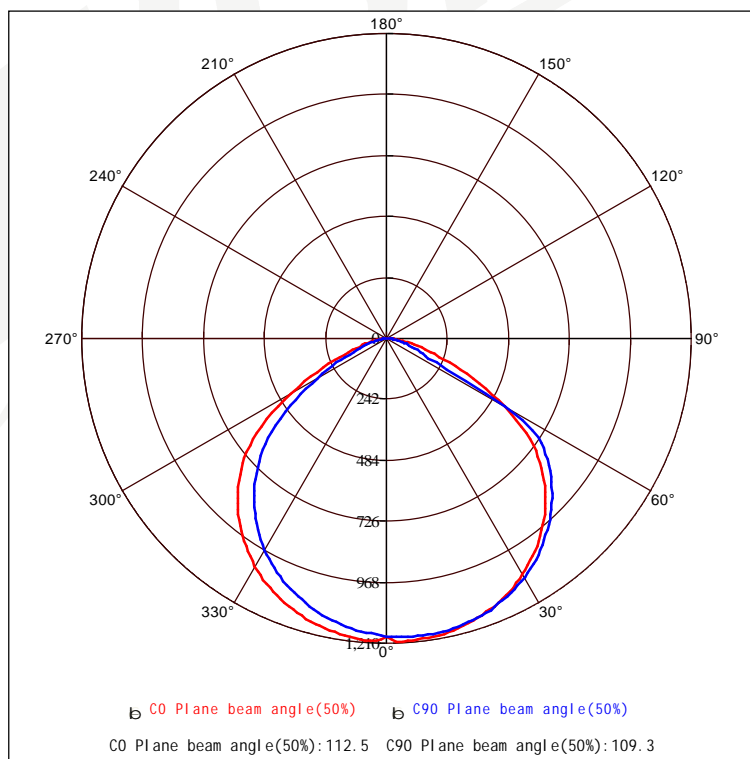


### Goniophotometer Test Report

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPFL-30BW02		Lamp Spec: LPFL-30BW02		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-30BW02		Peak Value(cd)	1205.2	Efficiency(lm/w)	105.7
Nominal P(w)	30.0		Position	0.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	3150.209	Down(C0-C180)	55.3
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)	44.7

### 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

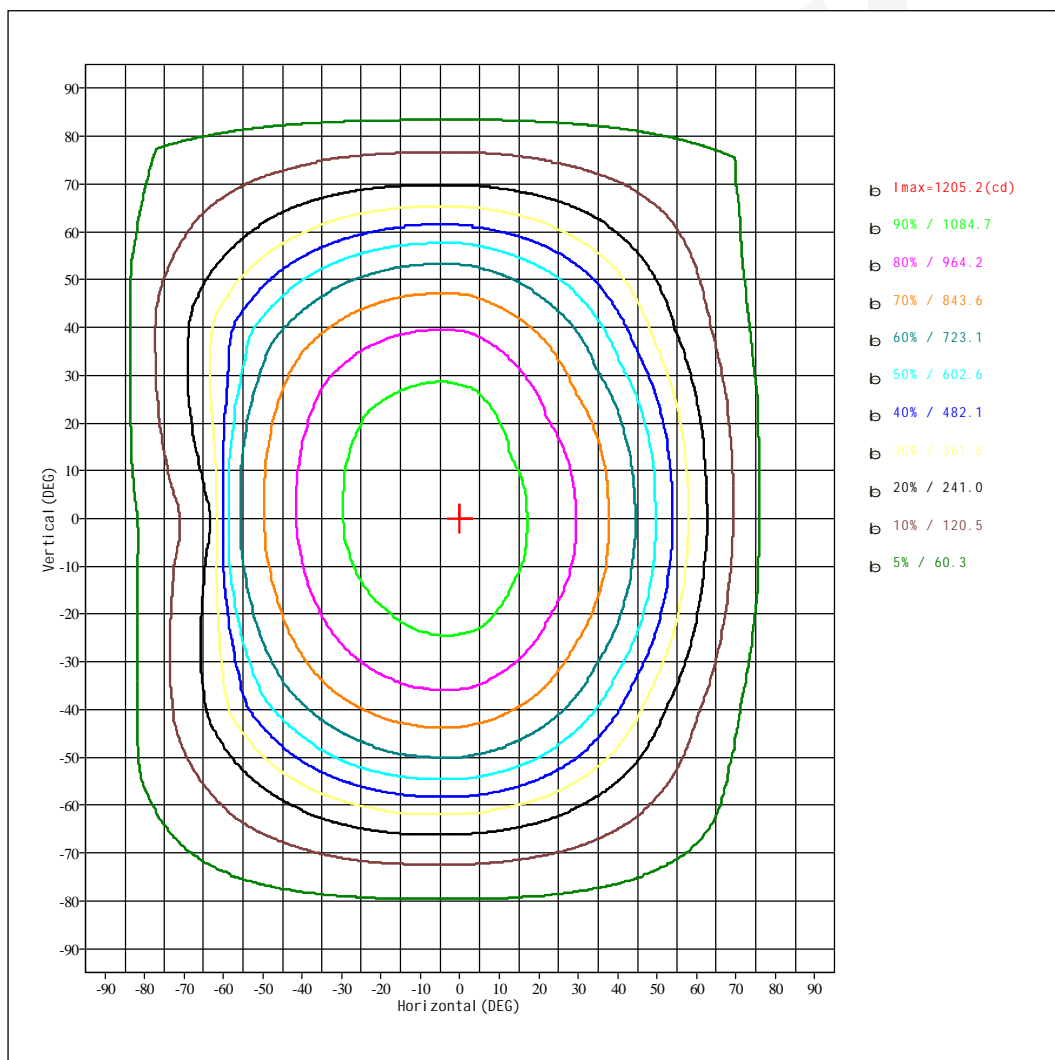
Humidity(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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

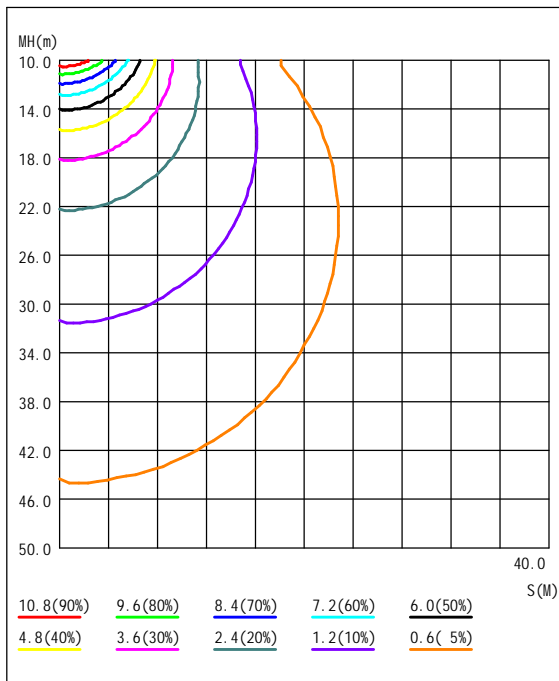
Humi di ty(%): 60

Date: 2026-4-3

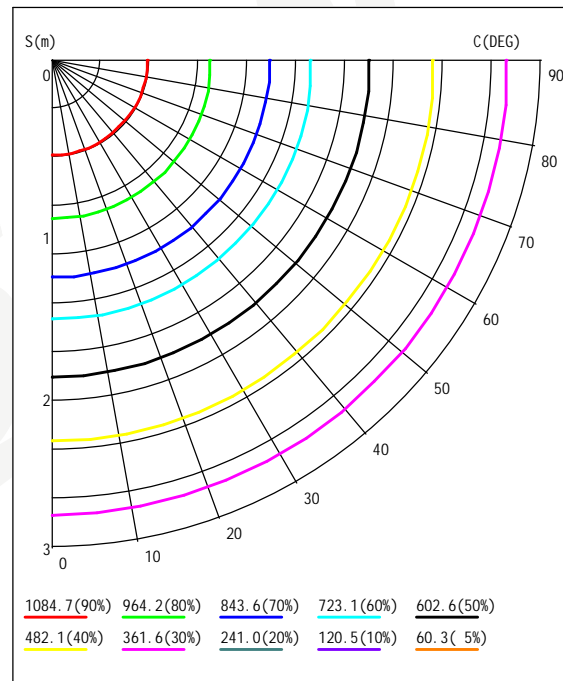
Remark:

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Luminance Limit Curve

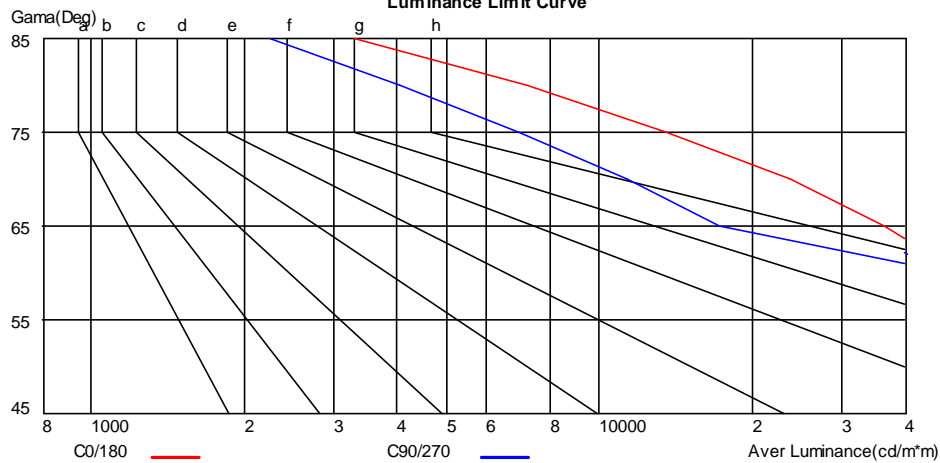
Aver Luminance(cd/m<sup>2</sup>m)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	88364.6	79352.1	68301.1	52622.6	36406.5	23728.7	13540.7	7185.4	3287.9
C90	92160.7	84433.4	75229.2	48639.9	17258.8	11345.0	6973.2	4046.9	2248.1

Glare

Glare	Class	Illuminance(lx)							
		a	b	c	d	e	f	g	h
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

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

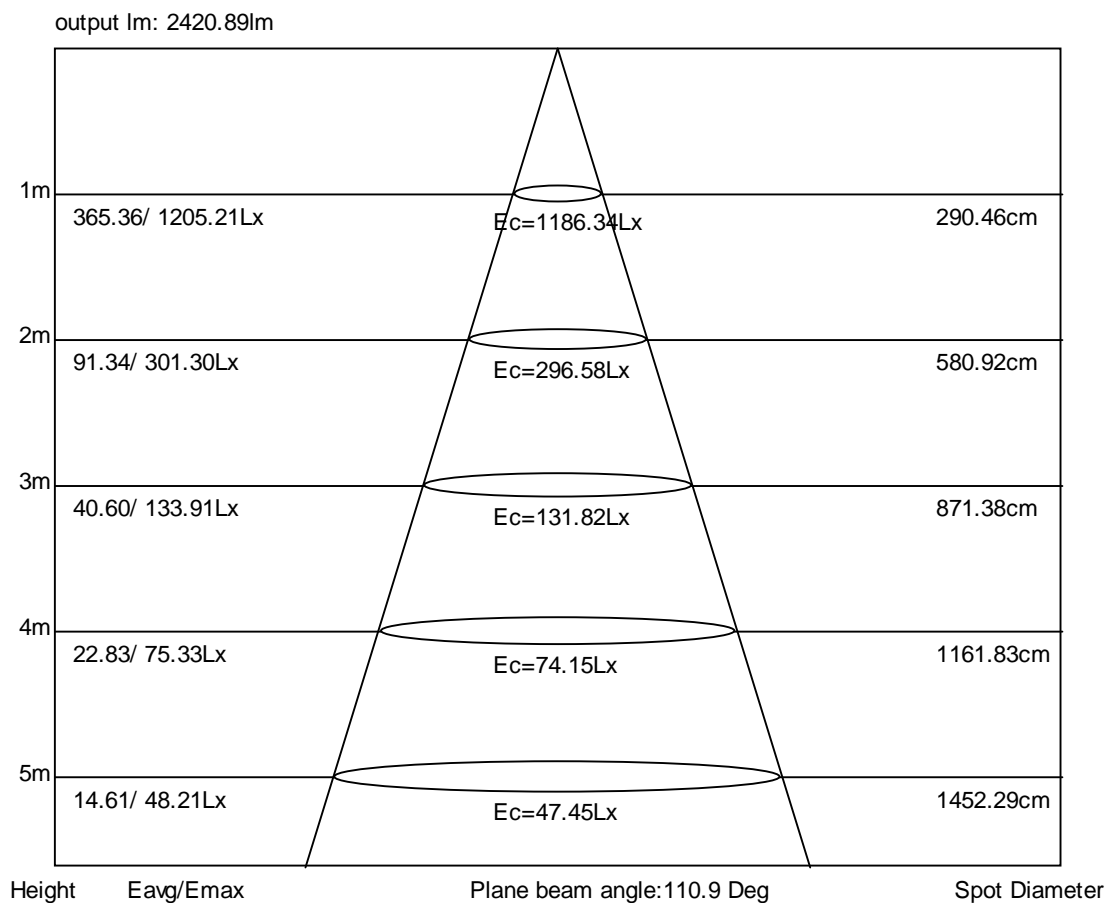
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

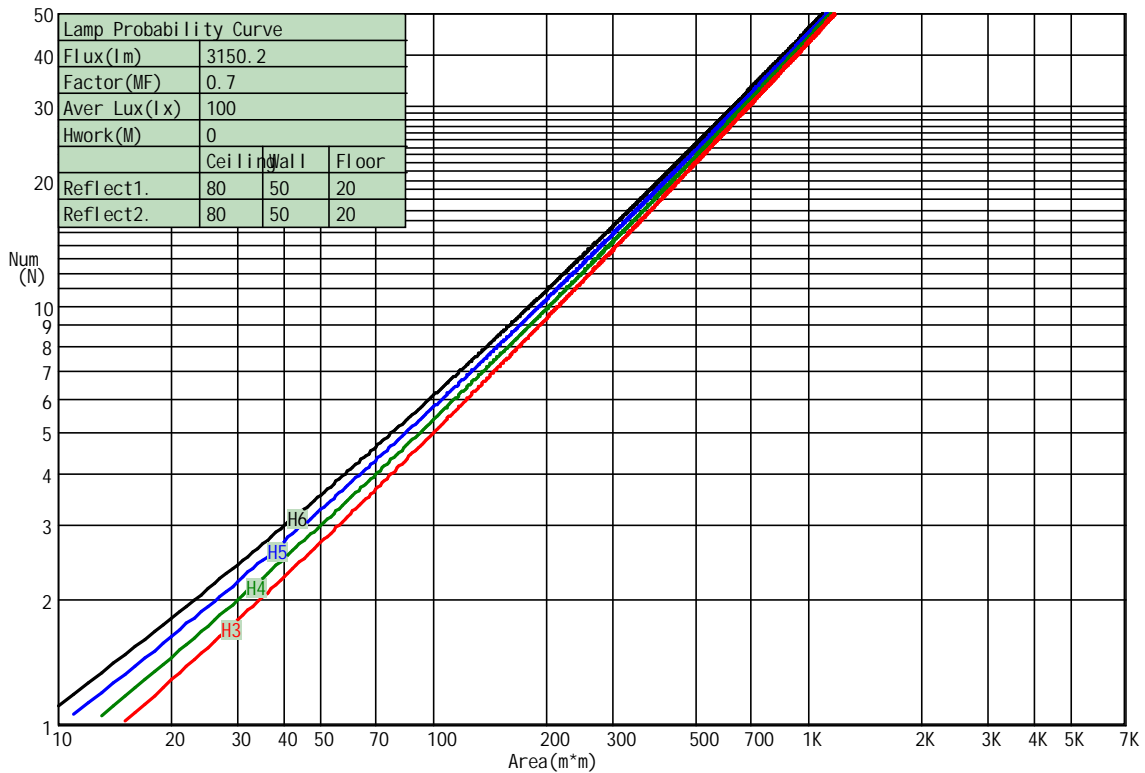
Humi di ty(%): 60

Date: 2026-4-3

Remark:

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.2lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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	44	33	57	43	33	53	41	32
1.00	62	46	34	60	44	33	55	42	32
1.25	65	47	34	62	45	34	56	43	32
1.50	66	48	34	63	46	33	57	43	32
2.00	68	50	35	65	47	34	58	43	31
2.50	69	50	34	65	48	33	58	43	30
3.00	70	51	34	66	48	32	58	43	30
4.00	71	51	33	67	48	32	58	43	29
5.00	72	52	33	67	48	32	58	43	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	0.41	0.34	0.29	0.41	0.34	0.28	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: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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	0.23	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: zyg

Date: 2026-4-3

Distance(m): 7.000

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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	1202	1197	1188	1174	1199	1174	1166	1161	0-5	28.3	28.3
10	1196	1195	1188	1169	1182	1150	1141	1141	5-10	84.2	112
15	1179	1186	1174	1157	1160	1118	1112	1113	10-15	138	250
20	1154	1166	1157	1134	1128	1079	1071	1072	15-20	187	437
25	1122	1137	1129	1103	1088	1030	1020	1025	20-25	231	668
30	1076	1106	1092	1063	1039	968	962	968	25-30	268	936
35	1024	1061	1045	1016	977	899	892	898	30-35	296	1232
40	960	1009	987	955	907	818	809	820	35-40	315	1547
45	884	941	922	885	824	719	713	728	40-45	321	1868
50	794	863	844	801	725	592	600	613	45-50	315	2183
55	683	773	752	703	592	433	449	466	50-55	291	2474
60	526	663	486	576	420	282	305	321	55-60	246	2720
65	364	509	173	409	263	164	188	202	60-65	175	2895
70	237	354	113	260	151	84.4	103	113	65-70	115	3010
75	135	224	69.7	149	80.7	38.7	49.2	56.9	70-75	71	3081
80	71.9	126	40.5	77.7	38	16.8	21.3	25	75-80	39.7	3121
85	32.9	62.1	22.5	36.3	17.1	5.54	6.03	7.21	80-85	19.9	3141
90	18	26.9	14.6	16.1	5.73	5.68	5.66	5.59	85-90	9.24	3150
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: 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: 233.4V I: 211.0mA P: 29.80W PF: 0.603 Test LM: 3150.21lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPFL-30BW02	Lamp Spec: LPFL-30BW02	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	1202	1200	1197	1194	1190	1185	1179	1177	1188	1199	1188	1177	1172	1168	1165	1163	1166	1184
10.0	1196	1195	1195	1192	1189	1184	1175	1171	1176	1182	1168	1154	1147	1143	1141	1141	1147	1172
15.0	1179	1182	1185	1182	1176	1170	1162	1157	1159	1160	1142	1123	1116	1113	1112	1113	1120	1150
20.0	1154	1159	1164	1163	1159	1152	1142	1134	1131	1128	1107	1084	1076	1072	1071	1072	1081	1118
25.0	1122	1129	1136	1135	1131	1123	1112	1102	1095	1088	1063	1036	1026	1022	1021	1024	1036	1080
30.0	1076	1089	1103	1101	1095	1085	1072	1060	1050	1039	1008	976	966	963	963	966	980	1029
35.0	1024	1040	1057	1056	1048	1039	1025	1011	994	977	943	907	897	894	894	896	912	969
40.0	960	981	1004	1002	992	980	966	950	928	907	868	828	815	811	811	817	836	899
45.0	884	909	935	935	926	914	897	878	851	824	778	730	717	714	716	723	745	815
50.0	794	824	855	857	848	835	815	792	758	725	667	606	594	598	603	609	633	715
55.0	683	722	763	766	757	742	719	691	641	592	522	450	438	445	452	460	489	588
60.0	526	586	648	605	525	506	546	559	488	420	360	297	290	300	309	316	343	436
65.0	364	428	493	399	246	224	332	393	327	263	220	175	172	183	191	197	220	293
70.0	237	288	341	275	166	146	212	248	199	151	122	91.7	90.5	98.9	105	110	127	183
75.0	135	174	214	173	103	87	123	141	110	80.7	62.3	43.3	42.1	46.9	50.9	54.4	65.5	101
80.0	71.9	95.4	120	97.6	59.1	48.6	65.5	73.3	55.3	38	28.7	19.2	18.3	20.3	22.1	23.8	30.1	51.3
85.0	32.9	45.7	58.9	49.1	31.1	25.5	31.8	34.2	25.5	17.1	12	6.8	5.7	5.92	6.29	6.82	10	21.6
90.0	18	21.9	25.9	22.9	17.3	15	15.6	14.9	10.3	5.73	5.71	5.68	5.67	5.66	5.64	5.61	6.95	12.6
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