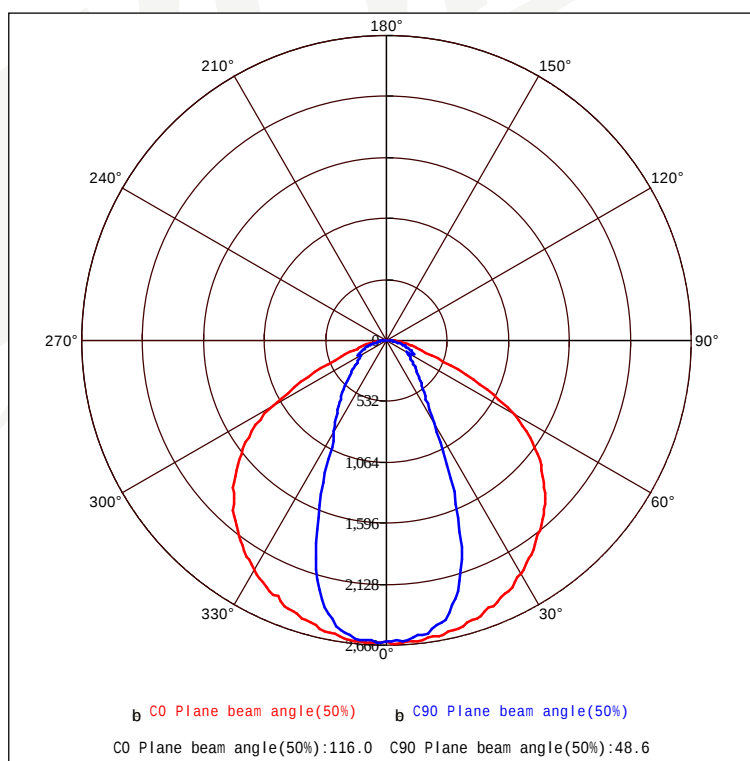


Goniophotometer Test Report

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-50M01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-50M01		Peak Value(cd)	2664.9	Efficiency(lm/w)	97.9
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	4880.32	Down(C0-C180)	52.5
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)	47.5

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

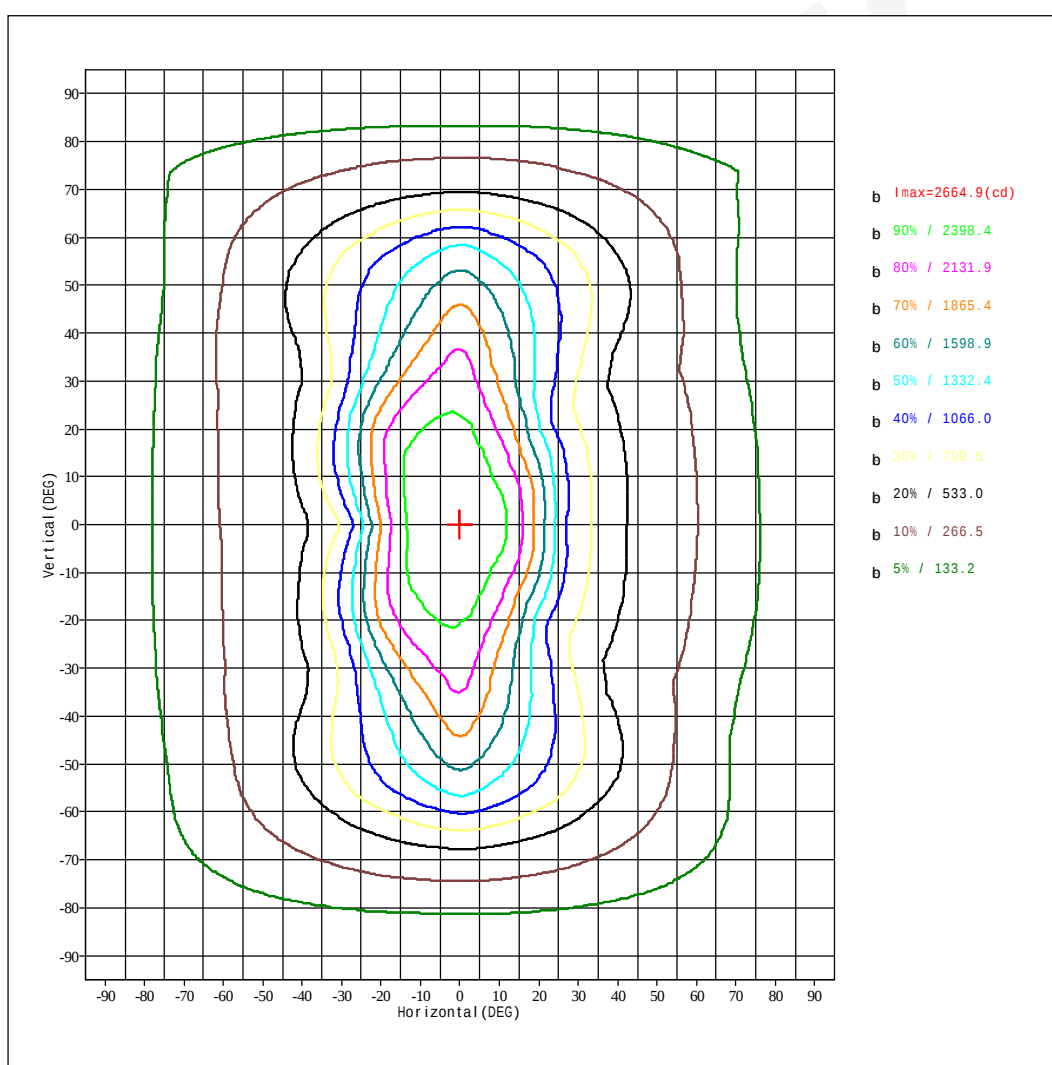
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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

