M01	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	19743	19587	19014	19169	19553	19476	19651	19310	0-5	466	466
10	19422	19378	17589	18644	19573	18731	19086	18576	5-10	1368	1835
15	18775	18454	14340	17360	19159	17151	17487	17710	10-15	2162	3997
20	18226	16884	11248	14788	18347	14763	14569	16363	15-20	2728	6726
25	17564	14316	7939	11276	17584	11437	9944	13898	20-25	3003	9728
30	16563	10659	6183	9637	16903	9353	7603	11588	25-30	3041	12769
35	15541	8889	5003	7467	15935	6437	5281	8063	30-35	2952	15721
40	14121	6696	3935	5928	14583	4637	4034	5465	35-40	2736	18456
45	12808	5221	3139	4715	13090	3622	3152	4004	40-45	2522	20978
50	11097	4115	2558	3771	11588	2840	2516	3053	45-50	2302	23280
55	10641	3238	2062	3068	11498	2262	2033	2365	50-55	2095	25375
60	8411	2606	1847	2442	8823	1793	1726	1854	55-60	1919	27294
65	5540	2038	1709	1939	5951	1458	1690	1452	60-65	1557	28850
70	3057	1601	1303	1562	3166	1078	1439	1084	65-70	1132	29982
75	1883	1253	869	1088	1853	754	1062	747	70-75	766	30748
80	1042	827	571	763	1015	437	753	465	75-80	515	31263
85	473	504	269	445	417	186	465	226	80-85	297	31560
90	285	247	179	209	156	139	126	134	85-90	143	31703
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

Humi di ty(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 215.8V I: 1893.9mA P: 397.80W PF: 0.989 Test LM: 39561.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-400M01	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	20k	20k	20k	19k	19k	19k	19k	19k	19k	20k	20k	19k	20k	20k	20k	19k	19k	20k
10.0	19k	19k	19k	19k	18k	18k	18k	19k	19k	20k	19k	19k	19k	19k	19k	19k	19k	19k
15.0	19k	19k	18k	17k	15k	15k	16k	18k	18k	19k	18k	17k	17k	17k	18k	18k	18k	18k
20.0	18k	18k	17k	15k	12k	12k	14k	15k	17k	18k	17k	15k	15k	15k	15k	16k	17k	17k
25.0	18k	16k	15k	12k	9334	8669	10k	12k	15k	18k	15k	12k	11k	10k	11k	13k	14k	16k
30.0	17k	14k	11k	9190	7162	6938	8504	10k	14k	17k	14k	10k	8779	7986	8475	10k	12k	14k
35.0	16k	13k	9617	7614	5853	5542	6658	8393	12k	16k	12k	7476	6057	5534	5890	7150	8881	12k
40.0	14k	11k	7508	5790	4539	4371	5274	6875	11k	15k	10k	5725	4439	4166	4347	4995	6412	10k
45.0	13k	9489	6051	4538	3594	3484	4198	5631	9426	13k	8948	4658	3468	3255	3338	3724	4967	8956
50.0	11k	8042	4878	3604	2898	2823	3373	4626	8168	12k	7760	3797	2733	2587	2633	2877	3933	7578
55.0	11k	7402	4048	2852	2319	2282	2738	3990	7810	11k	7457	3272	2187	2083	2106	2256	3270	7020
60.0	8411	5871	3241	2356	2013	1977	2247	3140	6031	8823	5748	2562	1771	1740	1754	1812	2571	5542
65.0	5540	4008	2421	1930	1781	1760	1863	2378	4196	5951	3985	1949	1534	1639	1638	1530	1899	3752
70.0	3057	2420	1760	1503	1368	1360	1477	1738	2464	3166	2252	1306	1196	1360	1361	1200	1299	2194
75.0	1883	1608	1322	1127	953	917	1016	1172	1518	1853	1372	874	855	995	993	851	872	1386
80.0	1042	948	850	743	627	613	700	790	905	1015	762	500	541	684	690	559	528	789
85.0	473	487	501	427	320	307	387	442	429	417	316	211	278	404	413	305	253	365
90.0	285	268	251	225	194	186	199	204	179	156	149	141	135	129	128	131	150	219
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: WH

Date: 2023-10-24

Distance(m): 7.070

Remark:

Test System: ZWL Goniophotometer System V3.0