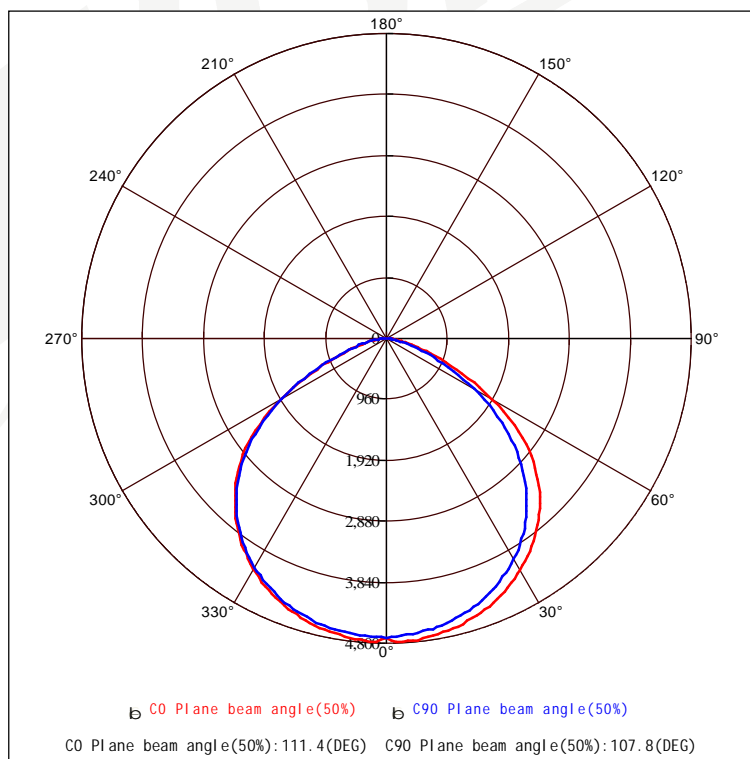


### Goniophotometer Test Report

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-100BW02		Lamp Spec: LPFL-100BW02		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-100BW02		Peak Value(cd)	4791.2	Efficiency(lm/w)	120.4
Nominal P(w)	100.0		Position	0.0, 1.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	12426.783	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

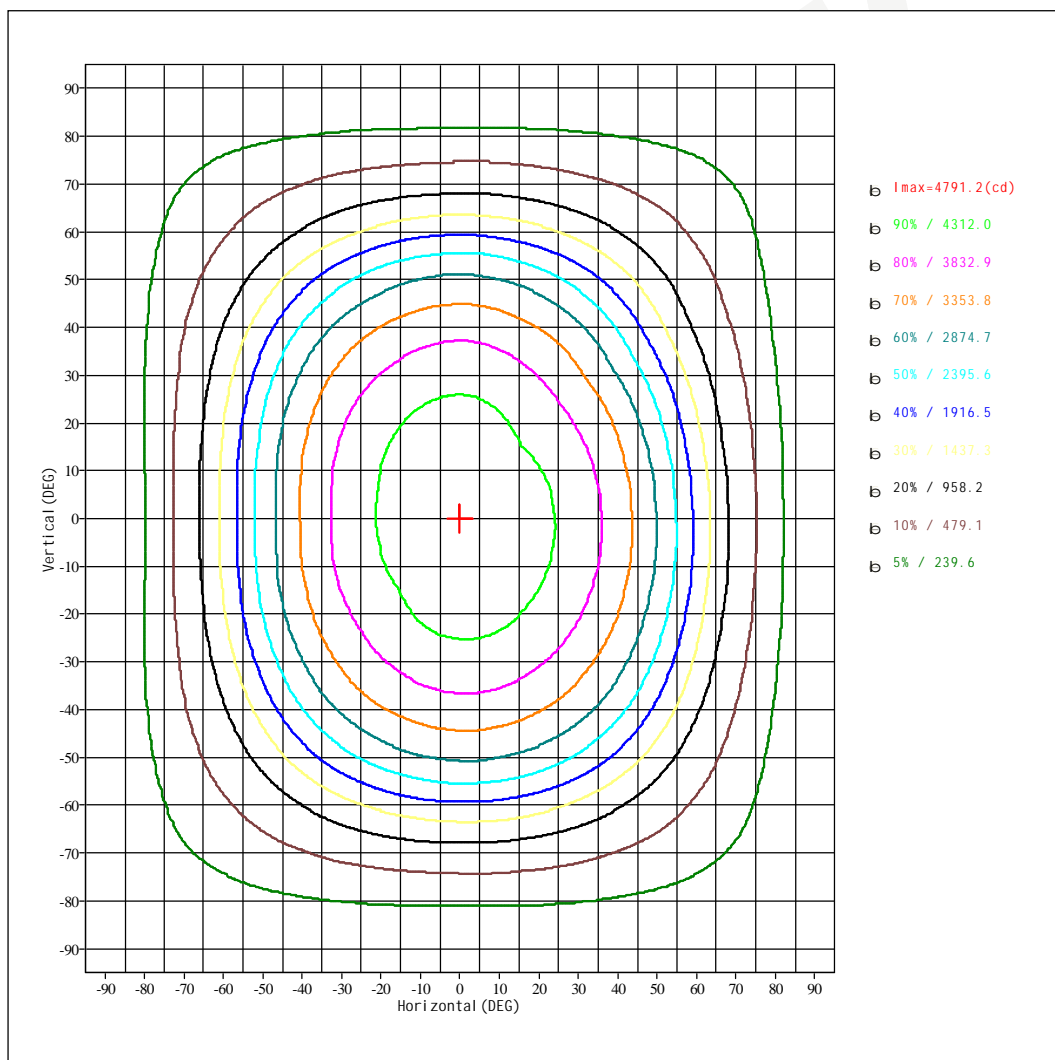
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	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

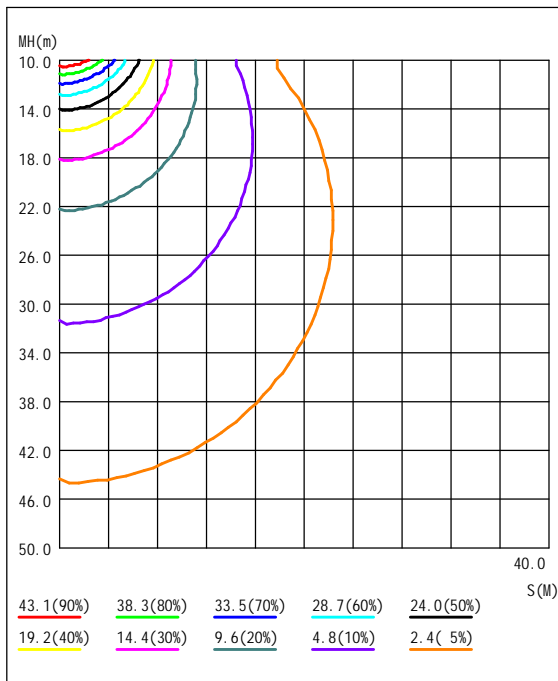
Humi di ty(%): 60

Date: 2026-4-3

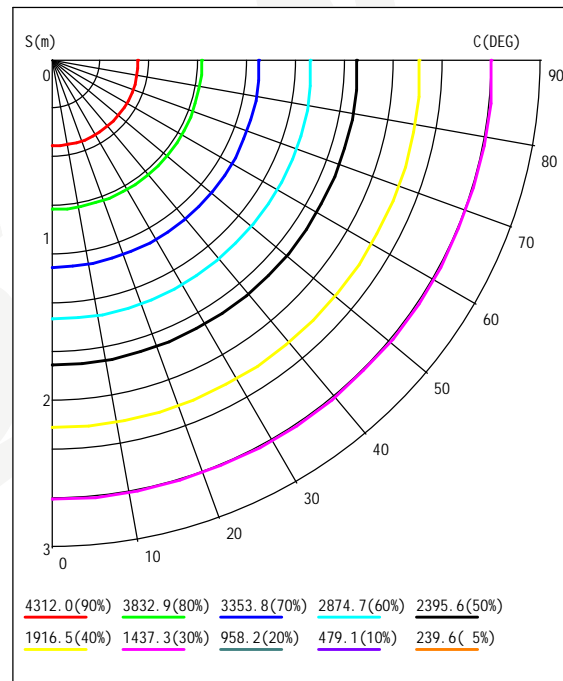
Remark:

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

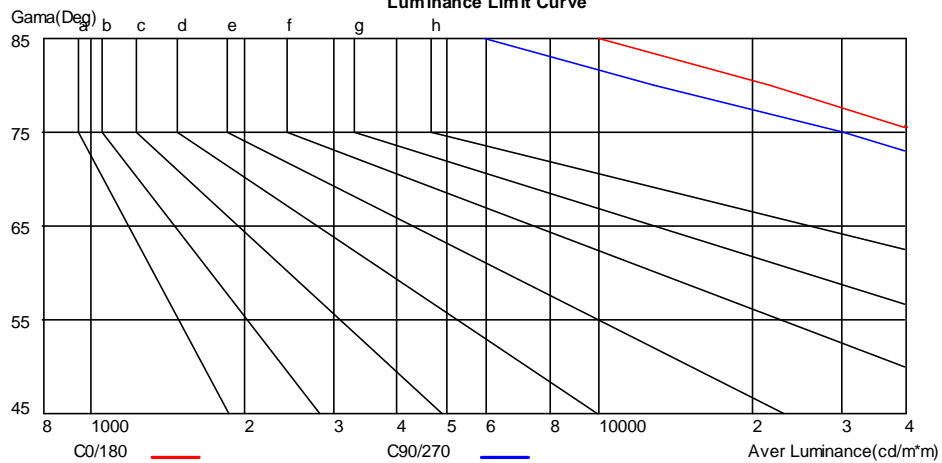
Aver Luminance(cd/m\*m)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	337498.3	298436.5	249151.8	185568.4	126499.9	77870.3	43348.3	21685.9	9968.6
C90	302563.2	258858.7	208261.3	153687.5	102514.9	62210.4	30348.2	12795.4	5941.7

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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

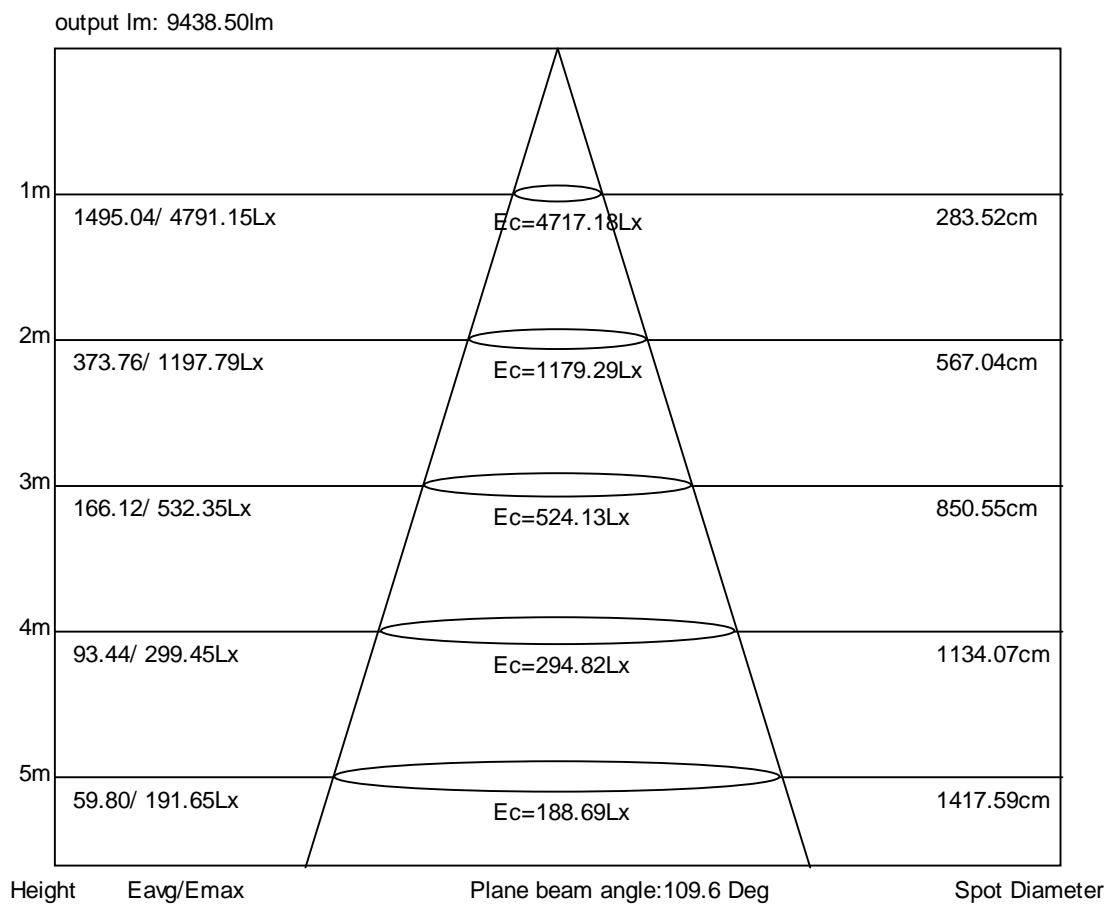
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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

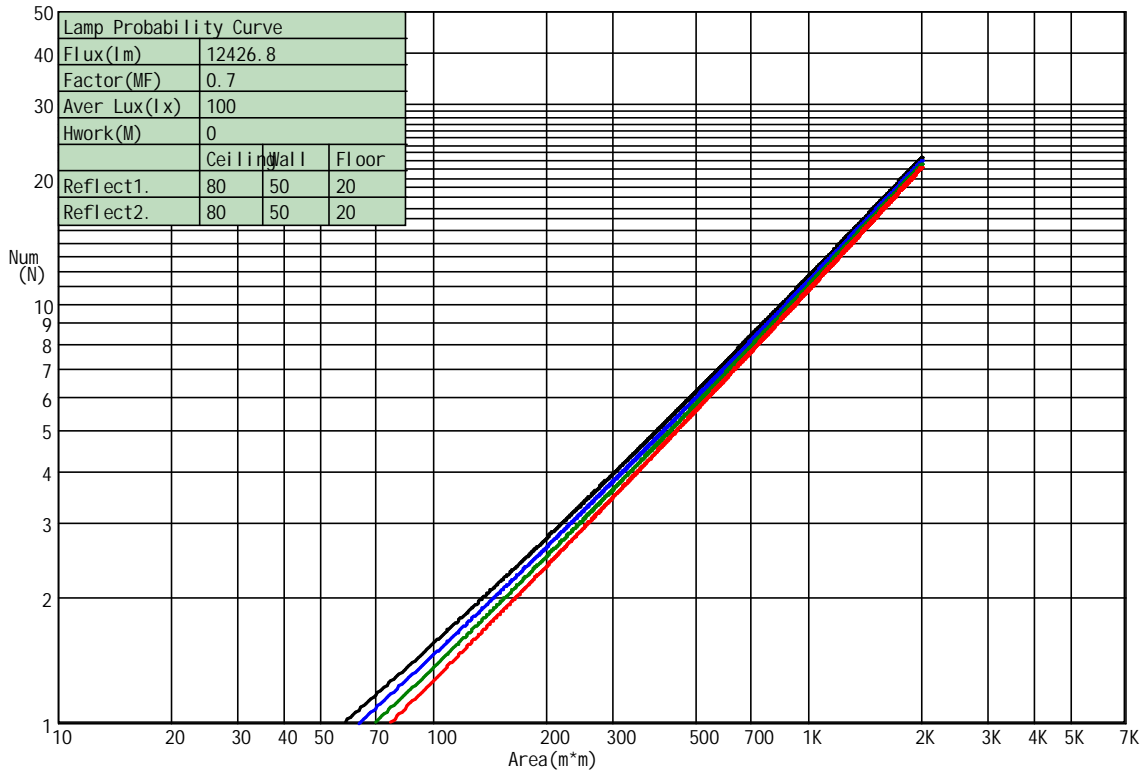
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	Shape Size:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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: 2026-4-3

Remark:

Measured Para U: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	Shape Si ze:
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	55	41	32	54	40	32	51	39	31
0.80	59	43	33	57	42	32	53	40	31
1.00	62	45	33	59	44	33	55	41	32
1.25	64	46	33	61	45	33	56	42	31
1.50	66	47	33	62	46	33	56	42	31
2.00	68	49	34	64	47	33	57	43	31
2.50	69	49	33	65	47	32	57	42	29
3.00	70	50	33	65	47	32	57	42	29
4.00	71	51	33	66	48	31	58	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	1.06	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	0.82	0.91	0.86	0.81	0.88	0.83	0.79	0.85	0.81	0.77	0.82	0.78	0.75
3	0.82	0.75	0.69	0.81	0.74	0.68	0.78	0.72	0.67	0.75	0.7	0.66	0.73	0.68	0.65
4	0.73	0.65	0.59	0.72	0.64	0.58	0.7	0.63	0.57	0.67	0.61	0.57	0.65	0.6	0.56
5	0.66	0.57	0.51	0.65	0.57	0.5	0.63	0.55	0.5	0.61	0.54	0.49	0.59	0.53	0.49
6	0.59	0.51	0.44	0.58	0.5	0.44	0.57	0.49	0.44	0.55	0.48	0.43	0.53	0.48	0.43
7	0.54	0.45	0.39	0.53	0.45	0.39	0.51	0.44	0.39	0.5	0.43	0.39	0.49	0.43	0.38
8	0.49	0.41	0.35	0.48	0.4	0.35	0.47	0.4	0.35	0.46	0.39	0.35	0.45	0.39	0.34
9	0.45	0.37	0.32	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31
10	0.42	0.34	0.29	0.41	0.34	0.29	0.4	0.33	0.28	0.39	0.33	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: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	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	0.24	0.14	0.05	0.23	0.13	0.04
2	0.27	0.15	0.04	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	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.03	0.21	0.11	0.03	0.2	0.11	0.03
5	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03
6	0.2	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
7	0.19	0.09	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	0.07	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: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.78lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	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	4784	4725	4678	4614	4755	4731	4693	4641	0-5	113	113
10	4725	4661	4609	4575	4716	4673	4659	4576	5-10	334	447
15	4639	4575	4511	4492	4634	4584	4573	4507	10-15	546	993
20	4537	4457	4377	4366	4521	4474	4466	4383	15-20	743	1736
25	4380	4293	4199	4228	4353	4329	4330	4230	20-25	917	2653
30	4188	4093	3989	4024	4162	4127	4140	4042	25-30	1062	3715
35	3969	3858	3726	3787	3941	3897	3911	3797	30-35	1172	4887
40	3708	3573	3400	3501	3661	3619	3628	3510	35-40	1241	6127
45	3375	3226	3026	3147	3332	3282	3285	3157	40-45	1260	7388
50	2984	2810	2589	2738	2941	2893	2879	2722	45-50	1224	8612
55	2492	2328	2083	2250	2456	2426	2401	2204	50-55	1122	9734
60	1856	1751	1537	1668	1842	1849	1843	1617	55-60	943	10677
65	1265	1199	1025	1122	1250	1255	1270	1087	60-65	708	11386
70	779	753	622	702	757	757	806	675	65-70	479	11865
75	433	435	303	412	415	414	475	388	70-75	293	12158
80	217	226	128	220	205	211	247	206	75-80	160	12318
85	99.7	102	59.4	104	90.7	85.3	112	87.4	80-85	78	12396
90	41.1	32.2	32.3	31.9	23.4	30.2	29.5	30.4	85-90	31	12427
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: 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: 235.7V I: 449.0mA P: 103.20W PF: 0.974 Test LM: 12426.781m		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-100BW02	Lamp Spec: LPFL-100BW02	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	4784	4758	4731	4709	4688	4664	4635	4630	4693	4755	4744	4734	4719	4701	4682	4658	4656	4721
10.0	4725	4697	4668	4644	4620	4601	4586	4590	4654	4716	4697	4678	4669	4662	4641	4603	4592	4660
15.0	4639	4611	4582	4554	4525	4507	4498	4507	4572	4634	4612	4589	4580	4575	4558	4529	4522	4582
20.0	4537	4502	4466	4431	4395	4375	4370	4383	4453	4521	4500	4479	4471	4468	4448	4410	4400	4469
25.0	4380	4342	4302	4262	4220	4206	4219	4242	4298	4353	4343	4332	4329	4330	4308	4263	4246	4315
30.0	4188	4146	4103	4059	4012	3997	4012	4039	4102	4162	4147	4131	4131	4137	4119	4074	4058	4124
35.0	3969	3920	3870	3815	3755	3739	3767	3804	3873	3941	3921	3902	3902	3908	3886	3835	3816	3894
40.0	3708	3649	3588	3516	3438	3422	3468	3518	3591	3661	3643	3623	3622	3626	3602	3548	3531	3621
45.0	3375	3310	3243	3160	3070	3052	3107	3167	3251	3332	3310	3287	3283	3285	3257	3199	3181	3280
50.0	2984	2908	2829	2738	2637	2621	2689	2760	2852	2941	2920	2898	2888	2882	2845	2773	2750	2869
55.0	2492	2420	2346	2248	2136	2119	2195	2272	2366	2456	2443	2430	2418	2407	2358	2269	2236	2366
60.0	1856	1810	1762	1681	1584	1566	1625	1687	1766	1842	1845	1848	1847	1845	1794	1691	1643	1751
65.0	1265	1236	1207	1142	1063	1046	1090	1136	1194	1250	1252	1254	1260	1267	1230	1147	1106	1187
70.0	779	767	756	710	651	640	676	708	733	757	757	757	773	795	777	718	686	733
75.0	433	434	435	392	332	327	376	412	414	415	415	414	434	462	456	416	393	413
80.0	217	221	225	194	149	148	190	219	212	205	207	210	223	239	239	220	208	212
85.0	99.7	101	102	88.2	68.8	69.1	89.1	102	96.3	90.7	88.3	85.9	93.9	106	106	95.3	88.7	94.3
90.0	41.1	37.2	33.2	32.2	32.3	32.2	32.1	31	27.1	23.4	26.4	29.5	30	29.6	29.7	30.1	31.6	36.4
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: zyg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goniophotometer System V3.0