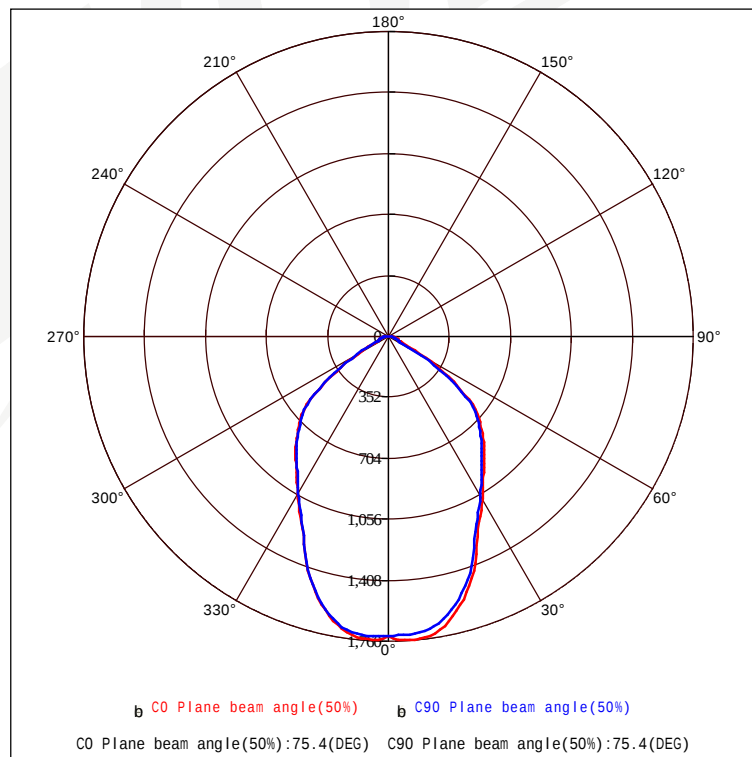


Goniophotometer Test Report

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-30GF01-Y			Lamp Spec: LPDL-30GF01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-30GF01-Y		Peak Value(cd)	1759.3	Efficiency(lm/w)	95.7
Nominal P(w)		1.0	Position	0.0,5.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2812.495	Down(C0-C180)	51.3
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)	48.7

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

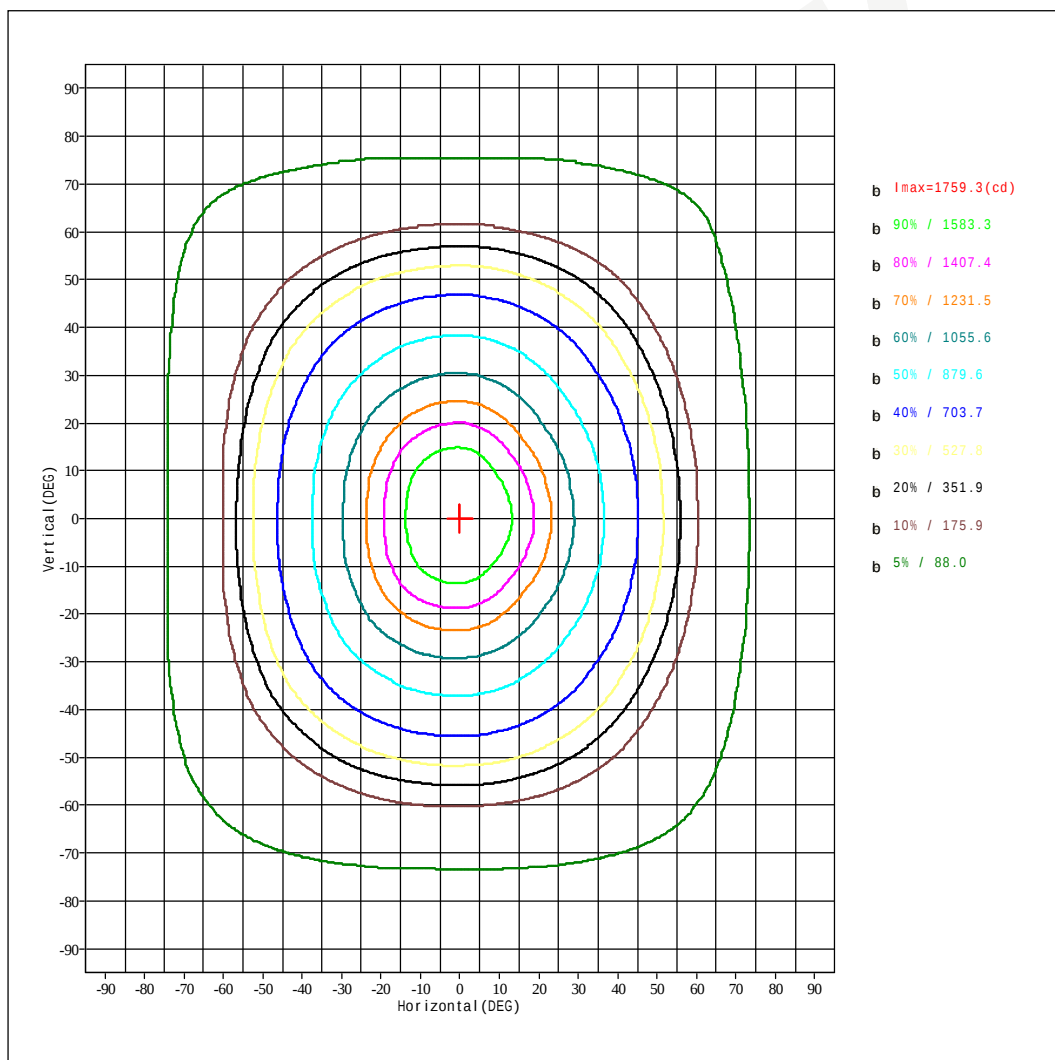
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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

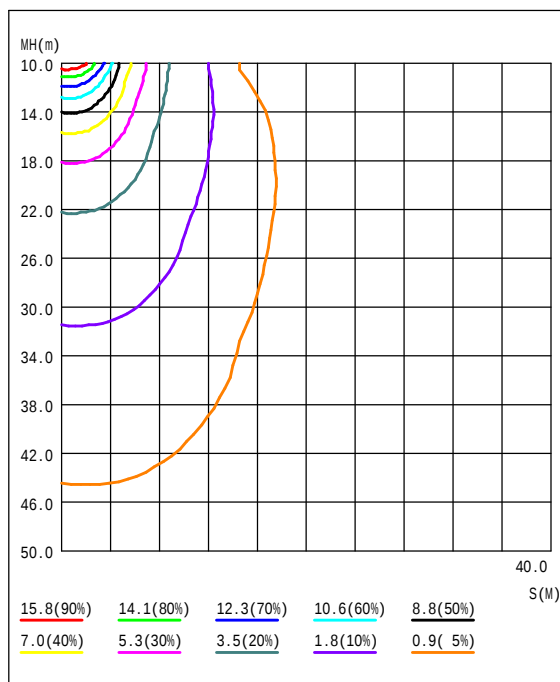
Humidity(%): 60

Date: 2026-1-22

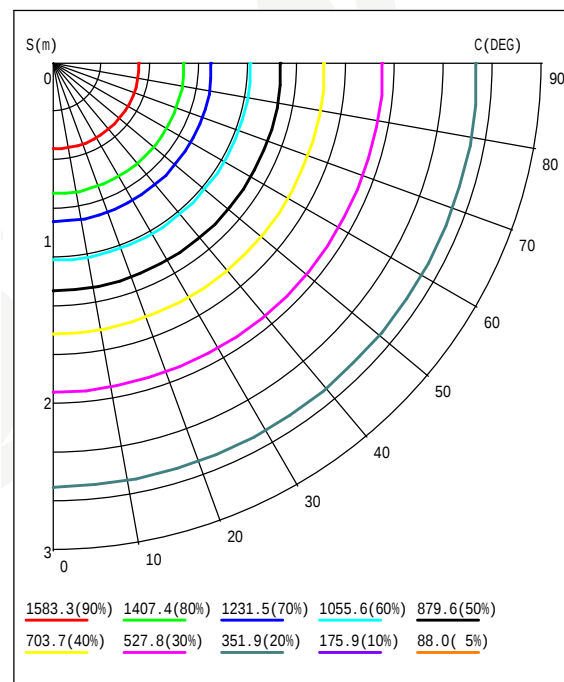
Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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: 2026-1-22