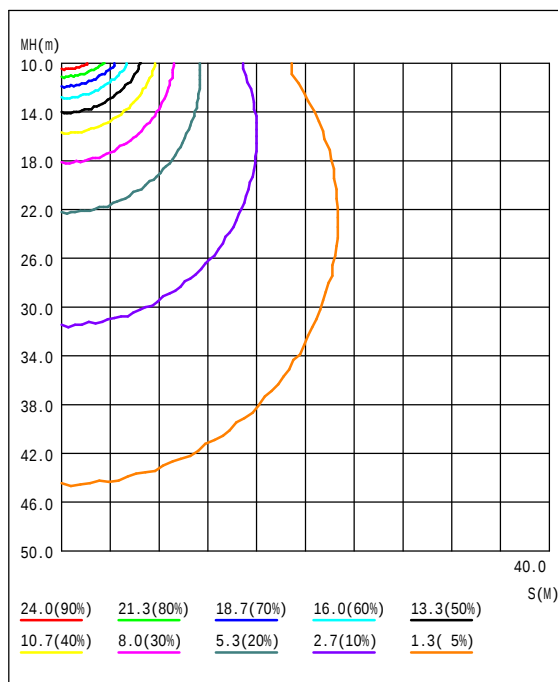
Humidity(%): 60

Date: 2023-10-24

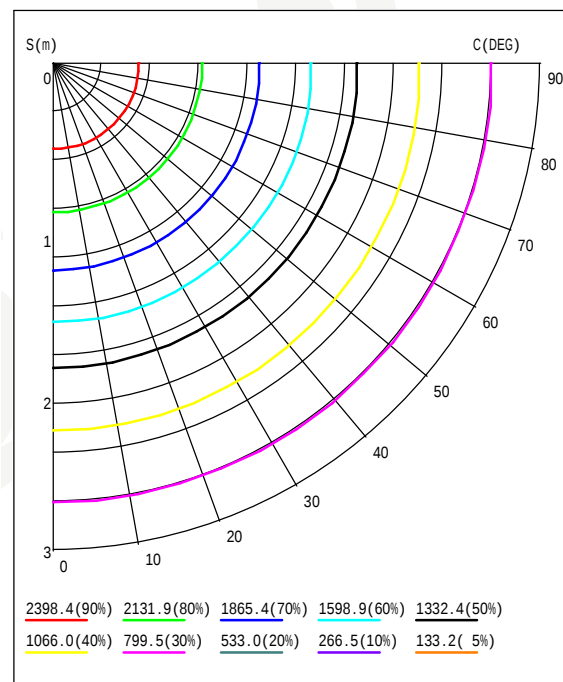
Remark:

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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

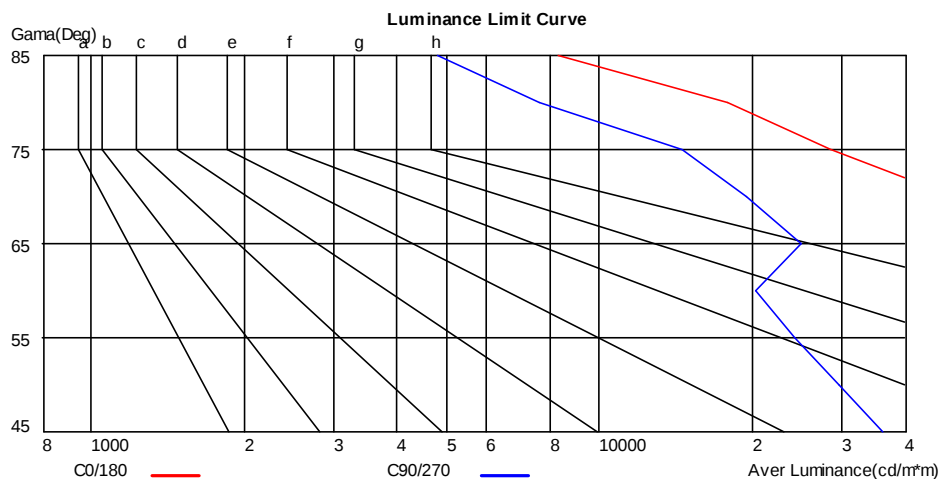
Remark:

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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	193601.0	175794.9	153581.6	126827.2	86099.0	49961.4	28544.4	17880.6	8327.0
C90	36092.6	29642.5	24290.2	20350.4	25016.4	19476.1	14532.1	7618.7	4790.6

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

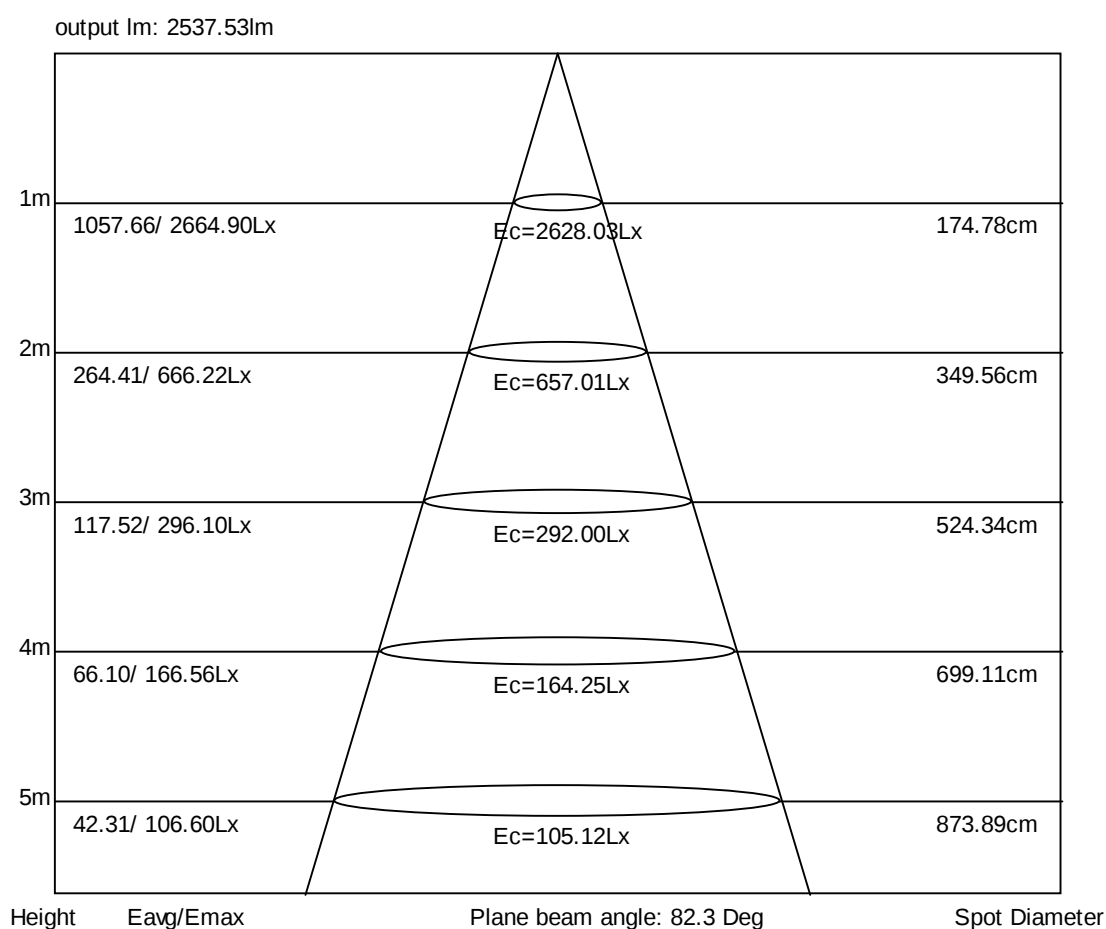
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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

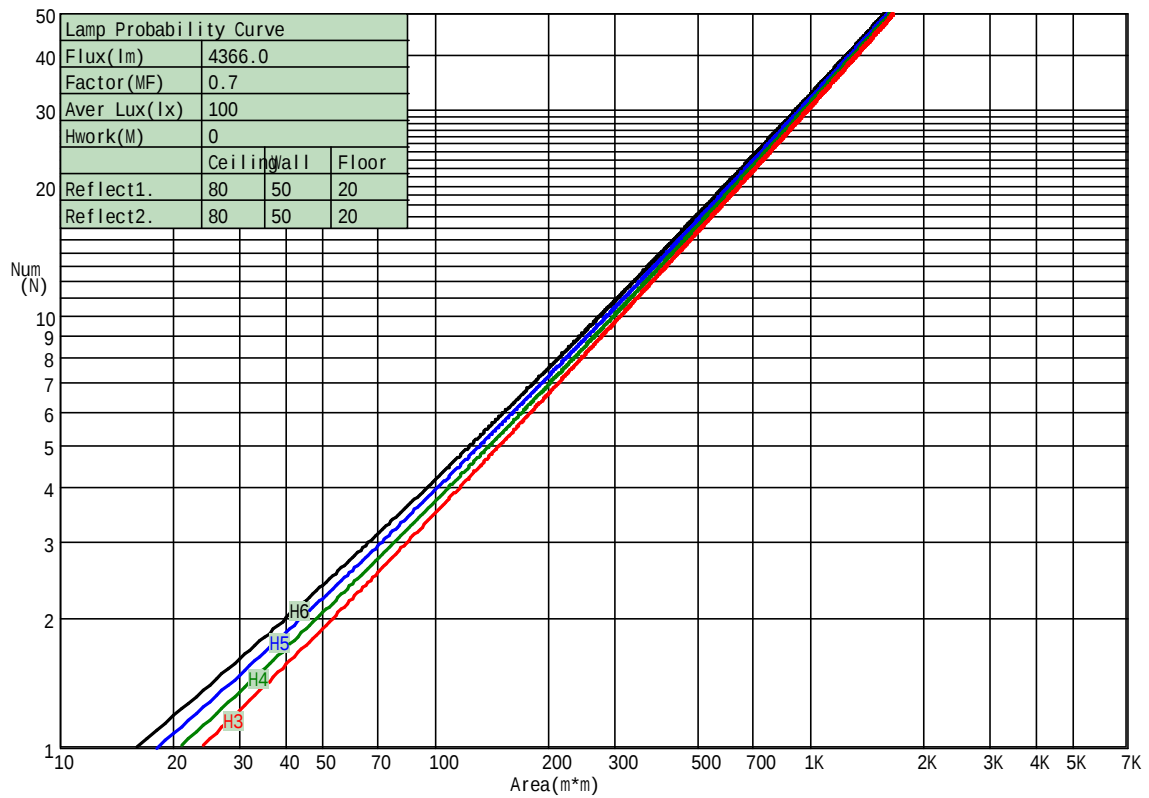
Humidity(%): 60

Date: 2023-10-24

Remark:

Measured Para U: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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	51	44	63	51	43	60	50	43
0.80	68	54	45	66	53	44	62	51	43
1.00	70	55	45	68	54	45	63	52	44
1.25	72	56	45	69	55	44	64	52	43
1.50	73	57	44	70	55	43	64	52	42
2.00	74	57	43	70	55	42	64	51	40
2.50	74	56	41	70	54	40	63	49	38
3.00	74	56	40	70	53	39	62	48	36
4.00	74	55	38	70	52	37	61	47	34
5.00	74	55	37	69	52	36	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	0.54	0.64	0.58	0.54	0.63	0.57	0.53
6	0.63	0.55	0.49	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	0.44	0.56	0.49	0.44	0.55	0.48	0.44	0.53	0.48	0.44
8	0.54	0.46	0.41	0.53	0.46	0.4	0.52	0.45	0.4	0.51	0.44	0.4	0.49	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	0.46	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: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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	0.23	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	0.21	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: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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	2642	2623	2581	2593	2631	2594	2636	2585	0-5	62.6	62.6
10	2635	2601	2517	2565	2601	2478	2499	2488	5-10	185	247
15	2575	2562	2322	2474	2549	2252	2210	2308	10-15	294	541
20	2494	2413	1854	2347	2487	1888	1712	1982	15-20	376	917
25	2434	2209	1282	2115	2408	1457	1233	1561	20-25	417	1334
30	2348	1881	808	1701	2292	1024	893	1116	25-30	420	1755
35	2221	1396	570	1255	2173	814	724	855	30-35	403	2158
40	2084	963	449	842	2032	656	581	685	35-40	380	2538
45	1936	652	361	571	1870	518	454	548	40-45	350	2888
50	1758	486	296	455	1677	404	361	434	45-50	321	3210
55	1536	385	243	358	1445	320	288	341	50-55	293	3502
60	1268	310	204	288	1078	255	270	265	55-60	256	3759
65	861	250	250	233	719	207	242	214	60-65	211	3970
70	500	201	195	185	400	145	187	167	65-70	156	4126
75	285	187	145	169	237	88.4	132	101	70-75	106	4231
80	179	136	76.2	119	138	46.1	79.4	57	75-80	72.3	4304
85	83.3	84	47.9	65.9	51.2	19.3	46.9	25.1	80-85	41.3	4345
90	49.6	45.1	35.7	32.2	21.3	18.3	15	16.7	85-90	20.9	4366
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: 216.0V I: 232.9mA P: 49.85W PF: 0.991 Test LM: 4880.32lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50M01	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	2642	2634	2625	2609	2590	2584	2589	2597	2614	2631	2615	2598	2608	2627	2625	2602	2592	2617
10.0	2635	2620	2605	2574	2536	2528	2549	2569	2586	2601	2548	2492	2485	2494	2496	2492	2504	2571
15.0	2575	2569	2563	2483	2374	2355	2424	2482	2516	2549	2419	2284	2238	2219	2232	2276	2337	2458
20.0	2494	2459	2422	2229	1976	1962	2185	2363	2426	2487	2225	1954	1830	1750	1771	1894	2038	2270
25.0	2434	2335	2233	1904	1484	1464	1842	2147	2280	2408	1992	1561	1384	1282	1305	1453	1656	2052
30.0	2348	2144	1932	1529	1043	1003	1408	1766	2033	2292	1737	1162	981	921	942	1043	1251	1809
35.0	2221	1860	1487	1125	750	720	1030	1355	1771	2173	1578	962	784	744	753	812	1005	1624
40.0	2084	1594	1085	794	562	535	713	972	1511	2032	1430	807	632	598	604	651	838	1472
45.0	1936	1374	793	557	425	407	502	713	1302	1870	1279	666	497	468	474	517	700	1329
50.0	1758	1201	625	424	338	331	403	589	1143	1677	1120	543	390	370	377	410	579	1179
55.0	1536	1032	511	338	274	268	320	477	969	1445	953	443	310	295	300	324	471	1013
60.0	1268	849	414	275	227	222	260	374	732	1078	718	345	260	267	269	267	375	830
65.0	861	594	317	250	250	246	239	286	506	719	495	263	219	235	236	223	285	578
70.0	500	369	233	199	196	193	188	209	306	400	289	173	159	178	183	173	203	354
75.0	285	242	198	173	154	150	161	176	207	237	172	105	103	122	125	111	121	205
80.0	179	160	140	116	89.2	85.6	105	121	129	138	97.6	56.1	57	72.1	74.5	64.4	70.3	126
85.0	83.3	83.6	83.9	72.1	55.8	51.8	60	64.3	57.6	51.2	37.3	22.8	28.4	40.9	42.2	32.3	31.5	57.8
90.0	49.6	47.6	45.6	42	37.8	34.9	33.3	31	26.1	21.3	20	18.7	17.3	15.7	15.4	16.1	20.3	35.2
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: