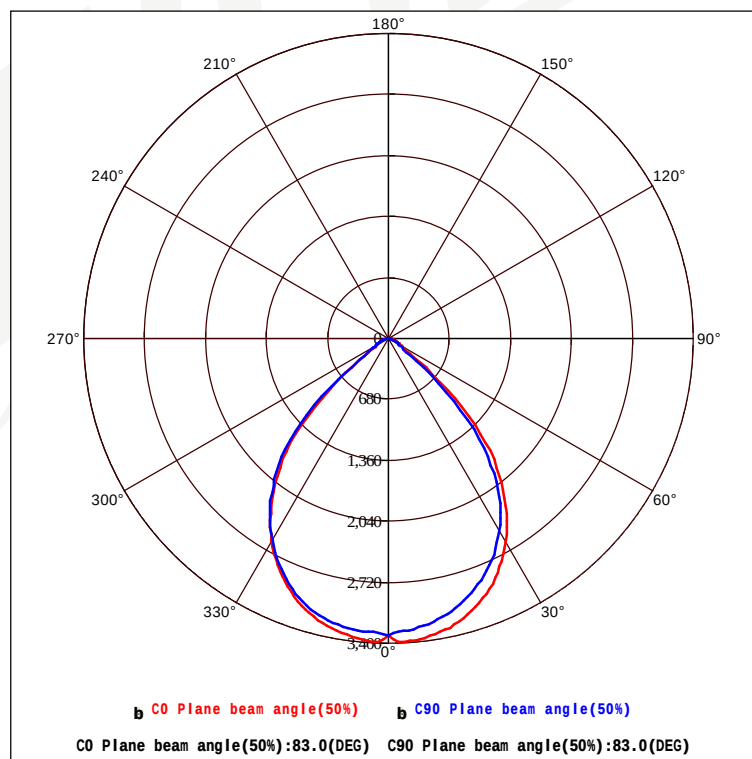


Goniophotometer Test Report

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-50BT01			Lamp Spec: LPFL-50BT01		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-50BT01		Peak Value(cd)	3394.2	Efficiency(lm/w)	110.2
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	5234.166	Down(C0-C180)	49.4
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)	50.6

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

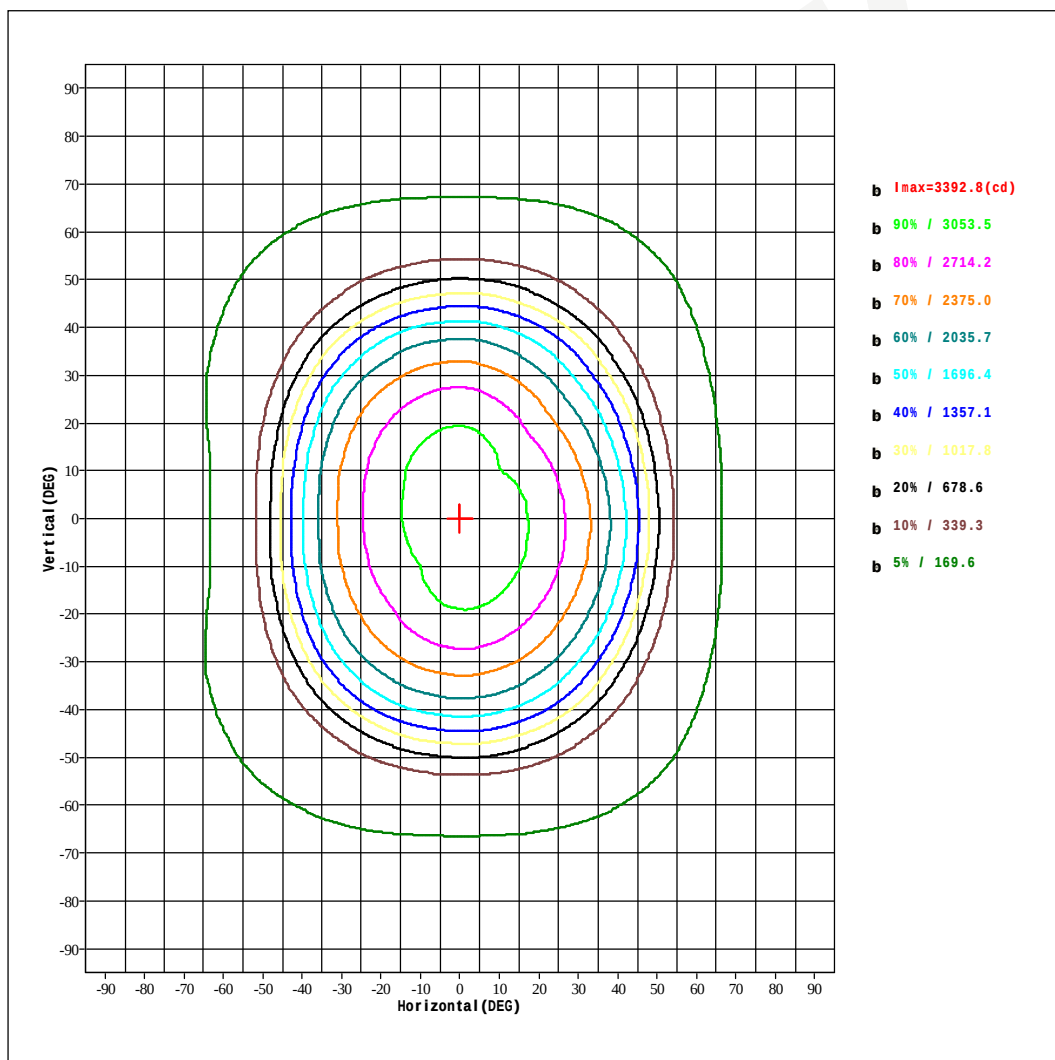
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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: zxc

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

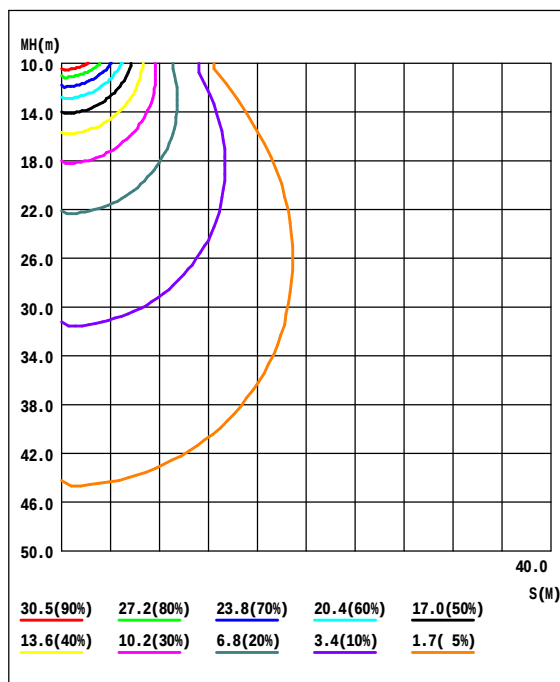
Humidity(%): 60

Date: 2026-1-28

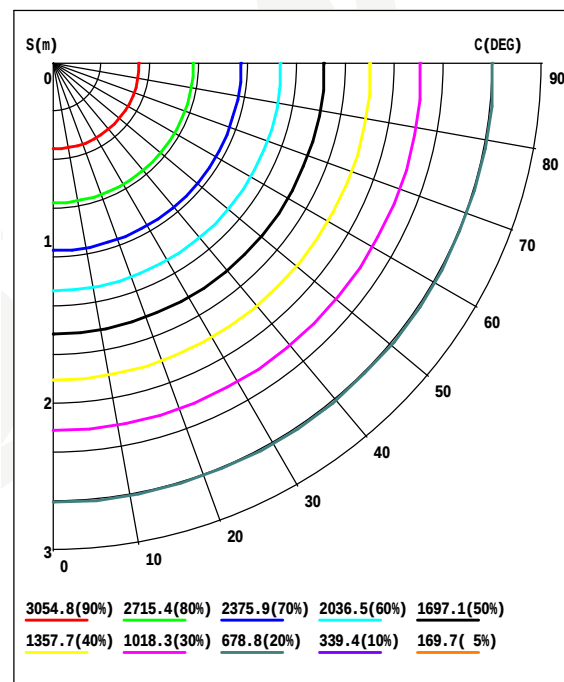
Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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: 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: 2026-1-28

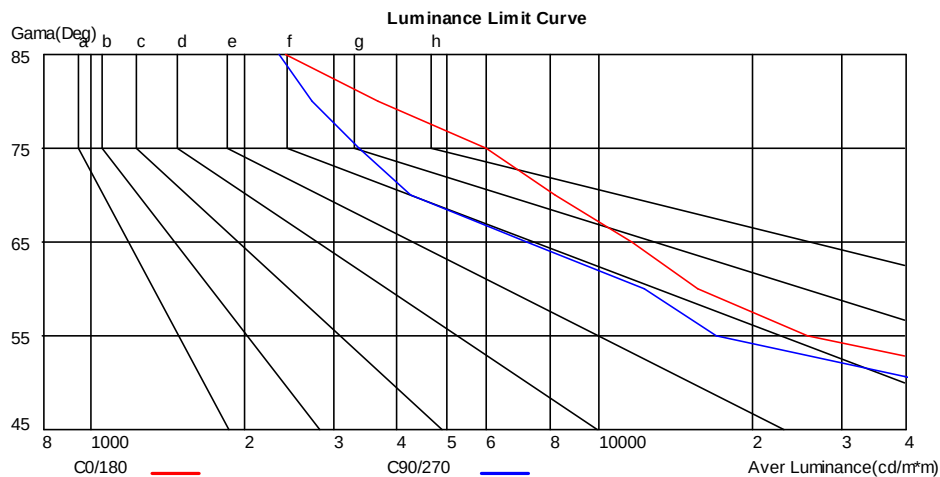
Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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	131034.3	69853.4	25804.4	15611.4	11643.4	8210.4	5985.8	3669.6	2406.4
C90	107900.0	44993.8	17052.5	12271.6	7225.1	4267.4	3372.2	2711.7	2343.2

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: zxg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

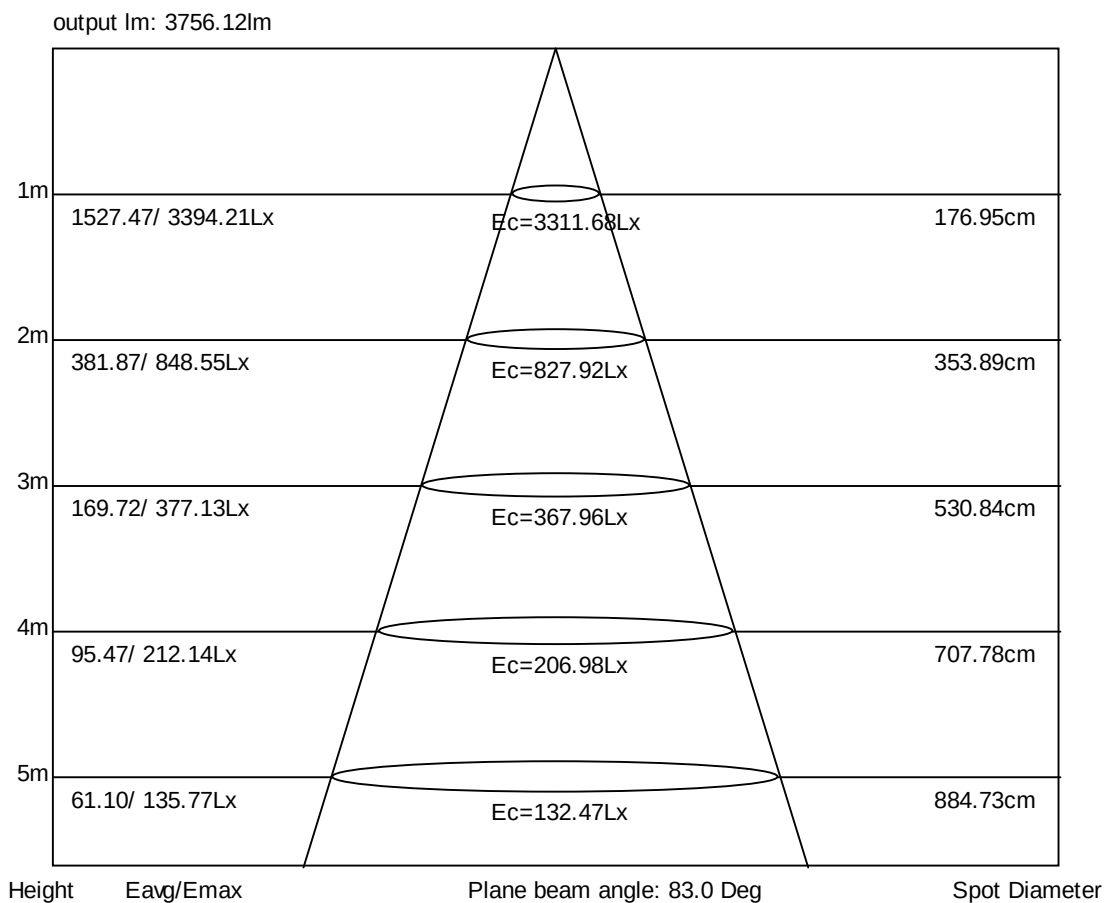
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

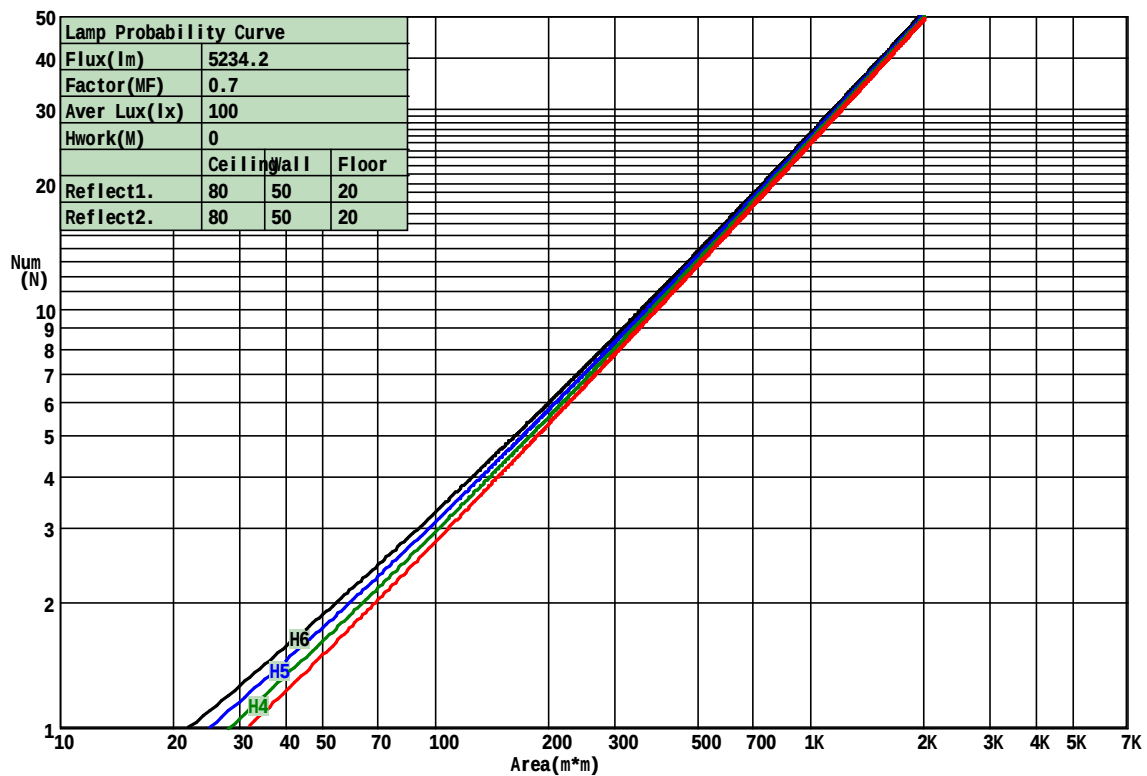
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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: 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: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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	60	46	38	58	46	38	55	44	37
0.80	61	45	35	59	44	35	55	42	34
1.00	62	45	34	60	44	33	55	42	32
1.25	63	45	32	60	44	31	55	41	30
1.50	64	46	31	61	44	31	55	40	29
2.00	67	47	32	63	45	30	56	41	28
2.50	68	48	31	64	45	30	56	40	27
3.00	69	49	31	65	46	30	56	41	27
4.00	71	50	32	66	47	31	57	42	28
5.00	72	51	33	67	48	31	58	42	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	1.09	1.06	1.03	1.07	1.04	1.01	1.02	1	0.98	0.99	0.97	0.95	0.95	0.94	0.92
2	0.99	0.94	0.9	0.97	0.93	0.89	0.94	0.9	0.87	0.91	0.88	0.85	0.88	0.85	0.83
3	0.9	0.84	0.79	0.89	0.83	0.79	0.86	0.81	0.77	0.84	0.8	0.76	0.81	0.78	0.75
4	0.83	0.76	0.71	0.81	0.75	0.7	0.79	0.74	0.69	0.77	0.72	0.69	0.75	0.71	0.68
5	0.76	0.69	0.64	0.75	0.68	0.63	0.73	0.67	0.63	0.71	0.66	0.62	0.69	0.65	0.61
6	0.7	0.63	0.57	0.69	0.62	0.57	0.67	0.61	0.57	0.66	0.6	0.56	0.64	0.6	0.56
7	0.64	0.57	0.52	0.64	0.57	0.52	0.62	0.56	0.52	0.61	0.55	0.51	0.6	0.55	0.51
8	0.6	0.52	0.48	0.59	0.52	0.47	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47
9	0.55	0.48	0.44	0.55	0.48	0.44	0.54	0.48	0.43	0.53	0.47	0.43	0.52	0.47	0.43
10	0.52	0.45	0.4	0.51	0.45	0.4	0.5	0.44	0.4	0.49	0.44	0.4	0.48	0.43	0.4

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: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04	0.19	0.11	0.03	0.18	0.1	0.03
2	0.21	0.11	0.04	0.2	0.11	0.03	0.19	0.11	0.03	0.18	0.1	0.03	0.17	0.1	0.03
3	0.2	0.11	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.17	0.09	0.03
4	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
5	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.16	0.08	0.02
6	0.17	0.09	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
7	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02	0.14	0.07	0.02
8	0.15	0.08	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
9	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02
10	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	0.02	0.13	0.06	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	0.17	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	0.11	0.14	0.11	0.09	0.09	0.08	0.07	0.05	0.05	0.04	0.02	0.01	0.01
3	0.15	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	0.14	0.1	0.07	0.12	0.09	0.06	0.08	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.13	0.09	0.05	0.12	0.08	0.05	0.08	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01
6	0.13	0.08	0.05	0.11	0.07	0.04	0.08	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.12	0.07	0.04	0.1	0.06	0.03	0.07	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	0.11	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	0.09	0.05	0.02	0.06	0.04	0.02	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: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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	3376	3305	3248	3222	3369	3315	3279	3224	0-5	78.9	78.9
10	3322	3240	3175	3156	3306	3261	3236	3165	5-10	233	312
15	3222	3140	3059	3052	3206	3166	3155	3069	10-15	378	690
20	3068	2995	2903	2907	3049	3020	3013	2911	15-20	504	1194
25	2862	2801	2706	2726	2842	2812	2818	2695	20-25	605	1799
30	2591	2556	2450	2491	2575	2544	2574	2424	25-30	672	2471
35	2247	2235	2117	2193	2234	2212	2269	2103	30-35	697	3168
40	1839	1827	1671	1821	1837	1828	1909	1734	35-40	670	3837
45	1310	1271	1079	1297	1309	1314	1423	1234	40-45	575	4412
50	699	626	450	636	666	658	748	604	45-50	386	4799
55	258	221	171	216	224	240	247	237	50-55	169	4968
60	156	141	123	140	149	153	161	148	55-60	81.3	5049
65	116	103	72.3	104	112	108	116	103	60-65	60.7	5110
70	82.1	74	42.7	77.6	78.1	73.4	79.6	70.1	65-70	43.7	5154
75	59.9	53.4	33.7	56.7	54.9	48.1	54.4	47.4	70-75	31.9	5186
80	36.7	38	27.1	41.1	31.9	30.8	33.8	30.9	75-80	22.6	5208
85	24.1	25	23.4	26	19.2	18.6	19.3	18.5	80-85	14.5	5223
90	22.7	22.4	22.4	22.3	17.7	17.5	17.4	17.6	85-90	11.3	5234
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: 2026-1-28

Remark:

Measured Para U: 231.9V I: 354.0mA P: 47.50W PF: 0.578 Test LM: 5234.17lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BT01	Lamp Spec: LPFL-50BT01	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	3376	3345	3312	3286	3260	3242	3230	3238	3305	3369	3346	3321	3303	3287	3267	3242	3240	3310
10.0	3322	3286	3249	3219	3189	3171	3163	3173	3240	3306	3286	3265	3252	3241	3220	3188	3182	3253
15.0	3222	3186	3149	3113	3077	3058	3054	3069	3139	3206	3189	3170	3162	3157	3136	3097	3085	3155
20.0	3068	3036	3003	2965	2923	2904	2906	2923	2987	3049	3036	3023	3017	3014	2990	2944	2928	3000
25.0	2862	2836	2808	2770	2727	2710	2719	2738	2791	2842	2829	2815	2814	2817	2791	2735	2713	2789
30.0	2591	2576	2560	2521	2473	2459	2478	2500	2538	2575	2561	2547	2553	2567	2541	2473	2442	2518
35.0	2247	2242	2236	2196	2143	2134	2168	2197	2216	2234	2224	2215	2231	2257	2233	2158	2119	2184
40.0	1839	1834	1828	1776	1706	1704	1772	1823	1830	1837	1833	1829	1854	1891	1871	1791	1746	1793
45.0	1310	1293	1275	1208	1121	1127	1225	1298	1304	1309	1311	1313	1350	1399	1381	1296	1242	1277
50.0	699	667	634	568	488	491	575	640	653	666	662	659	688	729	717	651	614	657
55.0	258	242	225	205	182	181	201	217	220	224	231	239	243	246	245	241	240	249
60.0	156	149	142	135	127	127	134	141	145	149	151	152	155	159	158	152	149	152
65.0	116	111	105	93.1	79	79.2	93.7	105	109	112	110	108	110	114	113	107	105	111
70.0	82.1	78.6	74.9	63.7	49.5	50.3	66.2	77.7	77.9	78.1	76.1	73.9	75.5	78.3	77.6	73.2	71.4	76.9
75.0	59.9	57	54.1	46.9	38	38.8	49.2	56.5	55.7	54.9	52	48.9	50.2	53	52.9	49.7	48.8	54.4
80.0	36.7	37.3	37.8	34.4	29.5	30.2	36.5	40.1	36	31.9	31.4	30.9	31.8	33.2	33.2	31.9	31.6	34.2
85.0	24.1	24.5	24.9	24.5	23.8	24	25.2	25.3	22.2	19.2	18.9	18.6	18.8	19.2	19.1	18.7	19.1	21.6
90.0	22.7	22.5	22.4	22.4	22.4	22.4	22.3	21.8	19.7	17.7	17.6	17.5	17.4	17.4	17.5	17.6	18.2	20.5
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: 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: 2026-1-28

Remark: