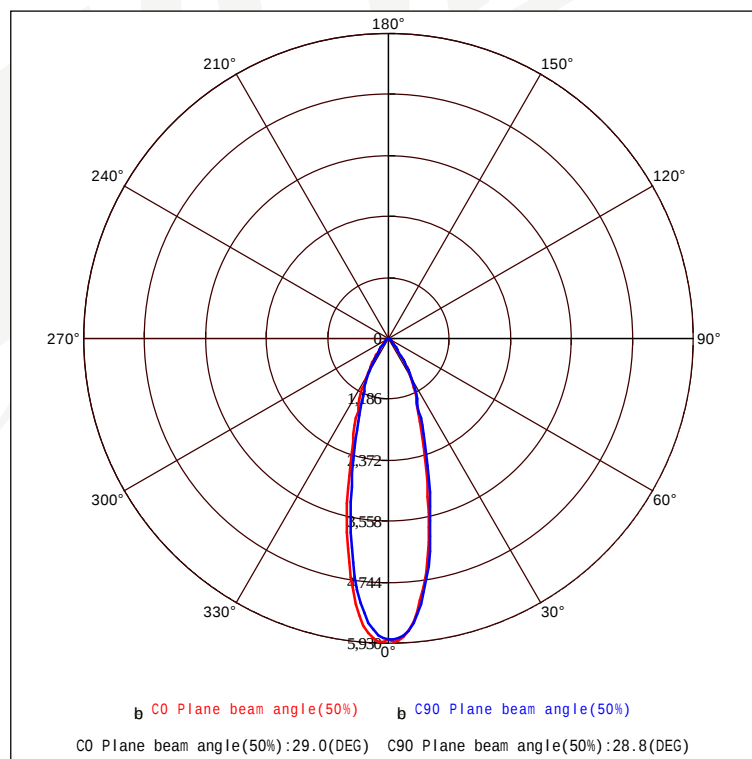


Goniophotometer Test Report

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPCL-30A01-YB			Lamp Spec: LPCL-30A01-YB		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPCL-30A01-YB		Peak Value(cd)	5957.9	Efficiency(lm/w)	78.7
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2171.817	Down(C0-C180)	53.8
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)	46.2

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

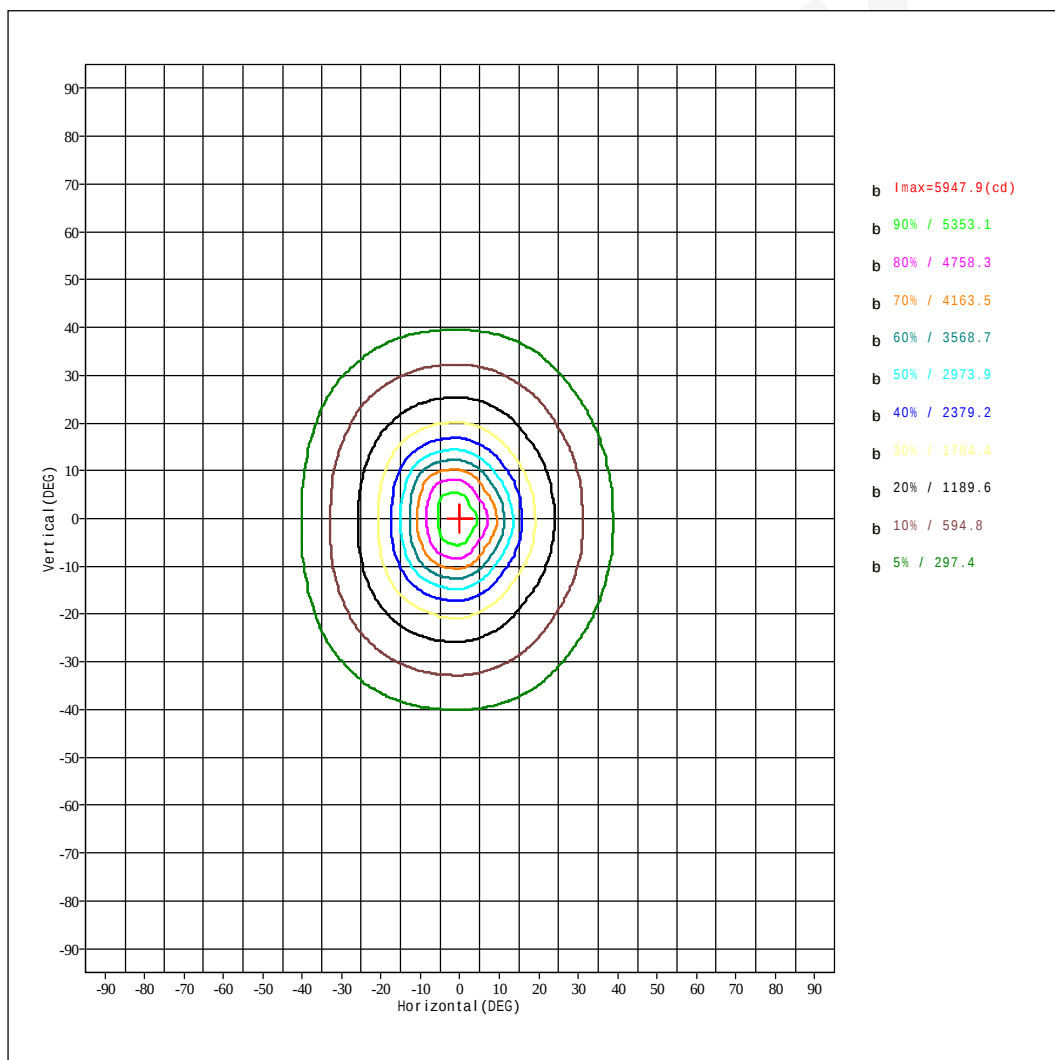
Humidity(%): 60

Date: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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

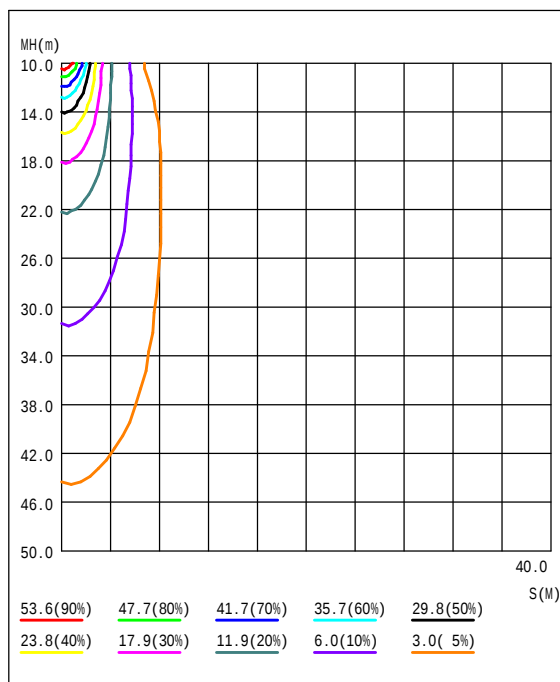
Humidity(%): 60

Date: 2026-7-8

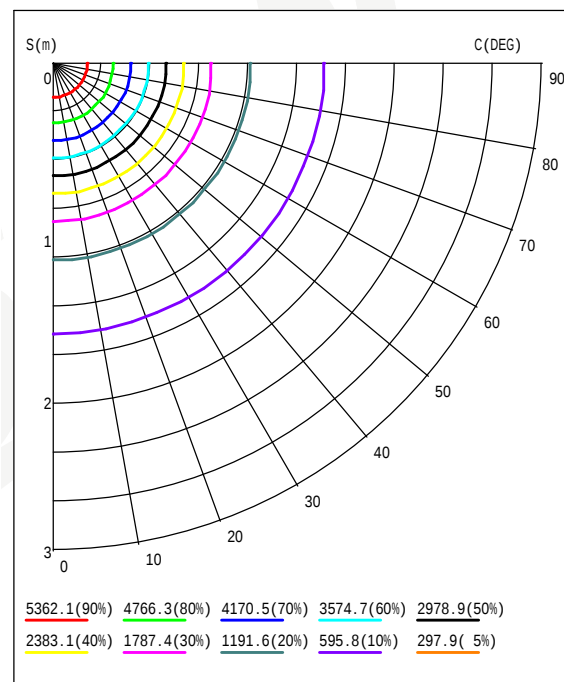
Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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: 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: 2026-7-8

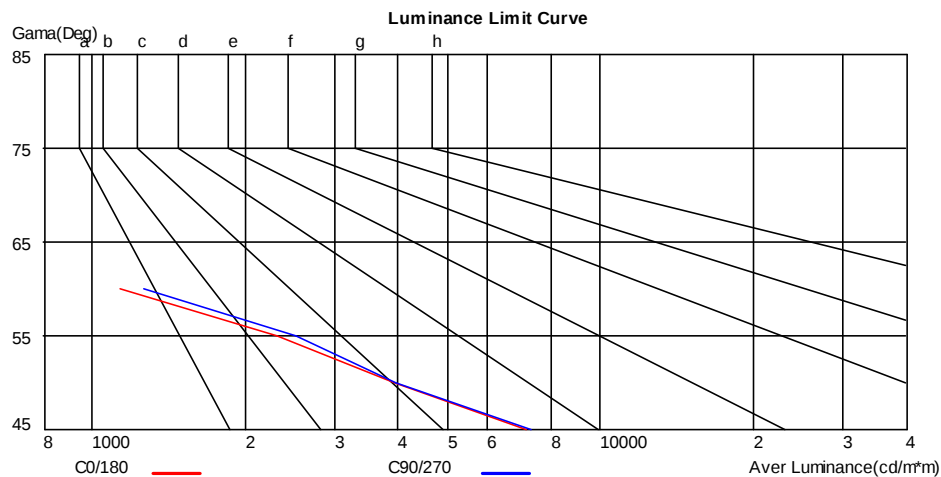
Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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	7138.8	3922.0	2313.3	1133.4	425.3	480.7	515.5	538.5	542.9
C90	7330.9	3965.6	2505.9	1258.8	457.7	487.5	525.3	548.8	557.6

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

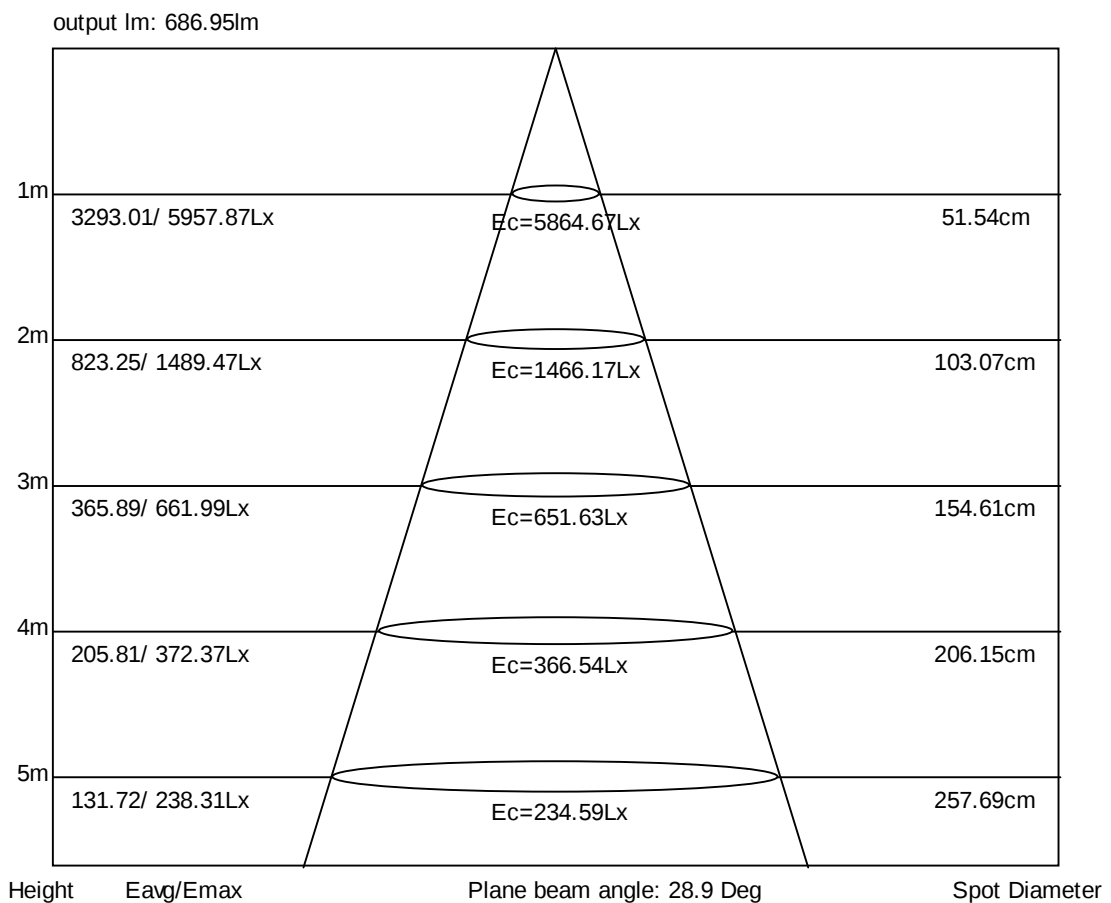
Humidity(%): 60

Date: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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

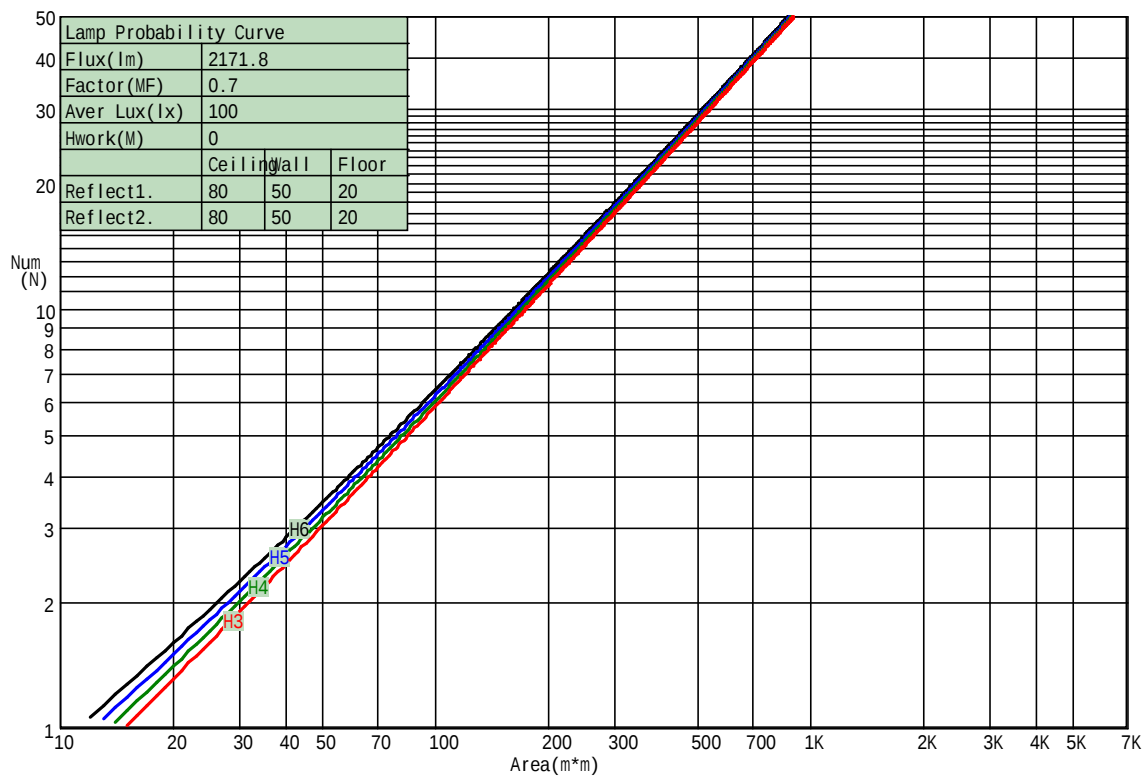
Humidity(%): 60

Date: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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	43	26	15	41	25	15	37	23	14
0.80	48	29	17	45	28	16	41	26	15
1.00	51	32	18	48	30	17	43	28	16
1.25	55	34	19	51	32	18	45	29	17
1.50	57	36	20	54	34	19	47	31	18
2.00	61	39	22	57	37	21	49	33	19
2.50	63	41	24	59	39	22	51	34	20
3.00	65	43	25	60	40	23	52	35	20
4.00	67	45	26	62	42	25	53	37	21
5.00	69	47	27	64	44	26	54	38	22

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	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1	0.99	0.98	0.97	0.96
2	1.05	1.01	0.98	1.03	1	0.97	1	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91
3	0.99	0.95	0.91	0.98	0.94	0.91	0.95	0.92	0.89	0.93	0.9	0.88	0.91	0.88	0.86
4	0.94	0.89	0.85	0.93	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82
5	0.89	0.84	0.8	0.88	0.84	0.8	0.87	0.83	0.79	0.85	0.81	0.79	0.84	0.8	0.78
6	0.85	0.8	0.76	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.78	0.75	0.8	0.77	0.74
7	0.81	0.76	0.72	0.8	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71
8	0.78	0.72	0.69	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.71	0.68
9	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65
10	0.71	0.66	0.63	0.71	0.66	0.63	0.7	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.62

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: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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	0.16	0.09	0.03	0.16	0.09	0.03	0.14	0.08	0.03	0.13	0.08	0.02	0.12	0.07	0.02
2	0.15	0.08	0.03	0.15	0.08	0.02	0.14	0.08	0.02	0.13	0.07	0.02	0.12	0.07	0.02
3	0.14	0.08	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.12	0.07	0.02	0.11	0.06	0.02
4	0.14	0.07	0.02	0.13	0.07	0.02	0.12	0.07	0.02	0.12	0.06	0.02	0.11	0.06	0.02
5	0.13	0.07	0.02	0.12	0.06	0.02	0.12	0.06	0.02	0.11	0.06	0.02	0.11	0.06	0.02
6	0.12	0.06	0.02	0.12	0.06	0.02	0.11	0.06	0.02	0.11	0.06	0.02	0.1	0.05	0.02
7	0.12	0.06	0.02	0.11	0.06	0.02	0.11	0.05	0.02	0.1	0.05	0.02	0.1	0.05	0.02
8	0.11	0.05	0.02	0.11	0.05	0.02	0.1	0.05	0.01	0.1	0.05	0.01	0.1	0.05	0.01
9	0.11	0.05	0.01	0.1	0.05	0.01	0.1	0.05	0.01	0.1	0.05	0.01	0.09	0.05	0.01
10	0.1	0.05	0.01	0.1	0.05	0.01	0.1	0.05	0.01	0.09	0.05	0.01	0.09	0.05	0.01

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	0.15	0.15	0.14	0.13	0.1	0.09	0.09	0.06	0.05	0.05	0.02	0.02	0.02
2	0.15	0.13	0.11	0.13	0.11	0.1	0.09	0.08	0.07	0.05	0.05	0.04	0.02	0.01	0.01
3	0.14	0.11	0.09	0.12	0.1	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
4	0.13	0.1	0.08	0.11	0.09	0.07	0.08	0.06	0.05	0.04	0.03	0.03	0.01	0.01	0.01
5	0.12	0.09	0.06	0.1	0.07	0.05	0.07	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01
6	0.11	0.08	0.05	0.1	0.07	0.05	0.07	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.1	0.07	0.04	0.09	0.06	0.04	0.06	0.04	0.03	0.04	0.02	0.02	0.01	0.01	0.01
8	0.1	0.06	0.04	0.08	0.05	0.03	0.06	0.04	0.02	0.03	0.02	0.01	0.01	0.01	0
9	0.09	0.06	0.03	0.08	0.05	0.03	0.06	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0
10	0.09	0.05	0.03	0.08	0.05	0.03	0.05	0.03	0.02	0.03	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: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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	5444	5656	5494	5570	5521	5146	5278	5072	0-5	135	135
10	4191	4621	4362	4519	4298	3792	3978	3739	5-10	341	475
15	2771	3203	2958	3138	2898	2459	2589	2444	10-15	408	883
20	1790	2042	1899	2047	1890	1573	1658	1586	15-20	370	1253
25	1202	1322	1255	1368	1256	1025	1080	1055	20-25	308	1561
30	782	866	830	913	816	658	695	673	25-30	246	1807
35	383	497	452	537	438	315	365	300	30-35	175	1982
40	150	187	168	193	167	121	140	120	35-40	87.5	2069
45	71.4	84.9	73.3	86.6	74.8	59.1	66.8	57.6	40-45	39.5	2109
50	39.2	45.4	39.7	44.7	41.1	34.7	38.7	33.2	45-50	21.5	2130
55	23.1	27.5	25.1	27.2	25.1	20.4	23.8	19.4	50-55	13.5	2144
60	11.3	15.8	12.6	16	12.9	9.42	11.9	9.09	55-60	8.27	2152
65	4.25	6.19	4.58	6.29	4.64	4.49	4.77	4.66	60-65	3.91	2156
70	4.81	5	4.88	4.88	5.31	5.48	5.61	5.61	65-70	2.49	2159
75	5.15	5.39	5.25	5.25	6.19	6.41	6.48	6.5	70-75	2.89	2161
80	5.39	5.61	5.49	5.46	7.02	7.22	7.27	7.24	75-80	3.26	2165
85	5.43	5.64	5.58	5.53	7.58	7.64	7.73	7.63	80-85	3.53	2168
90	5.37	5.56	5.55	5.43	7.64	7.59	7.69	7.61	85-90	3.61	2172
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: 2026-7-8

Remark:

Measured Para U: 231.4V I: 214.0mA P: 27.60W PF: 0.558 Test LM: 2171.82lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPCL-30A01-YB	Lamp Spec: LPCL-30A01-YB	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	5444	5537	5633	5603	5530	5511	5545	5565	5542	5521	5357	5187	5190	5249	5233	5139	5112	5281
10.0	4191	4379	4574	4536	4419	4396	4468	4495	4395	4298	4077	3847	3853	3938	3926	3818	3789	3994
15.0	2771	2960	3156	3123	3012	2998	3079	3111	3003	2898	2706	2507	2502	2561	2557	2492	2480	2628
20.0	1790	1900	2014	1995	1930	1932	1999	2030	1959	1890	1752	1608	1601	1640	1642	1609	1608	1700
25.0	1202	1254	1308	1300	1270	1280	1331	1355	1305	1256	1155	1050	1043	1068	1075	1063	1071	1138
30.0	782	819	857	854	838	848	886	902	858	816	747	675	670	687	690	680	685	734
35.0	383	433	485	483	462	471	509	526	481	438	384	328	331	354	351	322	309	347
40.0	150	166	183	180	172	173	185	190	179	167	147	126	127	136	136	126	123	136
45.0	71.4	77.3	83.4	81.1	75.8	76.2	82.2	85.3	80	74.8	68	60.8	61.6	65.1	64.8	60.6	59.1	65.3
50.0	39.2	41.9	44.8	43.5	40.9	40.8	43	44.3	42.7	41.1	38.3	35.4	36	37.8	37.5	35	33.9	36.6
55.0	23.1	25	27	26.7	25.6	25.5	26.5	26.9	26	25.1	23.1	20.9	21.5	23	22.8	20.8	19.8	21.5
60.0	11.3	13.3	15.3	14.8	13.3	13.3	14.9	15.7	14.3	12.9	11.4	9.81	10.2	11.3	11.3	10	9.34	10.4
65.0	4.25	5.1	5.98	5.66	4.93	4.95	5.73	6.11	5.36	4.64	4.58	4.51	4.58	4.71	4.75	4.7	4.62	4.43
70.0	4.81	4.89	4.98	4.96	4.9	4.88	4.88	4.93	5.12	5.31	5.38	5.46	5.52	5.58	5.61	5.61	5.52	5.16
75.0	5.15	5.26	5.36	5.34	5.28	5.25	5.25	5.36	5.78	6.19	6.29	6.39	6.43	6.46	6.48	6.49	6.35	5.74
80.0	5.39	5.48	5.58	5.57	5.51	5.48	5.47	5.63	6.34	7.02	7.11	7.2	7.23	7.26	7.26	7.25	7.03	6.2
85.0	5.43	5.52	5.62	5.62	5.59	5.57	5.54	5.75	6.68	7.58	7.61	7.64	7.67	7.71	7.71	7.66	7.39	6.39
90.0	5.37	5.45	5.54	5.56	5.55	5.53	5.47	5.68	6.68	7.64	7.62	7.59	7.62	7.67	7.67	7.64	7.37	6.35
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)

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: 2026-7-8

Remark: