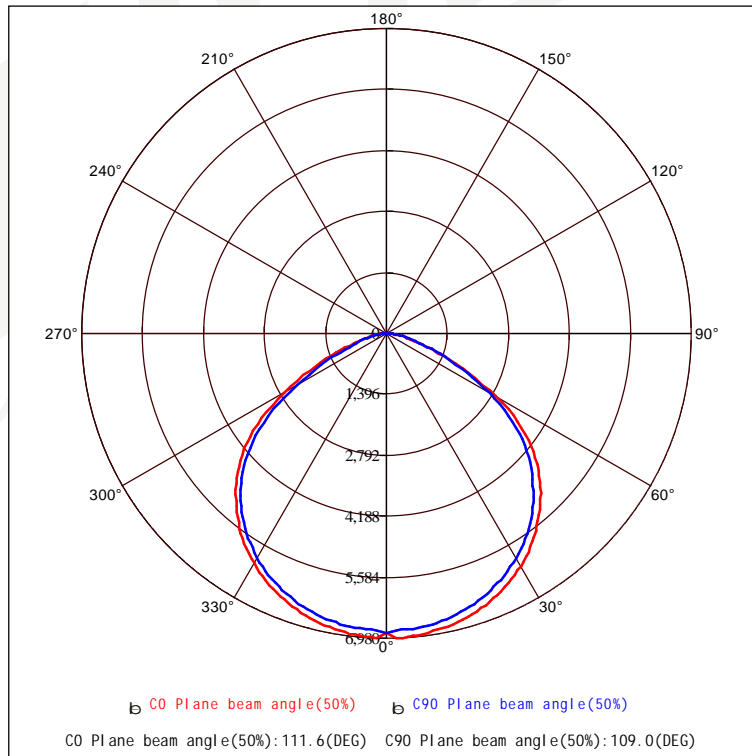


Goniophotometer Test Report

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-150BW02		Lamp Spec: LPFL-150BW02		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-150BW02		Peak Value(cd)	6978.7	Efficiency(lm/w)	124.2
Nominal P(w)	150.0		Position	0.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	18060.806	Down(C0-C180)	51.5
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)	48.5

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

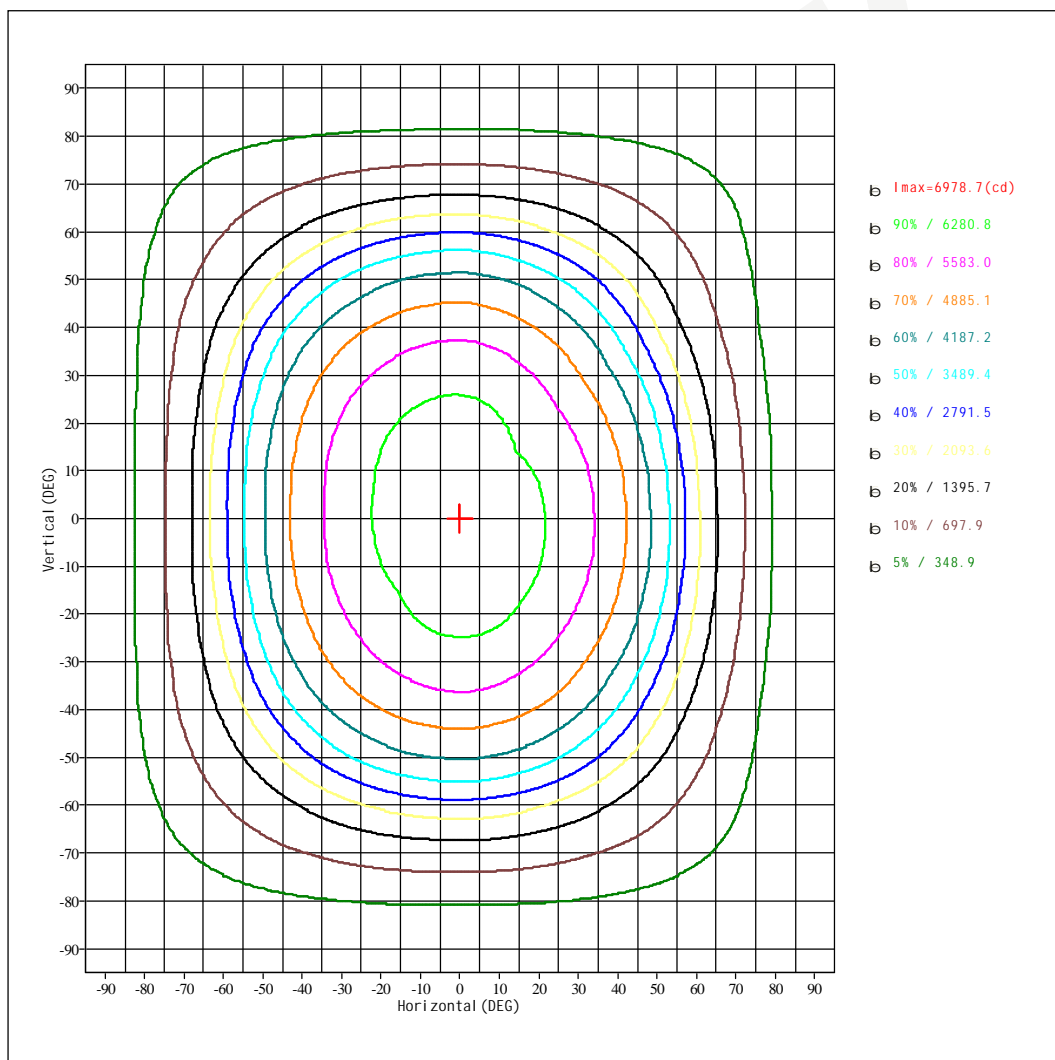
Humidity(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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: zxg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

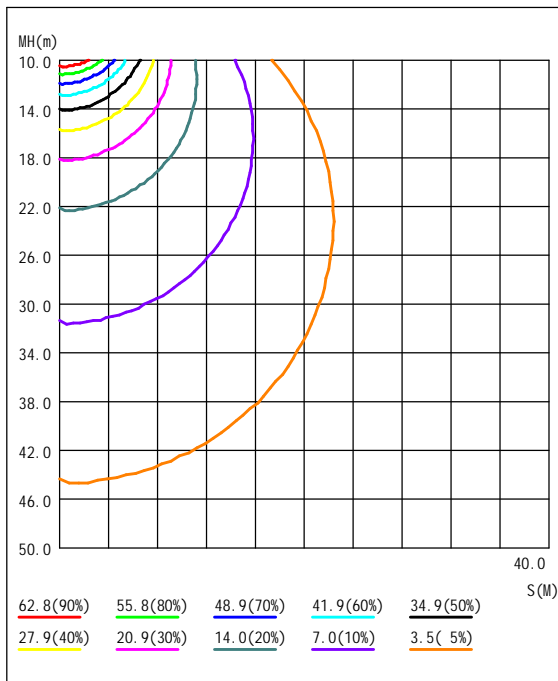
Humi di ty(%): 60

Date: 2026-4-3

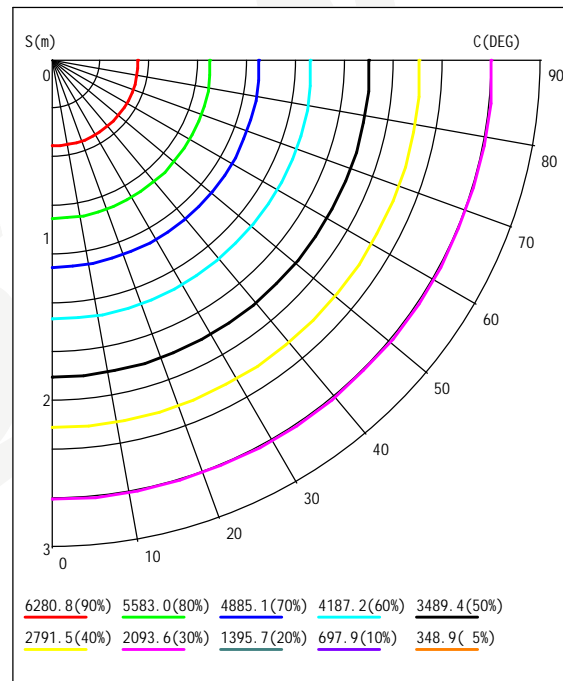
Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

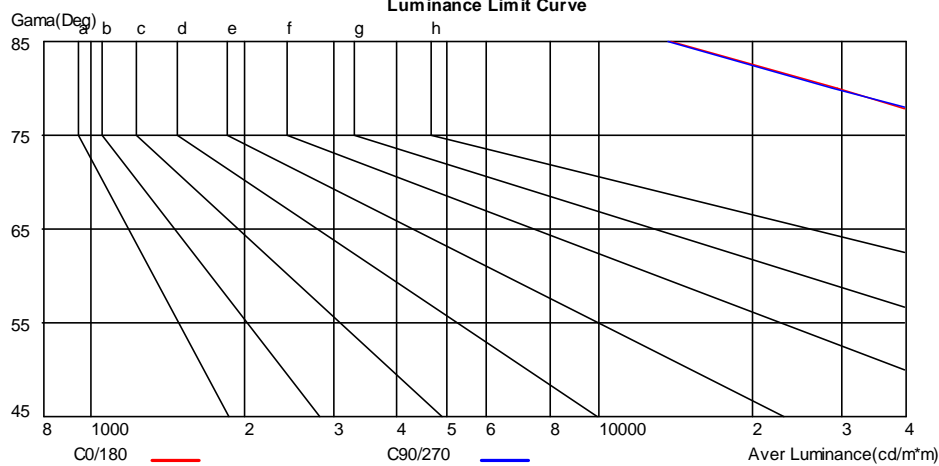
Aver Luminance(cd/m*m)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	493746.1	439396.7	371027.0	279303.9	182174.7	107161.0	58961.2	29516.1	13818.0
C90	469408.2	413512.0	345704.8	262704.2	181445.5	115024.1	64977.4	28824.3	13663.7

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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

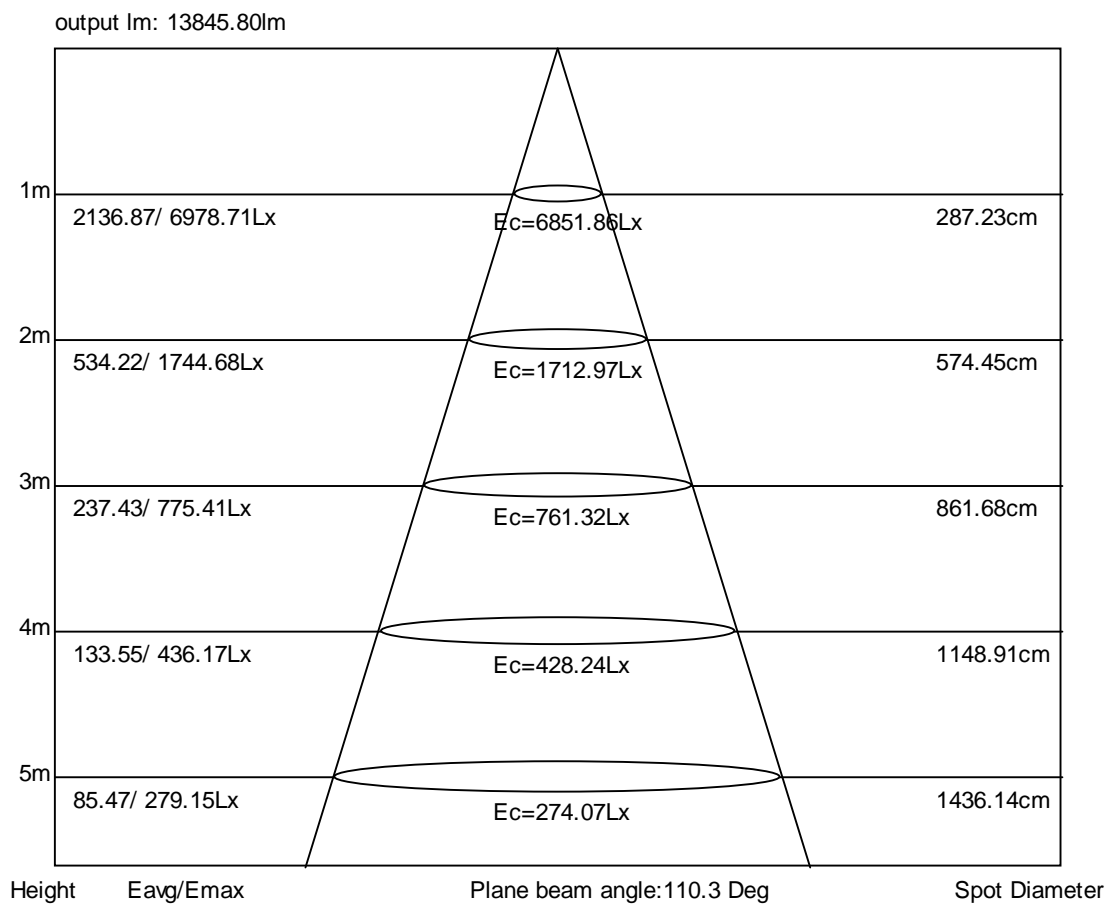
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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

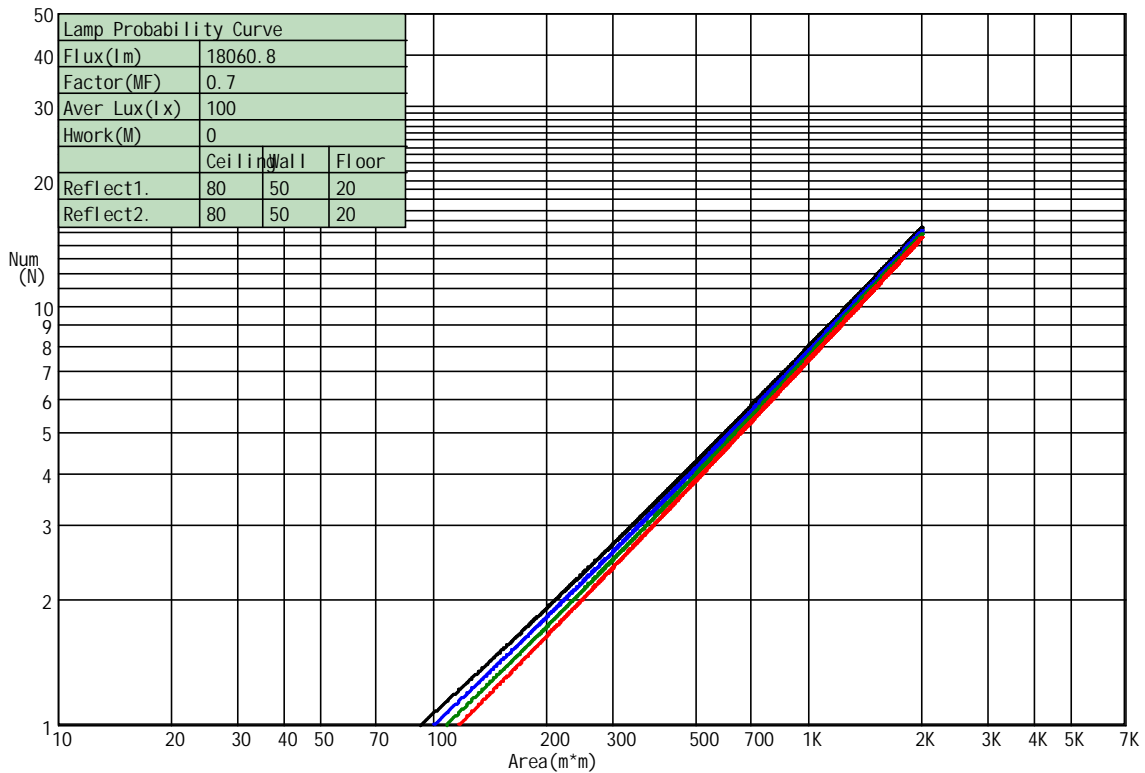
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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: 2026-4-3

Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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	53	40	31	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	47	34	61	45	33	56	42	31
1.50	66	47	34	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	0.58	0.67	0.62	0.57	0.65	0.6	0.56
5	0.66	0.57	0.51	0.65	0.57	0.51	0.63	0.55	0.5	0.61	0.54	0.5	0.59	0.53	0.49
6	0.59	0.51	0.45	0.58	0.5	0.44	0.57	0.49	0.44	0.55	0.48	0.44	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	0.44	0.39	0.49	0.43	0.38
8	0.49	0.41	0.35	0.48	0.41	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	0.32	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

Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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	0.27	0.16	0.05	0.27	0.15	0.05	0.25	0.15	0.05	0.24	0.14	0.04	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	0.24	0.13	0.04	0.23	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: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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	6947	6859	6804	6727	6937	6849	6774	6720	0-5	164	164
10	6889	6804	6709	6663	6870	6769	6717	6626	5-10	486	649
15	6775	6693	6590	6550	6752	6642	6590	6479	10-15	794	1444
20	6594	6533	6416	6387	6555	6447	6400	6325	15-20	1079	2523
25	6380	6308	6199	6182	6327	6206	6181	6099	20-25	1332	3854
30	6118	6033	5917	5920	6052	5918	5907	5808	25-30	1543	5398
35	5793	5730	5573	5590	5716	5549	5551	5455	30-35	1705	7103
40	5391	5348	5167	5210	5294	5138	5127	5048	35-40	1809	8911
45	4937	4893	4694	4763	4817	4622	4633	4529	40-45	1843	10754
50	4394	4341	4135	4201	4250	4010	4010	3875	45-50	1798	12553
55	3710	3694	3457	3530	3528	3226	3209	3053	50-55	1652	14205
60	2793	2885	2627	2688	2593	2280	2270	2117	55-60	1379	15584
65	1822	2000	1814	1857	1721	1465	1449	1339	60-65	1019	16603
70	1072	1255	1150	1205	1056	847	852	784	65-70	676	17279
75	590	714	650	722	590	433	464	427	70-75	410	17689
80	295	374	288	395	290	189	221	209	75-80	222	17911
85	138	178	137	188	122	72.8	89.9	76.1	80-85	106	18017
90	57.9	64.6	72.1	64.3	34	33.9	34.2	34.7	85-90	43.3	18061
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: zxg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 235.3V I: 627.0mA P: 145.40W PF: 0.985 Test LM: 18060.81lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-150BW02	Lamp Spec: LPFL-150BW02	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	6947	6909	6868	6841	6816	6787	6752	6750	6845	6937	6898	6858	6824	6791	6762	6738	6745	6848
10.0	6889	6852	6813	6773	6729	6699	6678	6685	6780	6870	6826	6780	6752	6728	6697	6656	6655	6774
15.0	6775	6739	6702	6659	6612	6581	6563	6572	6664	6752	6704	6654	6625	6601	6565	6515	6512	6645
20.0	6594	6567	6539	6495	6442	6410	6397	6406	6482	6555	6508	6459	6432	6410	6384	6350	6355	6476
25.0	6380	6349	6316	6272	6223	6195	6188	6198	6264	6327	6274	6220	6198	6186	6163	6125	6129	6257
30.0	6118	6081	6043	5995	5942	5917	5919	5935	5994	6052	5993	5933	5914	5909	5885	5840	5842	5982
35.0	5793	5765	5737	5678	5607	5577	5584	5604	5661	5716	5643	5567	5550	5551	5530	5486	5492	5645
40.0	5391	5373	5353	5289	5207	5177	5196	5219	5257	5294	5226	5155	5134	5130	5110	5074	5085	5241
45.0	4937	4918	4898	4828	4738	4709	4740	4769	4794	4817	4732	4644	4626	4630	4610	4563	4574	4759
50.0	4394	4371	4347	4273	4180	4150	4180	4207	4229	4250	4145	4036	4010	4010	3980	3919	3932	4167
55.0	3710	3703	3696	3616	3509	3473	3506	3530	3529	3528	3396	3259	3220	3213	3175	3104	3125	3423
60.0	2793	2833	2875	2801	2684	2640	2668	2678	2635	2593	2456	2314	2277	2272	2236	2167	2191	2497
65.0	1822	1900	1980	1939	1855	1824	1843	1842	1780	1721	1609	1493	1460	1452	1425	1375	1391	1610
70.0	1072	1152	1235	1221	1173	1162	1187	1189	1121	1056	965	870	849	851	837	806	816	946
75.0	590	644	701	693	664	665	698	707	648	590	521	450	443	457	456	439	444	518
80.0	295	330	366	346	307	312	360	383	336	290	246	200	200	214	219	213	219	258
85.0	138	156	174	165	146	148	171	181	151	122	100	78.2	78.4	86.2	86.9	80.6	82.9	111
90.0	57.9	60.8	63.9	67.1	70.4	70.4	66.9	61	47.3	34	33.9	33.9	34	34.1	34.3	34.5	37.2	47.7
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