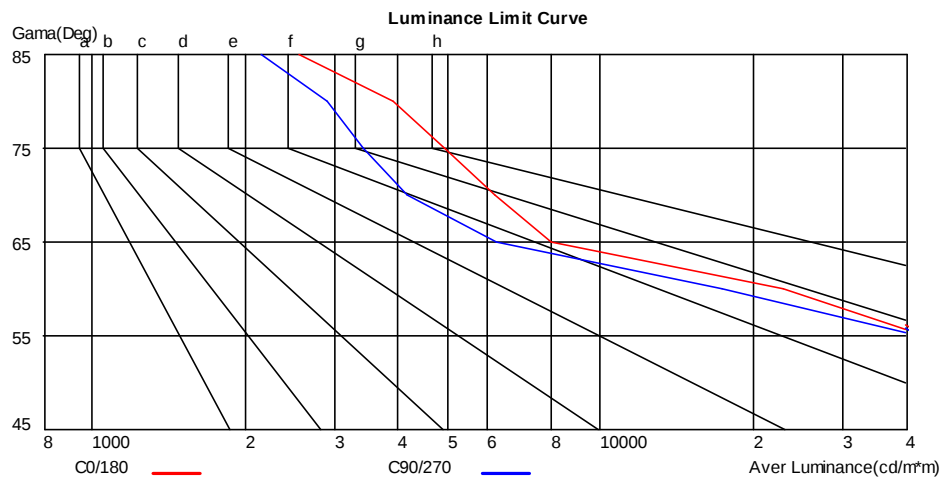
Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	75174.3	64376.2	43972.1	22932.5	8033.5	6221.0	4956.8	3904.3	2549.0
C90	73496.1	62265.8	42450.7	17343.1	6236.2	4169.4	3413.3	2891.0	2157.0

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

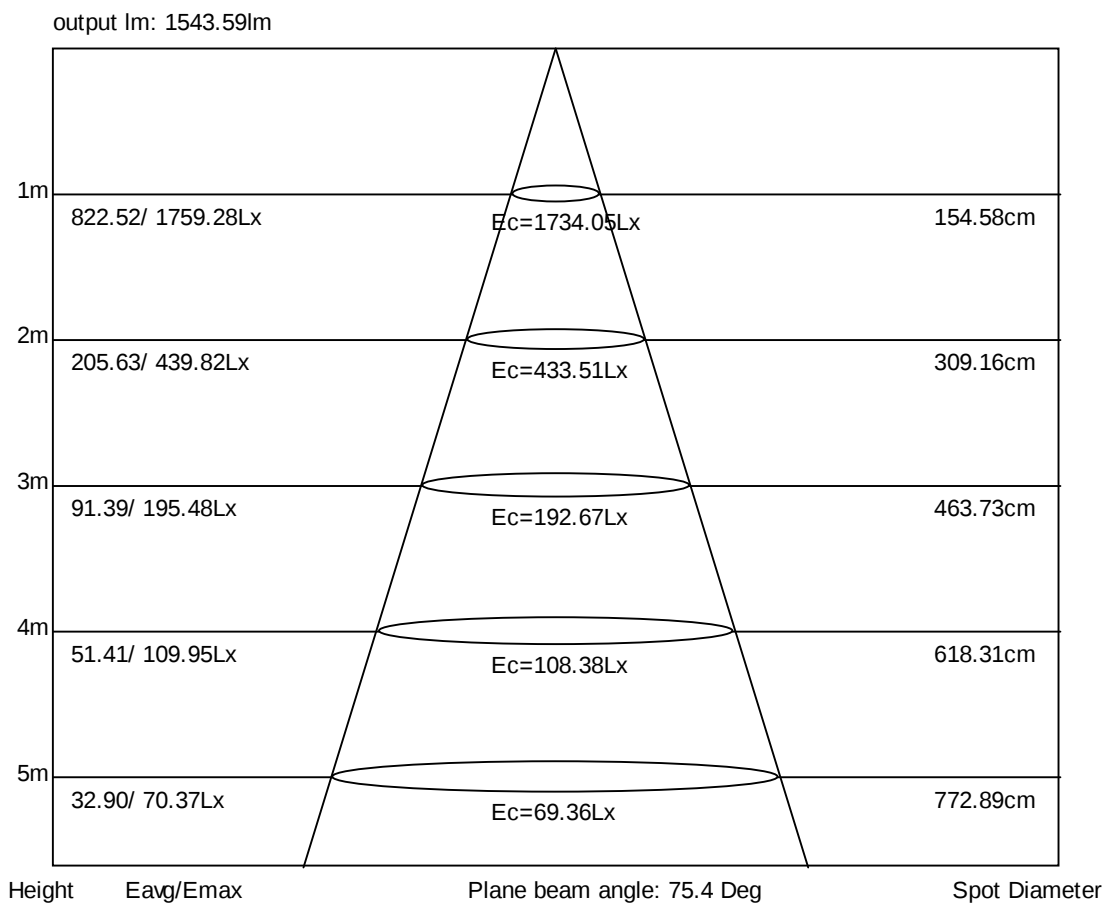
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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

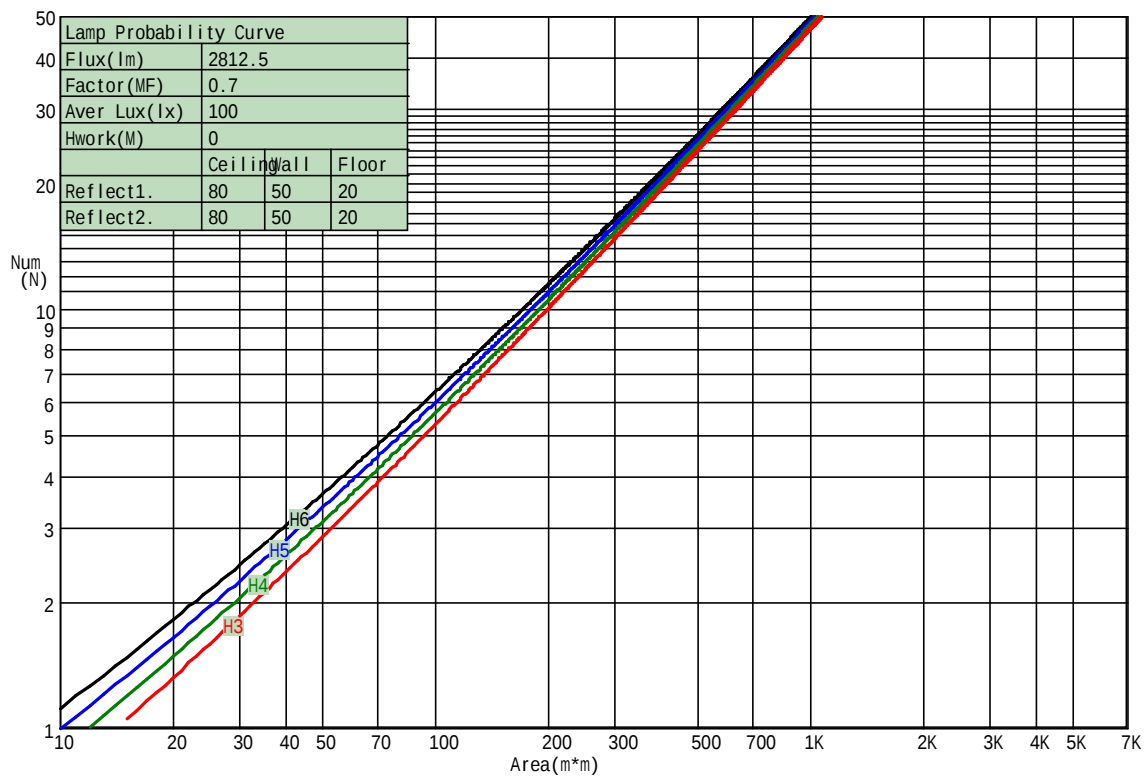
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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	57	43	34	55	42	34	52	41	33
0.80	59	43	33	57	42	32	53	40	31
1.00	61	44	33	59	43	32	54	41	31
1.25	63	45	32	60	43	31	55	40	30
1.50	64	46	32	61	44	31	55	40	29
2.00	67	47	32	63	45	31	56	41	29
2.50	68	48	31	64	45	30	56	41	28
3.00	69	49	32	65	46	30	57	41	27
4.00	70	50	32	66	47	30	57	41	27
5.00	71	51	33	67	48	31	58	42	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	1.08	1.04	1.01	1.05	1.02	1	1.01	0.99	0.96	0.97	0.95	0.94	0.94	0.92	0.91
2	0.97	0.91	0.87	0.95	0.9	0.86	0.92	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.8
3	0.87	0.81	0.75	0.86	0.8	0.75	0.83	0.78	0.73	0.8	0.76	0.72	0.78	0.74	0.71
4	0.79	0.72	0.66	0.78	0.71	0.66	0.75	0.7	0.65	0.73	0.68	0.64	0.71	0.67	0.63
5	0.72	0.64	0.59	0.71	0.64	0.58	0.69	0.63	0.58	0.67	0.61	0.57	0.65	0.6	0.57
6	0.66	0.58	0.52	0.65	0.57	0.52	0.63	0.57	0.52	0.62	0.56	0.51	0.6	0.55	0.51
7	0.6	0.53	0.47	0.6	0.52	0.47	0.58	0.52	0.47	0.57	0.51	0.46	0.55	0.5	0.46
8	0.56	0.48	0.43	0.55	0.48	0.43	0.54	0.47	0.42	0.53	0.47	0.42	0.51	0.46	0.42
9	0.51	0.44	0.39	0.51	0.44	0.39	0.5	0.43	0.39	0.49	0.43	0.39	0.48	0.42	0.39
10	0.48	0.41	0.36	0.47	0.4	0.36	0.46	0.4	0.36	0.46	0.4	0.36	0.45	0.39	0.35

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: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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	0.24	0.14	0.04	0.23	0.13	0.04	0.22	0.13	0.04	0.21	0.12	0.04	0.2	0.11	0.04
2	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04	0.19	0.11	0.03
3	0.22	0.12	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03
4	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
5	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03
6	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.08	0.03
7	0.17	0.09	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
8	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02
9	0.16	0.08	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
10	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02

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	0.18	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	0.16	0.13	0.11	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	0.15	0.11	0.08	0.13	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	0.06	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.14	0.09	0.05	0.12	0.08	0.05	0.08	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.13	0.08	0.04	0.11	0.07	0.04	0.08	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01
7	0.13	0.07	0.04	0.11	0.06	0.03	0.07	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	0.07	0.03	0.1	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.11	0.06	0.03	0.1	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.11	0.06	0.02	0.09	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)

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: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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	1759	1737	1724	1722	1750	1730	1730	1725	0-5	41.5	41.5
10	1714	1701	1672	1685	1684	1649	1672	1657	5-10	122	164
15	1594	1590	1557	1571	1549	1506	1545	1526	10-15	192	356
20	1425	1436	1389	1419	1371	1307	1368	1345	15-20	242	598
25	1208	1215	1184	1207	1172	1133	1164	1144	20-25	266	864
30	1071	1076	1049	1070	1036	999	1028	1014	25-30	281	1145
35	948	949	930	942	919	891	910	898	30-35	288	1433
40	850	849	833	842	824	796	815	804	35-40	291	1724
45	752	750	735	745	726	703	715	706	40-45	288	2012
50	644	653	623	647	598	555	595	573	45-50	274	2286
55	440	463	425	455	386	345	397	367	50-55	223	2508
60	229	250	173	243	183	149	189	165	55-60	140	2648
65	80.3	88.3	62.4	83.8	70.2	67.8	68.5	65.9	60-65	58.4	2707
70	62.2	63.8	41.7	62.1	57	54.9	55.1	54	65-70	32.2	2739
75	49.6	51.1	34.1	50.1	45.3	43.2	44.7	43	70-75	26.4	2765
80	39	40.7	28.9	40.3	35.1	31.7	34.7	32.2	75-80	21.6	2787
85	25.5	27.8	21.6	27.2	21.3	18.2	21.3	19.2	80-85	15.9	2803
90	17.2	15.8	15.8	15.5	13.5	12.7	13.1	12.7	85-90	9.67	2812
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: 2026-1-22

Remark:

Measured Para U: 233.4V I: 212.0mA P: 29.40W PF: 0.595 Test LM: 2812.49lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GF01-Y	Lamp Spec: LPDL-30GF01-Y	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	1759	1749	1739	1732	1727	1723	1722	1725	1737	1750	1741	1732	1730	1730	1729	1727	1729	1744
10.0	1714	1708	1702	1692	1679	1675	1681	1684	1684	1684	1669	1653	1656	1667	1668	1662	1663	1689
15.0	1594	1592	1590	1579	1564	1560	1567	1569	1558	1549	1530	1510	1518	1536	1541	1532	1534	1564
20.0	1425	1430	1435	1420	1399	1395	1409	1413	1392	1371	1343	1314	1327	1355	1363	1353	1354	1390
25.0	1208	1211	1214	1205	1191	1189	1200	1204	1187	1172	1155	1137	1143	1157	1160	1151	1151	1180
30.0	1071	1073	1076	1067	1055	1054	1063	1067	1051	1036	1020	1003	1008	1022	1025	1018	1020	1046
35.0	948	949	949	943	934	933	938	939	929	919	907	894	897	906	907	902	903	926
40.0	850	850	849	844	837	835	839	840	832	824	812	799	803	811	813	807	809	830
45.0	752	751	750	745	738	737	742	743	734	726	716	706	707	713	713	709	711	732
50.0	644	648	652	643	629	628	639	642	619	598	579	559	568	586	590	580	581	613
55.0	440	450	460	450	433	431	445	448	416	386	368	350	362	385	390	377	375	408
60.0	229	238	247	225	190	189	220	236	209	183	168	153	162	180	184	173	172	201
65.0	80.3	83.8	87.4	79.8	68	67.1	76.8	82.3	76.1	70.2	69.1	68.1	68.1	68.4	68	66.8	67.5	74
70.0	62.2	62.9	63.6	56.5	46.5	46.2	55.4	61.6	59.2	57	56.1	55.2	55	55.1	54.9	54.4	54.9	58.6
75.0	49.6	50.3	51	45.6	37.9	37.6	44.9	49.6	47.4	45.3	44.4	43.5	43.7	44.4	44.3	43.5	43.7	46.7
80.0	39	39.8	40.5	36.9	31.5	31.4	36.6	39.7	37.4	35.1	33.6	32.1	32.7	34.1	34.1	33	32.9	36
85.0	25.5	26.5	27.6	25.8	22.9	22.8	25.3	26.5	23.9	21.3	19.9	18.5	19.2	20.6	20.8	19.9	19.9	22.7
90.0	17.2	16.6	16	15.8	15.8	15.8	15.6	15.3	14.3	13.5	13.1	12.8	12.8	13	13	12.8	13.2	15.2
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: 2026-1-22

Remark: