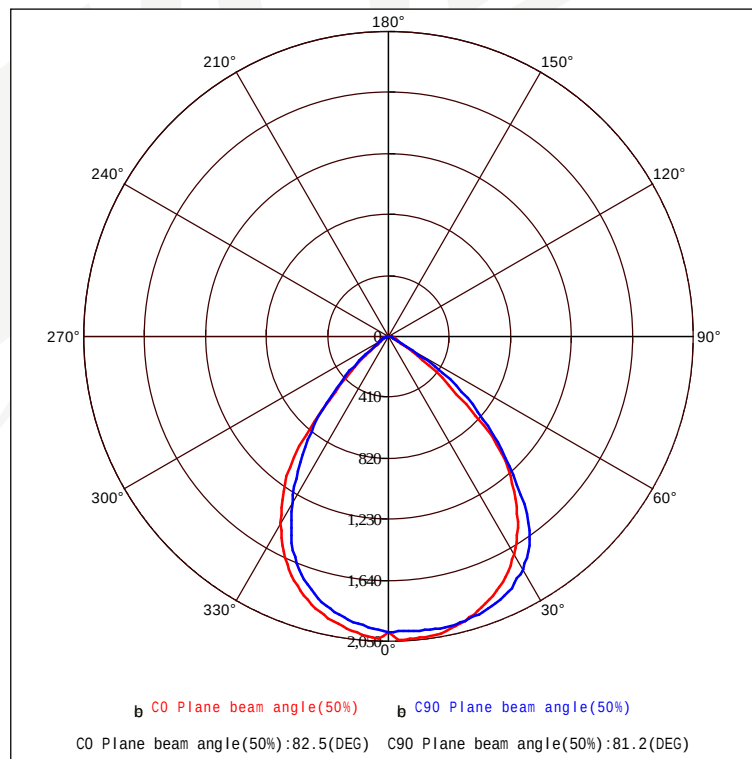


Goniophotometer Test Report

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-30BT01			Lamp Spec: LPFL-30BT01		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-30BT01		Peak Value(cd)	2042.1	Efficiency(lm/w)	111.5
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	3223.176	Down(C0-C180)	57.8
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)	42.2

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

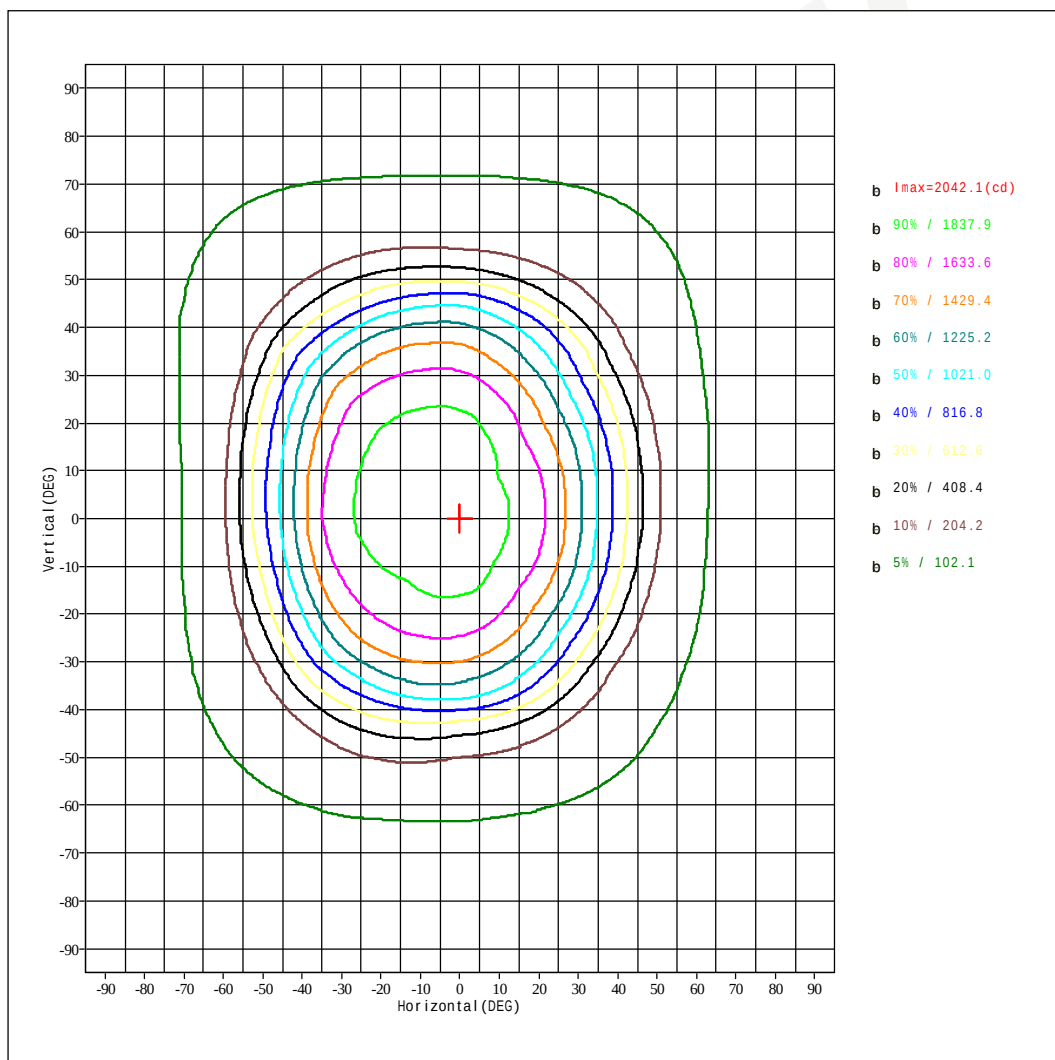
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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

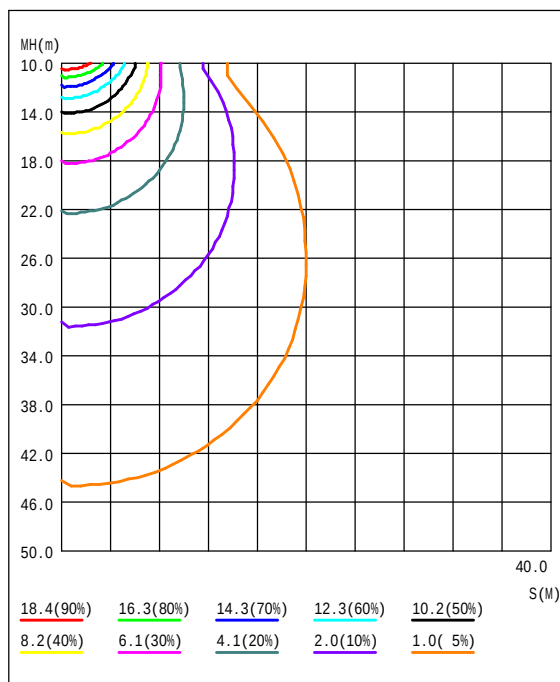
Humidity(%): 60

Date: 2026-1-28

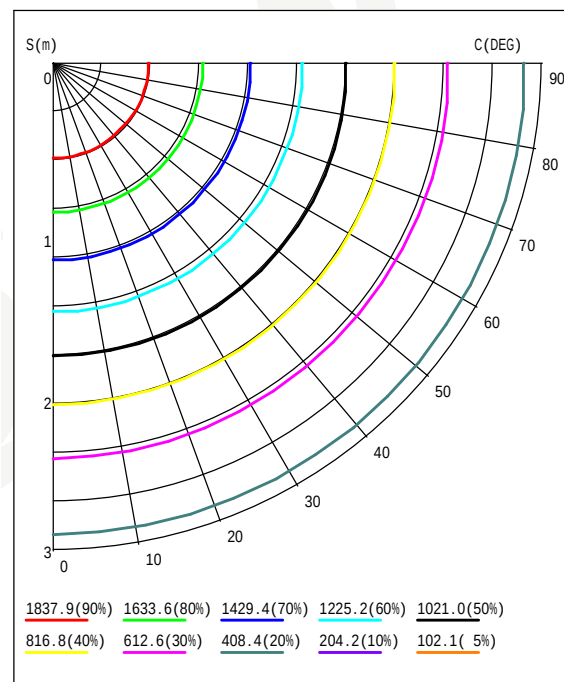
Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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: 2026-1-28

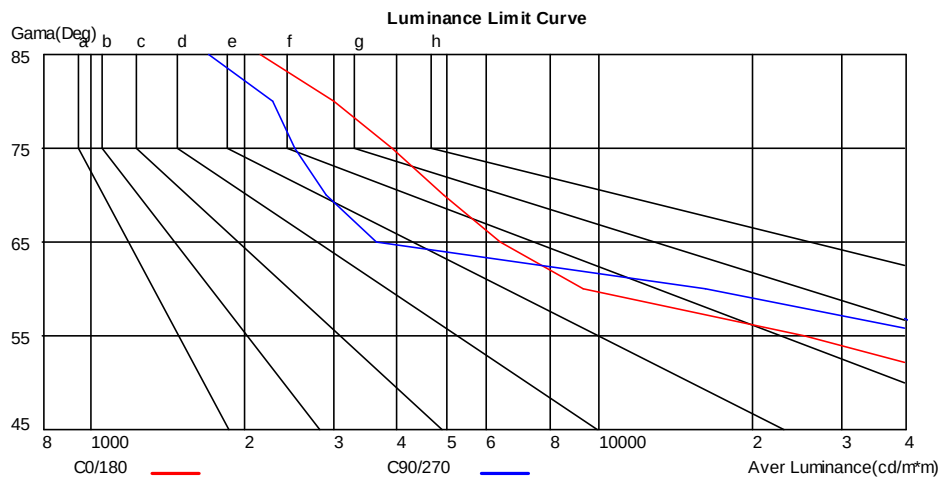
Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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	100429.9	55955.6	25444.7	9308.0	6403.8	4937.2	3900.4	3013.0	2155.0
C90	105202.5	76192.1	47653.5	16160.2	3631.9	2902.8	2507.8	2269.2	1703.7

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

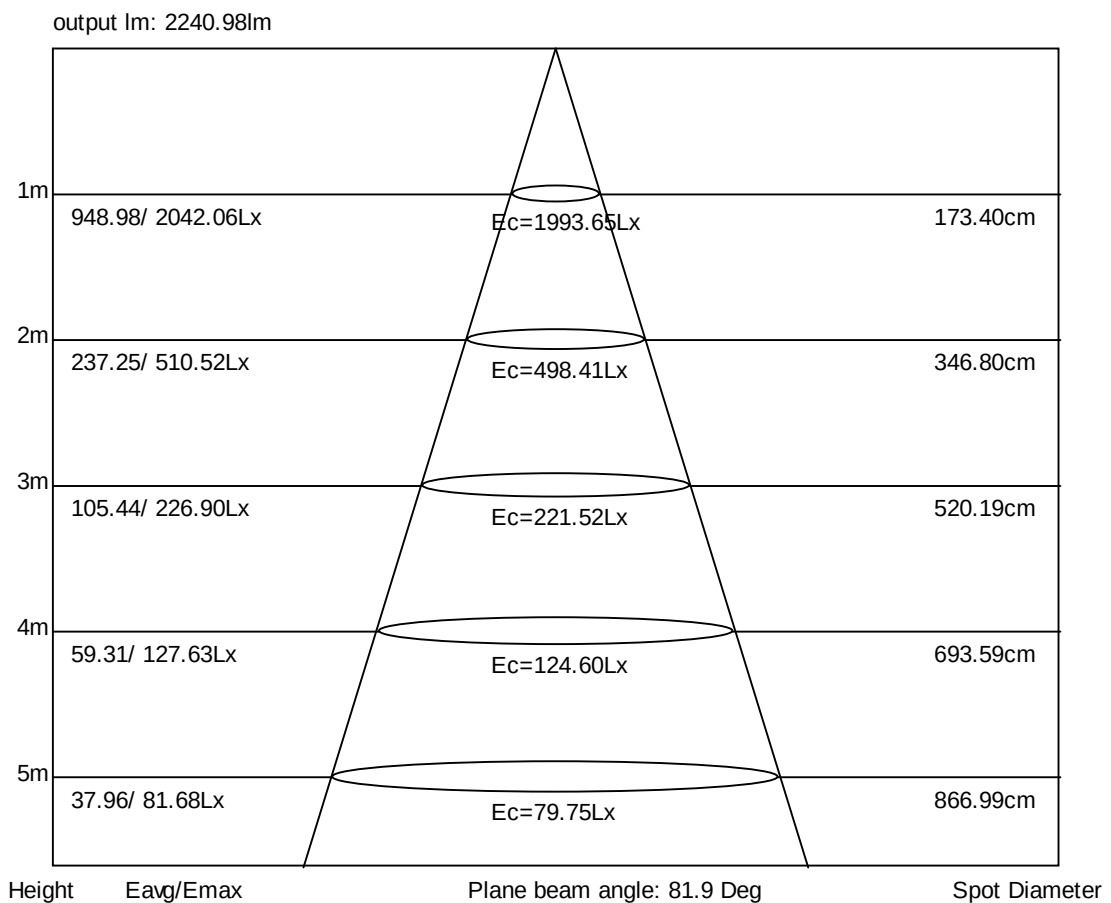
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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

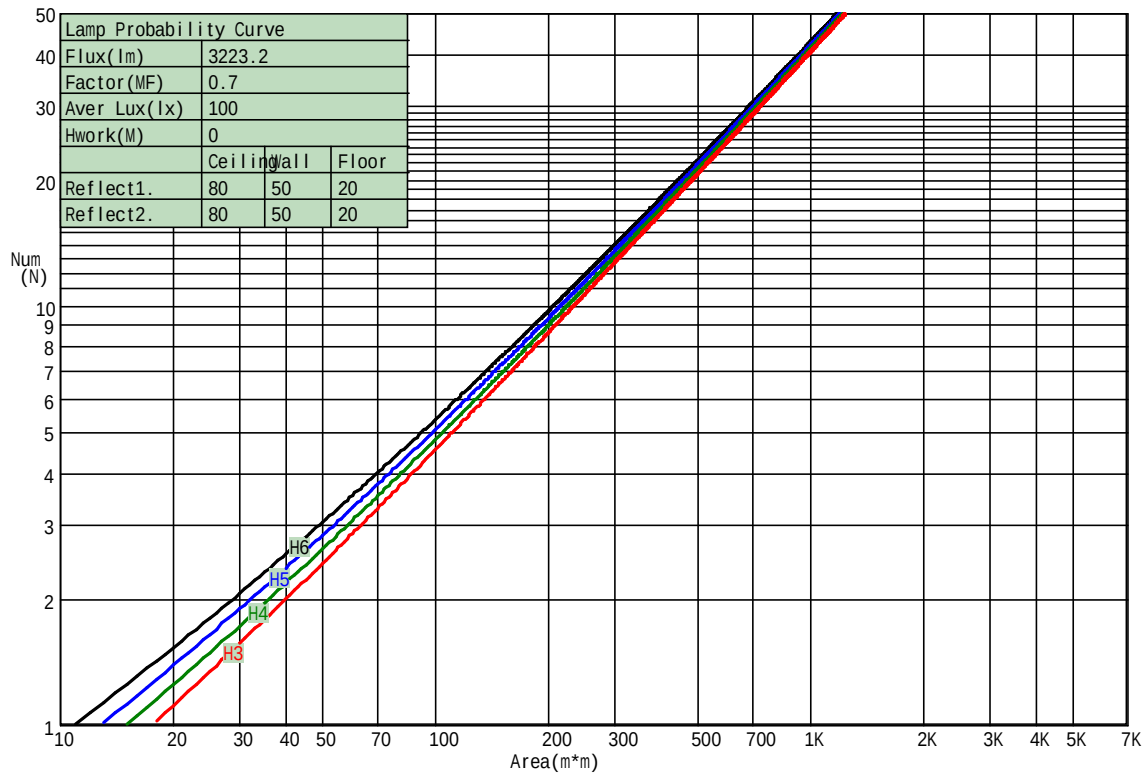
Humidity(%): 60

Date: 2026-1-28

Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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: 2026-1-28

Remark:

Measured Para U: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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	63	50	42	61	50	42	59	48	41
0.80	63	48	38	61	47	38	57	45	37
1.00	64	48	37	61	47	36	57	44	35
1.25	65	47	34	62	46	34	56	43	32
1.50	65	47	33	62	45	32	56	42	31
2.00	67	48	33	64	46	32	57	42	30
2.50	68	49	32	64	46	31	57	42	29
3.00	70	50	33	65	47	31	57	42	28
4.00	71	51	33	67	48	32	58	43	29
5.00	72	52	34	68	49	32	59	43	29

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	1.05	1.03	1.06	1.04	1.01	1.02	1	0.98	0.98	0.97	0.95	0.95	0.94	0.92
2	0.99	0.94	0.89	0.97	0.92	0.88	0.94	0.9	0.86	0.9	0.87	0.85	0.88	0.85	0.83
3	0.9	0.84	0.79	0.88	0.83	0.78	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.77	0.74
4	0.82	0.75	0.7	0.81	0.75	0.7	0.79	0.73	0.69	0.76	0.72	0.68	0.74	0.7	0.67
5	0.75	0.68	0.63	0.74	0.67	0.62	0.72	0.66	0.62	0.7	0.65	0.61	0.69	0.64	0.61
6	0.69	0.62	0.57	0.68	0.61	0.56	0.67	0.6	0.56	0.65	0.6	0.56	0.64	0.59	0.55
7	0.64	0.56	0.51	0.63	0.56	0.51	0.62	0.55	0.51	0.6	0.55	0.51	0.59	0.54	0.5
8	0.59	0.52	0.47	0.58	0.51	0.47	0.57	0.51	0.46	0.56	0.5	0.46	0.55	0.5	0.46
9	0.55	0.48	0.43	0.54	0.47	0.43	0.53	0.47	0.43	0.52	0.46	0.42	0.51	0.46	0.42
10	0.51	0.44	0.4	0.5	0.44	0.39	0.5	0.43	0.39	0.49	0.43	0.39	0.48	0.43	0.39

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: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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	0.13	0.04	0.21	0.12	0.04	0.2	0.12	0.04	0.19	0.11	0.03	0.18	0.1	0.03
2	0.21	0.12	0.04	0.21	0.11	0.04	0.2	0.11	0.03	0.19	0.1	0.03	0.18	0.1	0.03
3	0.2	0.11	0.03	0.2	0.11	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	0.1	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	0.03
6	0.17	0.09	0.02	0.17	0.09	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
7	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.14	0.08	0.02
8	0.16	0.08	0.02	0.15	0.08	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	0.15	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	0.07	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	0.06	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	0.14	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	0.04	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	0.11	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: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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	2038	2012	1991	1957	2010	1955	1948	1931	0-5	47.5	47.5
10	2025	2015	1993	1933	1956	1886	1895	1893	5-10	141	188
15	1975	2001	1979	1895	1883	1793	1812	1824	10-15	228	416
20	1906	1956	1947	1838	1775	1660	1690	1719	15-20	306	722
25	1810	1891	1894	1754	1627	1471	1513	1575	20-25	368	1090
30	1673	1802	1795	1627	1429	1235	1268	1382	25-30	408	1497
35	1496	1669	1642	1452	1187	954	1008	1139	30-35	419	1917
40	1270	1479	1356	1191	813	653	744	876	35-40	396	2313
45	1004	1208	1052	894	423	332	467	599	40-45	331	2644
50	560	909	762	572	181	128	225	314	45-50	241	2885
55	254	592	477	243	80.6	83.7	99.6	121	50-55	148	3033
60	93.1	241	162	114	55.5	54.4	61	78	55-60	77.8	3110
65	64	106	36.3	75.3	41.2	36	48	53.4	60-65	37.2	3148
70	49.4	72.7	29	49.1	31.8	25	37.9	35.6	65-70	24.7	3172
75	39	46.9	25.1	32.8	21.6	18.4	20.1	24.8	70-75	18.3	3191
80	30.1	32.5	22.7	23.6	16.9	15	16.4	17.8	75-80	13.4	3204
85	21.6	24	17	17.7	14.1	13.8	13.5	14.5	80-85	10.3	3214
90	19.5	18.5	16.5	15.9	14.3	14.2	13.7	13	85-90	8.87	3223
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: 232.5V I: 214.0mA P: 28.90W PF: 0.581 Test LM: 3223.18lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BT01	Lamp Spec: LPFL-30BT01	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	2038	2027	2015	2005	1996	1984	1968	1962	1986	2010	1986	1961	1953	1949	1944	1936	1943	1991
10.0	2025	2021	2016	2008	1998	1980	1953	1936	1946	1956	1925	1894	1889	1893	1894	1893	1907	1967
15.0	1975	1986	1998	1994	1984	1961	1922	1894	1888	1883	1844	1803	1799	1808	1815	1820	1841	1909
20.0	1906	1928	1950	1953	1949	1923	1874	1831	1803	1775	1725	1673	1670	1684	1697	1710	1739	1824
25.0	1810	1845	1882	1892	1894	1864	1800	1740	1683	1627	1559	1488	1485	1504	1526	1554	1600	1707
30.0	1673	1730	1788	1800	1797	1758	1682	1605	1515	1429	1344	1257	1246	1261	1293	1345	1414	1546
35.0	1496	1572	1650	1660	1648	1600	1514	1423	1303	1187	1085	980	972	996	1037	1096	1178	1340
40.0	1270	1361	1456	1439	1383	1320	1245	1149	978	813	743	670	683	724	773	832	919	1097
45.0	1004	1094	1186	1157	1086	1017	946	842	629	423	383	342	376	437	496	556	643	827
50.0	560	713	871	861	794	720	634	529	352	181	158	134	160	204	245	285	341	452
55.0	254	402	555	554	502	426	320	226	152	80.6	81.9	83.3	88.9	96.1	104	114	135	196
60.0	93.1	158	225	215	179	151	130	108	81.1	55.5	55	54.5	56.6	59.5	64.7	72.4	79.6	86.5
65.0	64	82.3	101	83	51.5	44.9	62.5	71.6	56.2	41.2	38.9	36.5	39.9	45.3	49.1	51.6	54.6	59.4
70.0	49.4	59.6	70.2	58.4	38.6	33.4	42.5	47.2	39.4	31.8	28.8	25.7	29.2	35.1	37.4	36.3	37.1	43.3
75.0	39	42.5	46.1	39.8	29.9	26.8	30.3	31.6	26.5	21.6	20.2	18.7	18.9	19.8	21.2	23.2	26.3	32.8
80.0	30.1	31.2	32.2	29.3	24.8	22.9	23.3	22.9	19.8	16.9	16.1	15.2	15.5	16.1	16.7	17.4	19.2	24.7
85.0	21.6	22.6	23.7	21.7	18.6	17.2	17.5	17.3	15.6	14.1	14	13.9	13.7	13.6	13.7	14.2	15.3	18.5
90.0	19.5	19	18.6	17.8	16.9	16.3	16.1	15.8	15	14.3	14.3	14.2	14	13.8	13.5	13.2	13.7	16.6
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
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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: 2026-1-28

Remark: