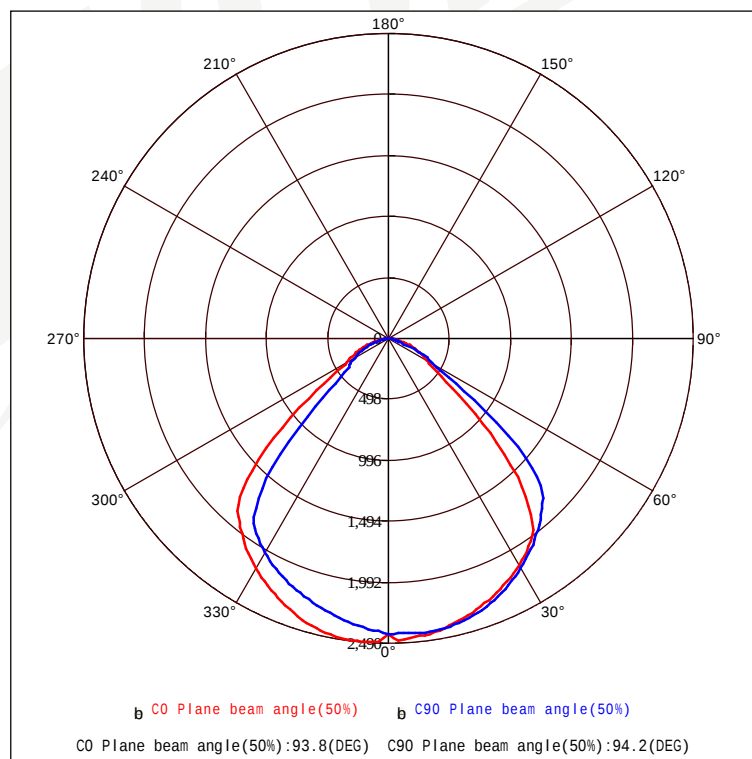


Goniophotometer Test Report

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-50B02			Lamp Spec: LPFL-50B02		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-50B02		Peak Value(cd)	2486.9	Efficiency(lm/w)	107.6
Nominal P(w)		1.0	Position	180.0,6.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	5121.461	Down(C0-C180)	54.5
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)	45.5

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

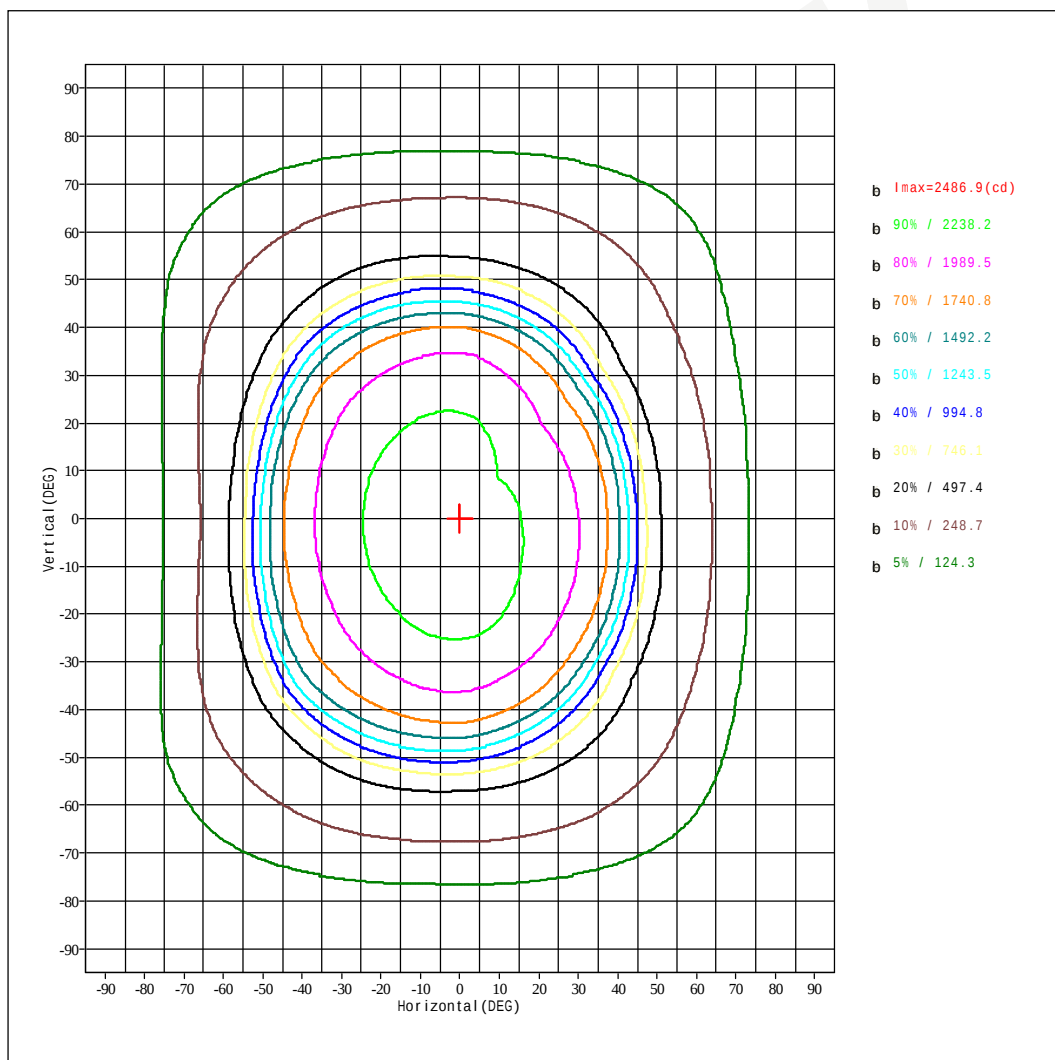
Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

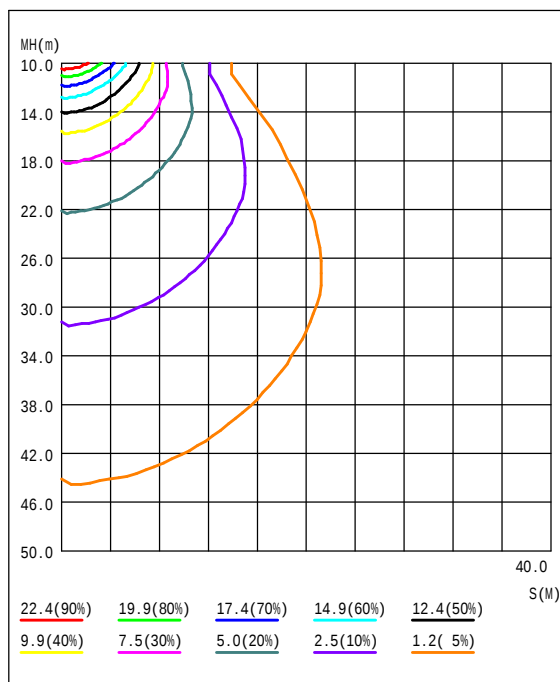
Humidity(%): 60

Date: 2026-1-25

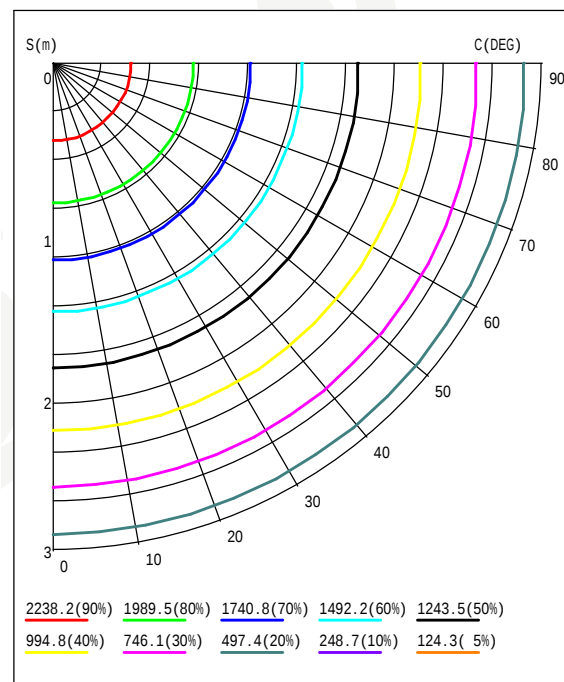
Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spatial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

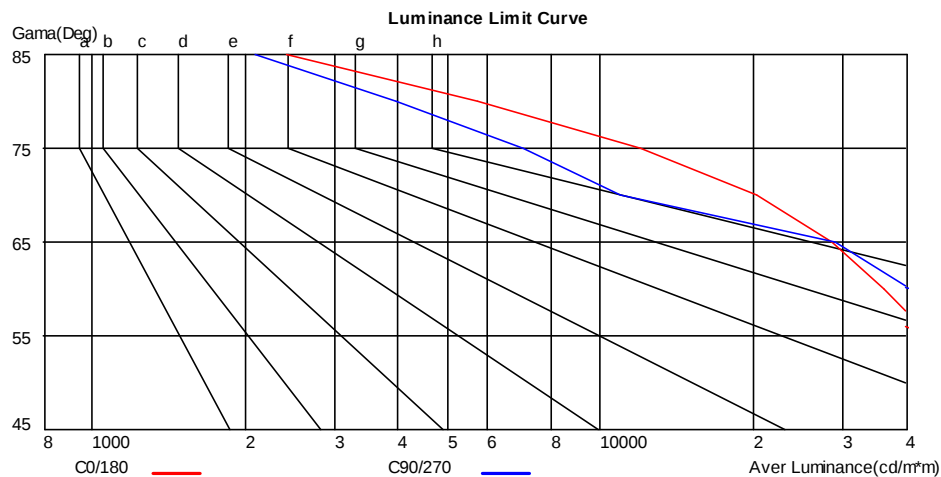
Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	127821.4	77977.1	44919.8	36167.9	28614.0	20342.8	12044.2	5755.5	2414.2
C90	175844.3	132739.5	71061.3	40781.7	29021.7	10994.1	7071.7	3976.4	2091.3

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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

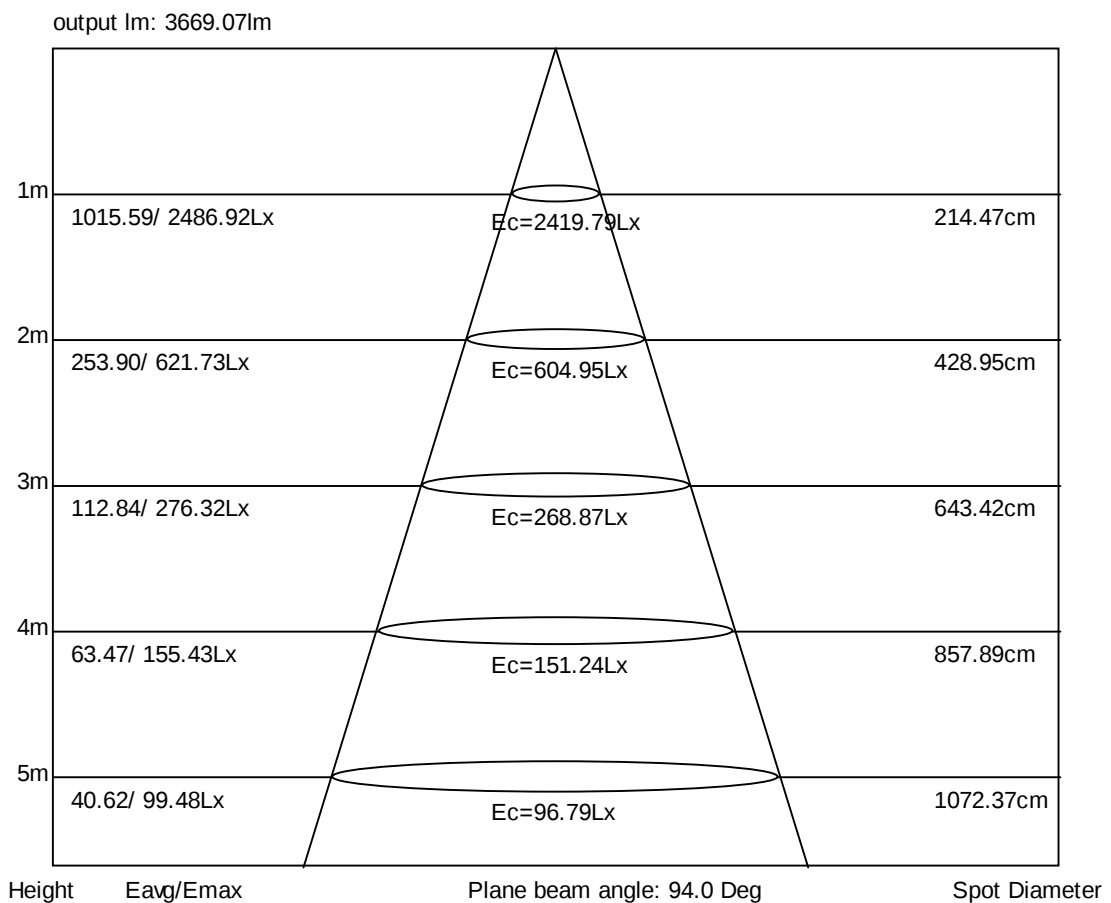
Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

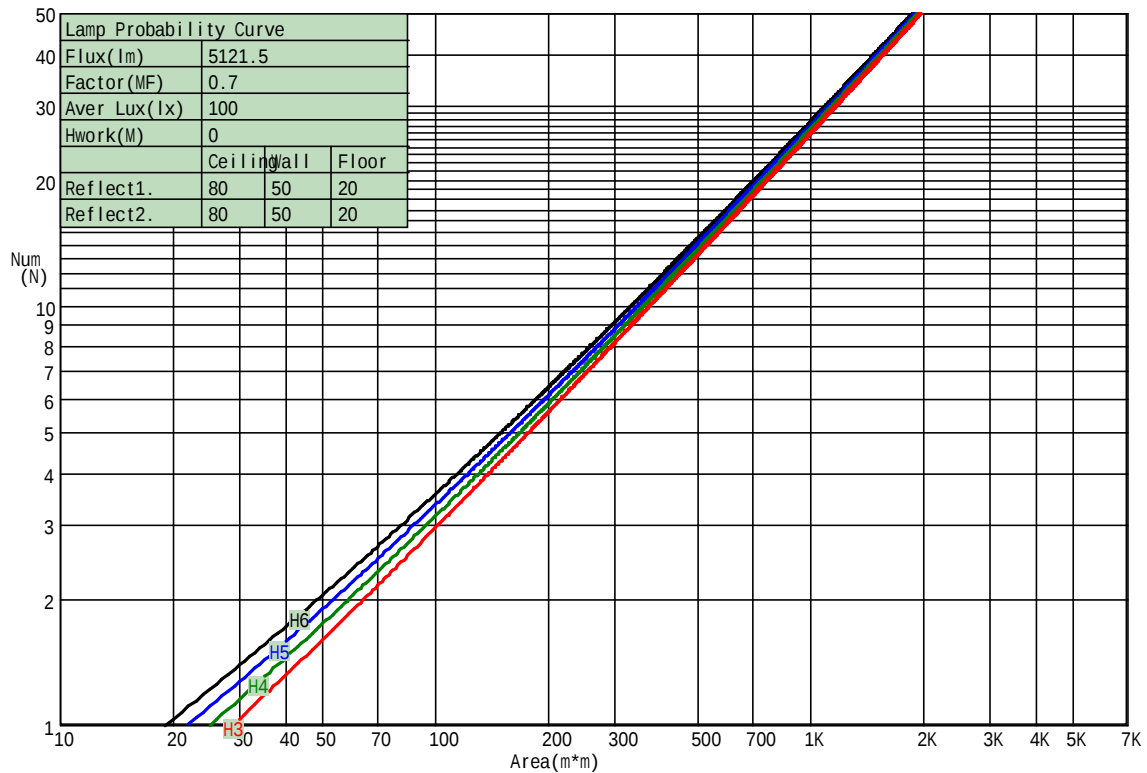
Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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	59	45	37	57	44	36	54	43	36
0.80	60	45	35	58	44	34	55	42	33
1.00	62	46	34	60	44	33	55	42	32
1.25	64	46	33	61	44	32	55	41	31
1.50	65	47	32	62	45	32	56	41	30
2.00	67	48	33	63	46	32	57	42	29
2.50	68	49	32	64	46	31	57	41	28
3.00	69	49	32	65	47	31	57	42	28
4.00	71	51	33	66	48	31	58	42	28
5.00	72	52	33	67	49	32	58	43	28

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	0.94	0.92	0.9
2	0.96	0.91	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	0.86	0.8	0.74	0.85	0.79	0.73	0.82	0.77	0.72	0.79	0.75	0.71	0.77	0.73	0.7
4	0.78	0.7	0.65	0.77	0.7	0.64	0.74	0.68	0.63	0.72	0.67	0.63	0.7	0.65	0.62
5	0.71	0.63	0.57	0.7	0.62	0.57	0.68	0.61	0.56	0.66	0.6	0.56	0.64	0.59	0.55
6	0.64	0.56	0.51	0.63	0.56	0.5	0.62	0.55	0.5	0.6	0.54	0.5	0.59	0.53	0.49
7	0.59	0.51	0.45	0.58	0.51	0.45	0.57	0.5	0.45	0.55	0.49	0.45	0.54	0.48	0.44
8	0.54	0.46	0.41	0.53	0.46	0.41	0.52	0.45	0.41	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	0.46	0.39	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34	0.43	0.37	0.33

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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	0.25	0.14	0.04	0.24	0.14	0.04	0.23	0.13	0.04	0.21	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	0.23	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	0.11	0.03	0.19	0.1	0.03	0.18	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	0.17	0.09	0.03
6	0.19	0.09	0.03	0.18	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	0.17	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	0.17	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	0.14	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	0.16	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	0.04	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	0.11	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	0.08	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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	2449	2435	2422	2393	2486	2415	2366	2321	0-5	57.8	57.8
10	2416	2408	2414	2400	2473	2375	2315	2270	5-10	172	229
15	2360	2364	2384	2377	2426	2313	2250	2208	10-15	280	509
20	2294	2302	2326	2323	2351	2243	2181	2143	15-20	380	889
25	2218	2225	2249	2246	2256	2162	2103	2065	20-25	468	1357
30	2125	2136	2154	2148	2158	2060	2007	1965	25-30	542	1899
35	2011	2031	2043	2033	2032	1929	1888	1795	30-35	599	2498
40	1747	1905	1919	1905	1892	1681	1561	1444	35-40	625	3123
45	1278	1659	1758	1753	1596	1154	975	868	40-45	585	3708
50	780	1164	1327	1457	1083	628	535	490	45-50	467	4175
55	449	642	711	869	608	402	379	359	50-55	316	4491
60	362	400	408	463	383	336	317	304	55-60	206	4697
65	286	334	290	350	298	254	233	233	60-65	160	4857
70	203	253	110	269	210	158	157	143	65-70	119	4975
75	120	159	70.7	167	120	81.2	81.6	72.4	70-75	77	5052
80	57.6	80.9	39.8	87.2	54.7	31.1	32.7	27.3	75-80	41.6	5094
85	24.1	33.2	20.9	35.4	19.5	14.7	14.1	12.7	80-85	18.6	5112
90	17.2	17.5	15.6	17.3	10.7	10.5	9.57	9.36	85-90	8.99	5121
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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

Remark:

Measured Para U: 229.7V I: 339.0mA P: 47.60W PF: 0.610 Test LM: 5121.46lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50B02	Lamp Spec: LPFL-50B02	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	2449	2443	2436	2430	2425	2416	2403	2404	2446	2486	2455	2423	2399	2376	2356	2336	2335	2393
10.0	2416	2412	2409	2410	2412	2410	2404	2408	2441	2473	2430	2386	2355	2328	2305	2285	2286	2352
15.0	2360	2362	2363	2370	2379	2382	2379	2383	2405	2426	2377	2326	2293	2264	2241	2222	2225	2294
20.0	2294	2298	2301	2310	2321	2325	2324	2326	2339	2351	2304	2255	2223	2195	2173	2156	2160	2228
25.0	2218	2221	2224	2233	2244	2248	2247	2247	2252	2256	2215	2173	2143	2116	2094	2077	2081	2151
30.0	2125	2130	2135	2142	2150	2152	2150	2149	2153	2158	2115	2071	2043	2018	1998	1979	1982	2055
35.0	2011	2020	2029	2035	2040	2041	2036	2033	2033	2032	1987	1940	1916	1897	1867	1825	1818	1916
40.0	1747	1817	1888	1910	1916	1916	1909	1903	1898	1892	1800	1704	1642	1587	1535	1482	1477	1615
45.0	1278	1445	1617	1692	1737	1757	1755	1736	1665	1596	1403	1202	1095	1014	952	903	913	1099
50.0	780	948	1122	1218	1292	1356	1415	1416	1247	1083	884	678	598	555	525	505	522	653
55.0	449	533	620	664	695	745	817	841	722	608	518	424	394	384	375	366	369	410
60.0	362	378	396	402	406	420	445	454	418	383	362	341	330	321	314	308	310	336
65.0	286	307	329	320	300	303	330	344	321	298	279	259	247	238	233	233	239	263
70.0	203	225	247	206	141	145	217	262	236	210	187	164	158	157	154	147	150	177
75.0	120	137	155	130	90.1	91.7	135	161	140	120	103	85.4	81.3	81.5	79.5	75.4	77.6	99.4
80.0	57.6	67.8	78.3	67.4	48.8	50.1	71.6	83.6	68.9	54.7	44.4	33.7	31.7	32.4	31.6	29.1	30.6	44.3
85.0	24.1	28.1	32.2	29.2	23.6	24.1	30.6	33.6	26.5	19.5	17.4	15.2	14.5	14.3	13.8	13.2	14	19.2
90.0	17.2	17.3	17.5	16.9	16	15.9	16.8	16.6	13.6	10.7	10.6	10.5	10.2	9.78	9.52	9.43	10.2	13.8
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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-25

Remark: