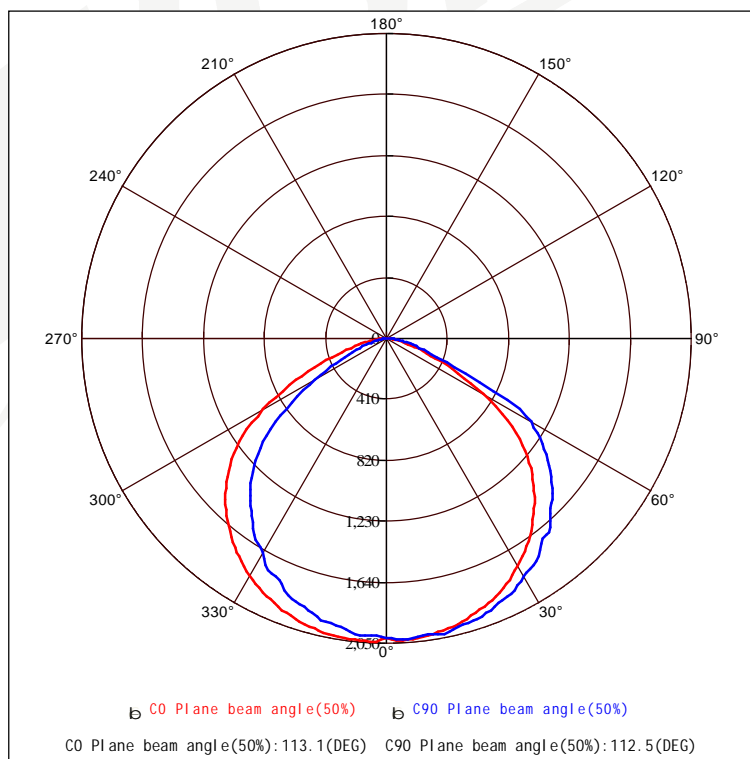


Goniophotometer Test Report

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-50BW02		Lamp Spec: LPFL-50BW02		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-50BW02		Peak Value(cd)	2042.0	Efficiency(lm/w)	114.3
Nominal P(w)	50.0		Position	180.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	5473.696	Down(C0-C180)	55.1
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)	44.9

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

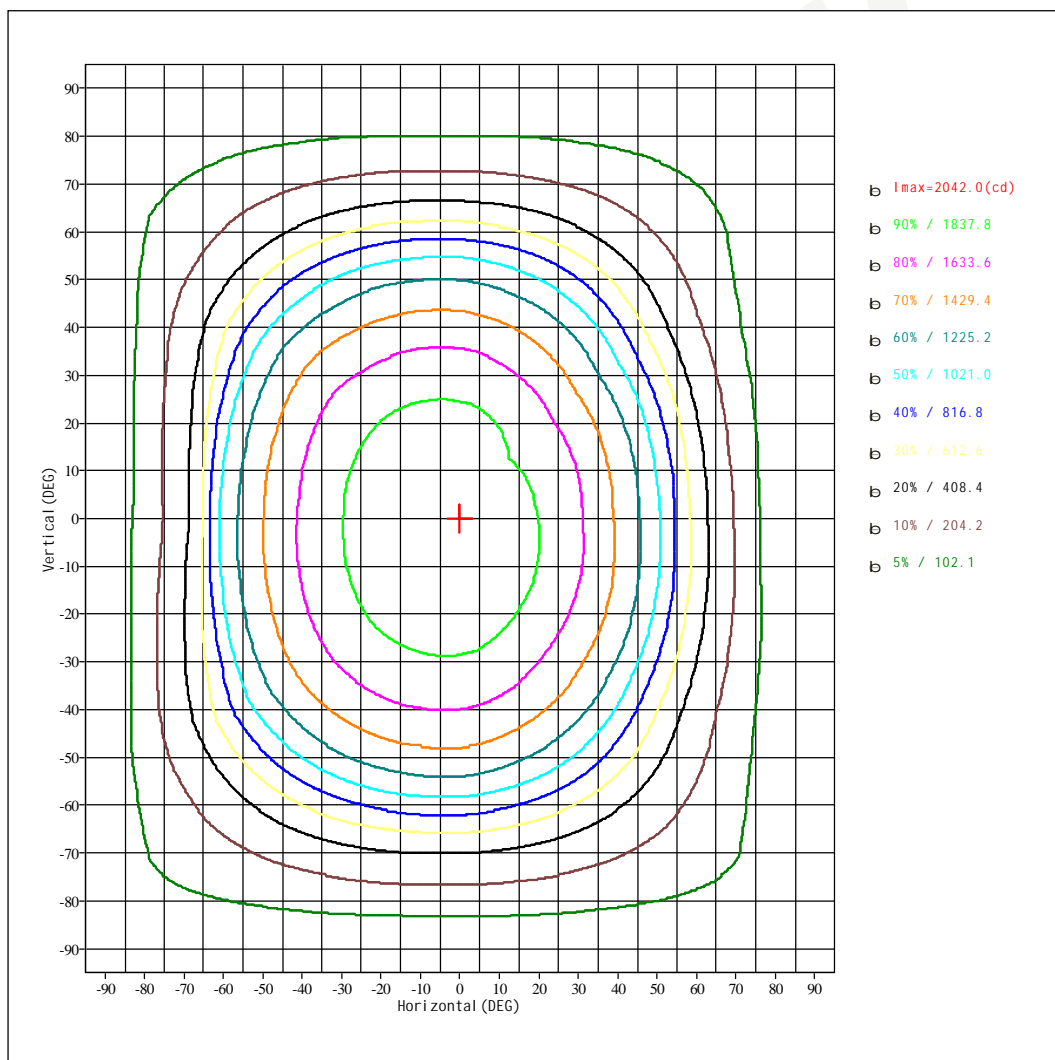
Humidity(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

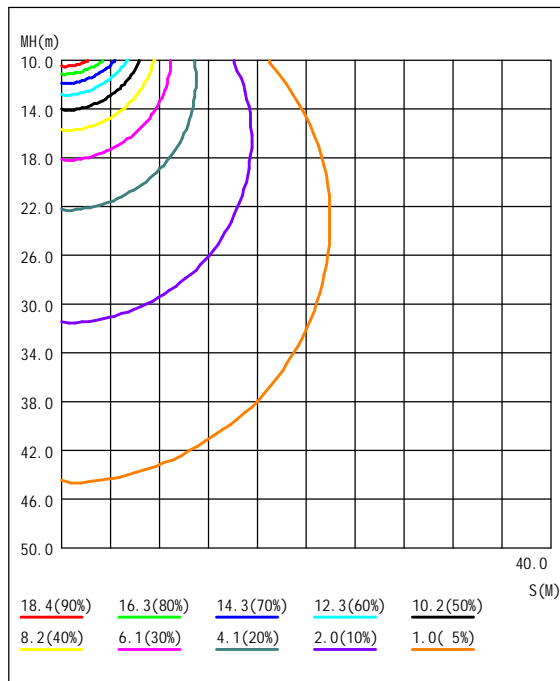
Humi di ty(%): 60

Date: 2026-4-3

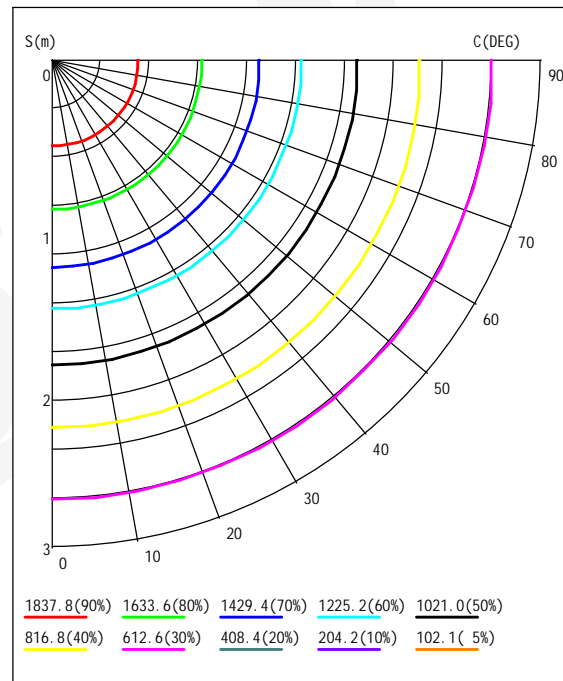
Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

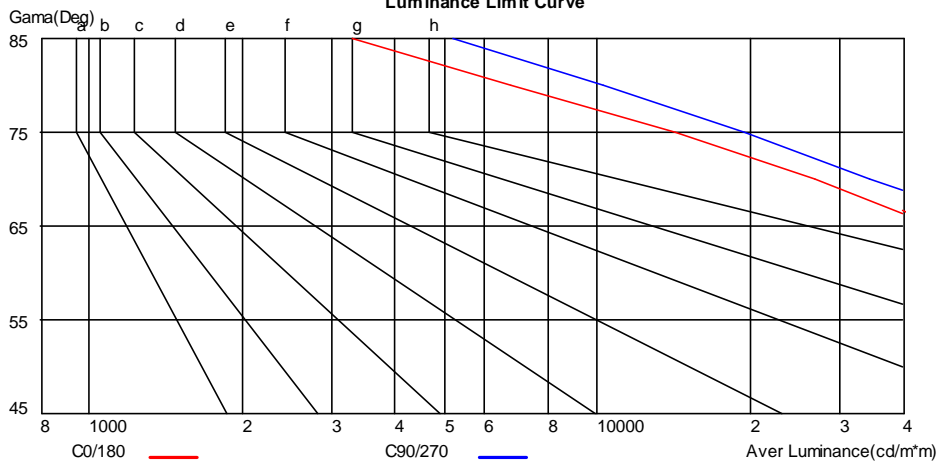
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	138625.9	122138.9	100476.5	72527.4	46339.8	26884.3	14257.0	6759.6	3305.1
C90	156548.1	143197.6	128080.1	110162.3	64122.4	34354.4	19453.5	10305.2	5199.4

Glare

Glare	Class	Illuminance(lx)							
		2000	1000	500	<=300				
1.15	A								
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

Luminance Limit 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

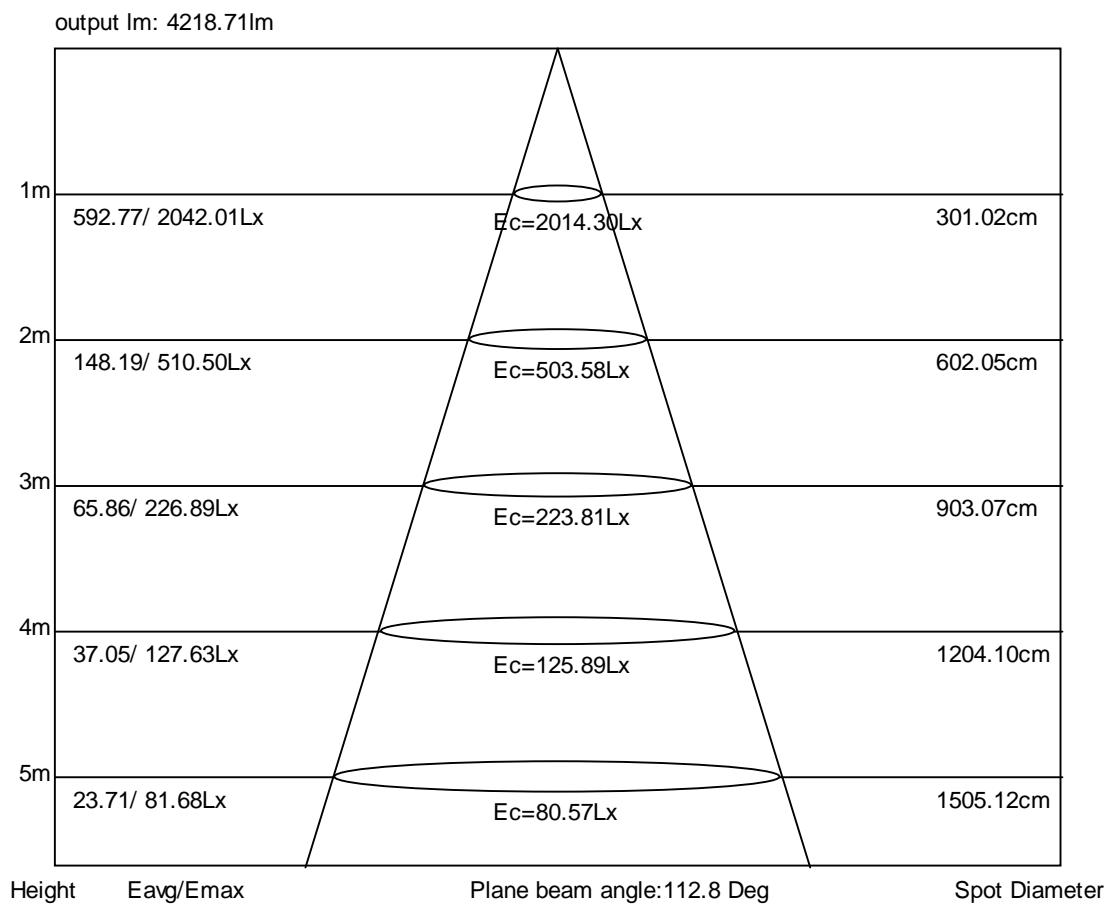
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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: zxg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

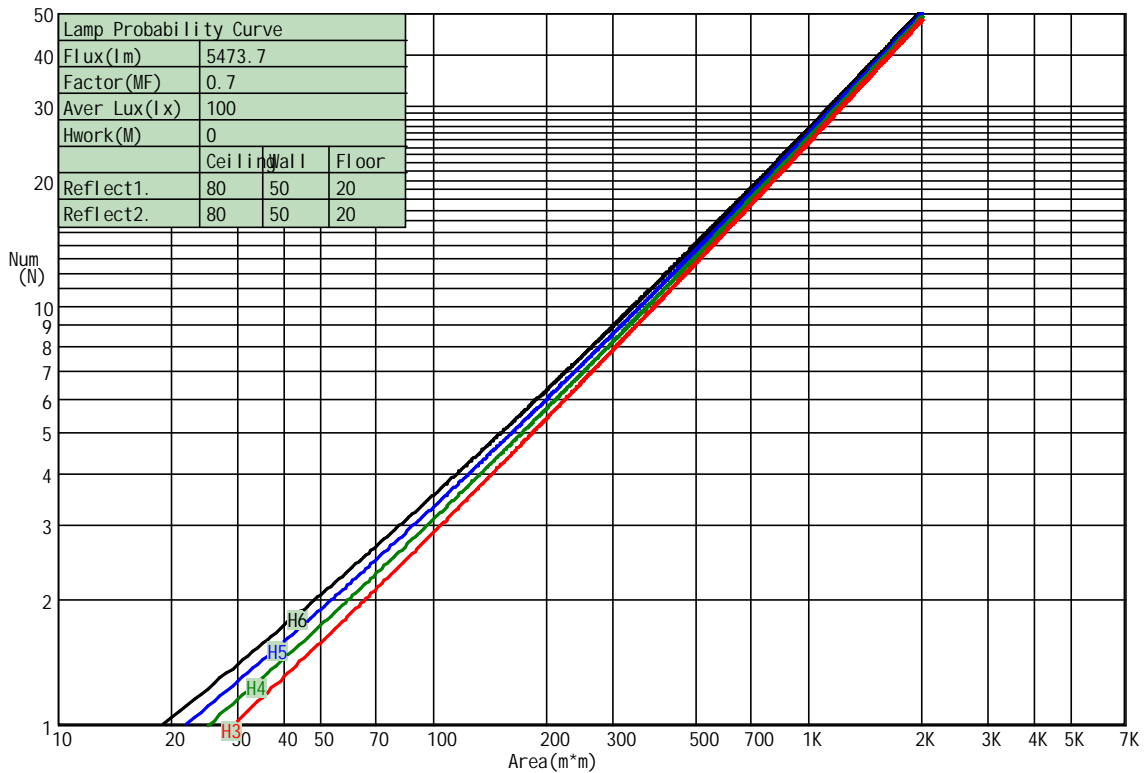
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	Shape Si ze:
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

Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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	54	40	31	53	39	30	50	38	30
0.80	58	42	31	56	41	31	52	39	30
1.00	61	44	32	58	43	31	54	40	30
1.25	63	45	32	60	44	31	55	41	30
1.50	65	46	32	62	44	31	55	41	30
2.00	67	48	33	63	46	32	56	42	29
2.50	68	48	32	64	46	31	57	41	28
3.00	69	49	32	65	46	31	57	41	28
4.00	70	50	32	66	47	30	57	41	27
5.00	71	51	32	66	47	30	57	41	27

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	0.98	1.03	1	0.97	0.99	0.96	0.94	0.95	0.93	0.91	0.92	0.9	0.88
2	0.93	0.87	0.81	0.91	0.85	0.8	0.88	0.83	0.78	0.84	0.8	0.77	0.81	0.78	0.75
3	0.82	0.74	0.68	0.81	0.73	0.68	0.78	0.71	0.66	0.75	0.7	0.65	0.72	0.68	0.64
4	0.73	0.65	0.58	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.6	0.55
5	0.65	0.57	0.5	0.64	0.56	0.5	0.62	0.55	0.49	0.6	0.54	0.49	0.58	0.53	0.48
6	0.59	0.5	0.44	0.58	0.5	0.44	0.56	0.49	0.43	0.54	0.48	0.43	0.53	0.47	0.43
7	0.53	0.45	0.39	0.53	0.44	0.39	0.51	0.44	0.38	0.5	0.43	0.38	0.48	0.42	0.38
8	0.49	0.4	0.35	0.48	0.4	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34
9	0.45	0.37	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31
10	0.41	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28

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: 2026-4-3

Remark:

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05	0.23	0.14	0.04
2	0.27	0.15	0.05	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04
3	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
4	0.24	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.03	0.21	0.11	0.03
5	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
6	0.21	0.1	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
7	0.19	0.1	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02
9	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
10	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	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	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.04	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.01	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	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: zxcg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	Shape Si ze:
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	2029	2042	2022	2016	2040	2026	2005	1978	0-5	48.3	48.3
10	2005	2011	2026	1993	2029	1984	1955	1936	5-10	143	192
15	1966	2000	1988	1997	2002	1949	1906	1886	10-15	235	426
20	1914	1951	1962	1947	1960	1883	1858	1819	15-20	320	746
25	1847	1902	1916	1916	1906	1819	1763	1741	20-25	394	1140
30	1760	1834	1840	1848	1834	1713	1645	1635	25-30	459	1599
35	1653	1742	1773	1783	1743	1630	1542	1545	30-35	506	2105
40	1527	1644	1695	1677	1639	1475	1415	1382	35-40	540	2645
45	1386	1536	1565	1601	1518	1345	1252	1228	40-45	552	3196
50	1221	1381	1432	1450	1372	1151	1060	1026	45-50	544	3740
55	1005	1219	1281	1304	1188	892	793	758	50-55	505	4245
60	725	1008	1102	1119	928	622	532	499	55-60	433	4678
65	463	721	641	861	644	395	322	293	60-65	331	5009
70	269	452	344	582	408	224	179	152	65-70	215	5224
75	143	255	195	349	234	114	84.8	67.9	70-75	130	5354
80	67.6	134	103	183	119	47.3	34.4	28.7	75-80	69.8	5424
85	33.1	62.7	52	85.7	51.7	17.4	10.7	9.57	80-85	34.1	5458
90	15.4	29.2	31.4	36.8	16.9	9.96	10	10.1	85-90	15.5	5474
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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 235.0V I: 387.0mA P: 47.90W PF: 0.525 Test LM: 5473.70lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-50BW02	Lamp Spec: LPFL-50BW02	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	2029	2035	2041	2035	2026	2020	2018	2018	2029	2040	2034	2027	2019	2009	1999	1987	1984	2007
10.0	2005	2008	2010	2016	2023	2019	2004	1997	2013	2029	2010	1989	1975	1962	1951	1942	1943	1975
15.0	1966	1981	1996	1996	1991	1990	1994	1997	2000	2002	1979	1955	1935	1916	1902	1893	1895	1931
20.0	1914	1930	1947	1955	1960	1959	1952	1949	1955	1960	1926	1891	1875	1863	1850	1832	1829	1872
25.0	1847	1871	1896	1907	1913	1916	1916	1915	1910	1906	1868	1829	1801	1776	1759	1749	1753	1801
30.0	1760	1792	1826	1836	1838	1841	1845	1846	1840	1834	1781	1726	1691	1660	1643	1638	1648	1705
35.0	1653	1692	1733	1753	1767	1776	1780	1779	1761	1743	1694	1643	1601	1561	1543	1544	1557	1605
40.0	1527	1578	1631	1660	1683	1691	1683	1672	1655	1639	1567	1493	1455	1428	1408	1393	1398	1464
45.0	1386	1452	1520	1546	1559	1573	1589	1592	1554	1518	1442	1364	1314	1273	1247	1236	1246	1317
50.0	1221	1291	1364	1398	1421	1436	1444	1441	1406	1372	1275	1175	1121	1080	1052	1037	1047	1136
55.0	1005	1098	1195	1239	1267	1286	1297	1292	1239	1188	1059	924	860	815	786	770	785	897
60.0	725	849	977	1038	1081	1105	1113	1098	1012	928	794	656	593	551	525	510	524	626
65.0	463	576	693	695	659	689	789	837	739	644	535	422	371	338	316	303	312	389
70.0	269	349	432	416	367	396	504	563	484	408	328	244	209	189	173	161	165	218
75.0	143	192	242	235	208	228	298	337	284	234	181	127	104	91.1	81.1	73.4	76	110
80.0	67.6	96.5	126	124	110	121	157	176	147	119	87.7	55.2	43.1	37.2	33.2	30.6	32.9	50.6
85.0	33.1	46	59.5	59.2	54.3	59.4	74.6	82	66.6	51.7	36.7	21.2	15.2	12.1	10.4	9.93	12.1	22.8
90.0	15.4	21.4	27.6	29.9	30.9	32.6	35	34.6	25.6	16.9	13.8	10.7	9.98	10	10	10.1	10.6	13
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: zxcg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goniophotometer System V3.0