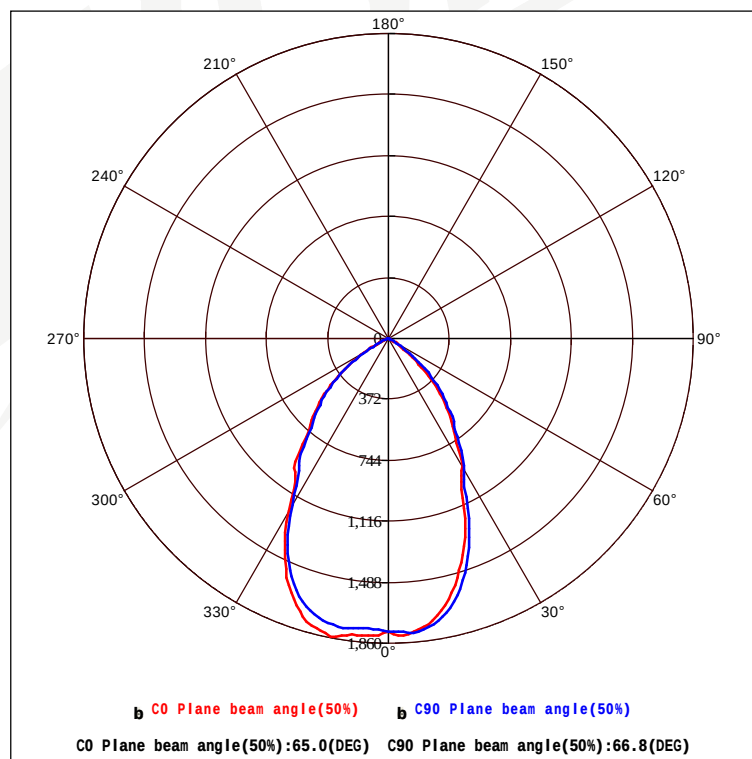


Goniophotometer Test Report

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-30GT01-Y			Lamp Spec: LPDL-30GT01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-30GT01-Y		Peak Value(cd)	1855.5	Efficiency(lm/w)	81.4
Nominal P(w)		30.0	Position	180.0,10.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2345.299	Down(C0-C180)	47.7
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)	52.3

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

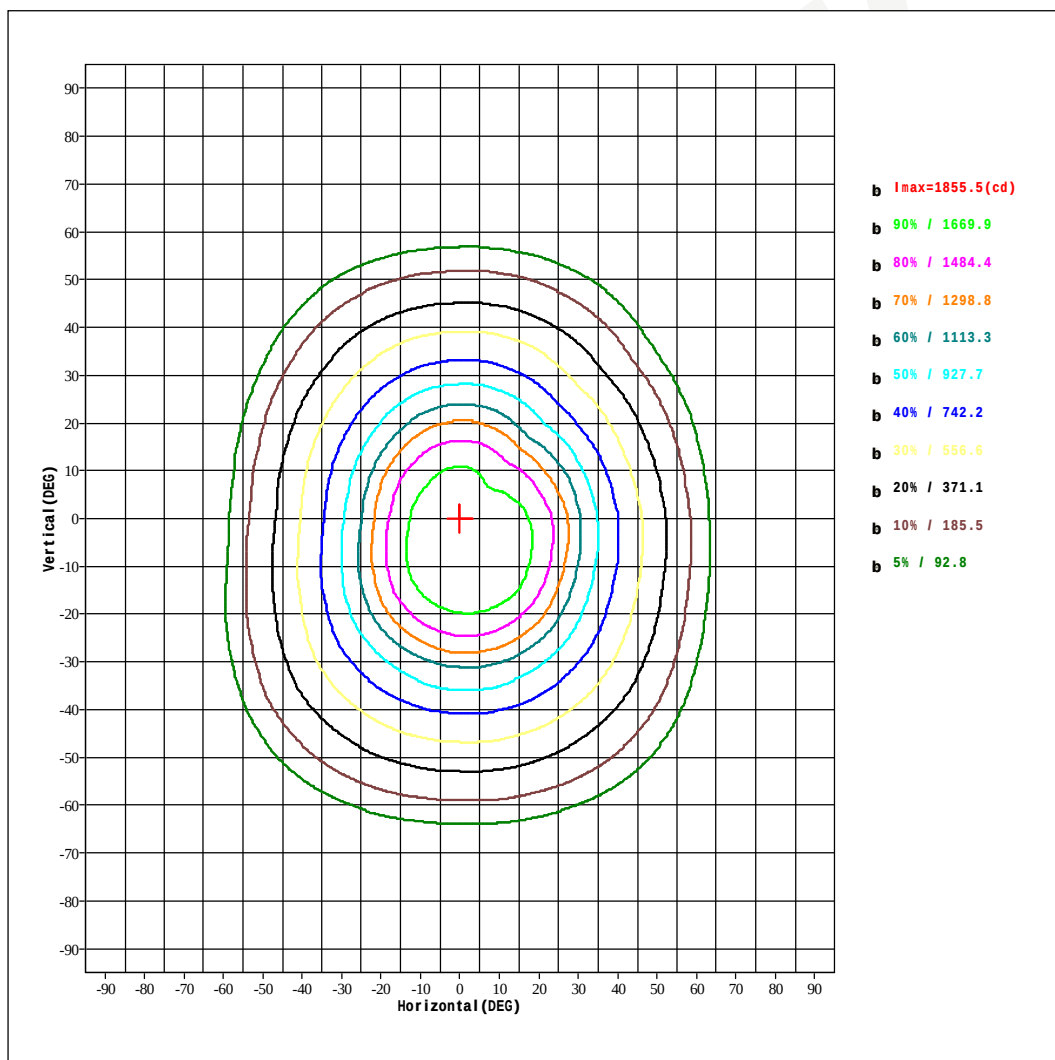
Humidity(%): 60

Date: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

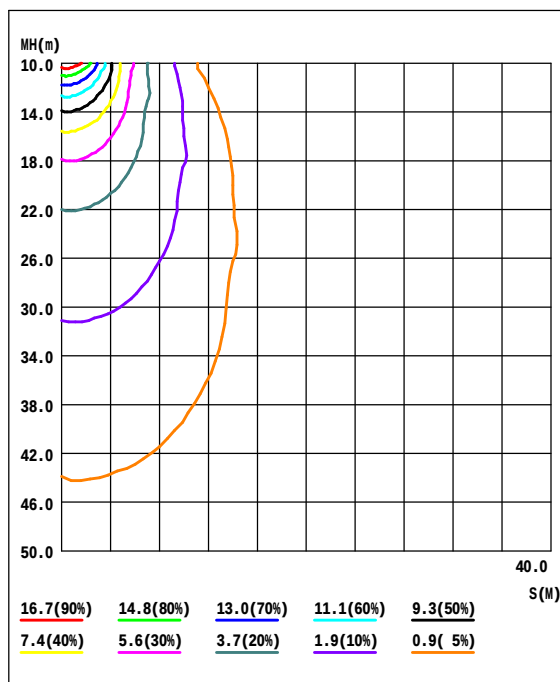
Humidity(%): 60

Date: 2026-3-24

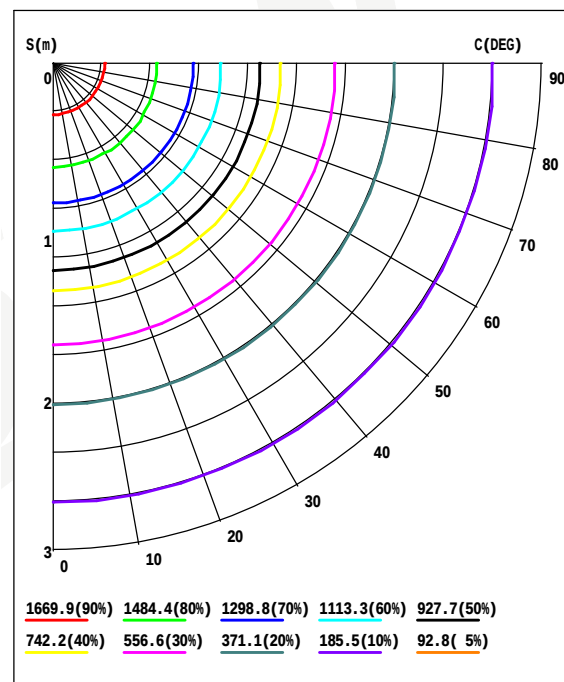
Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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: 2026-3-24

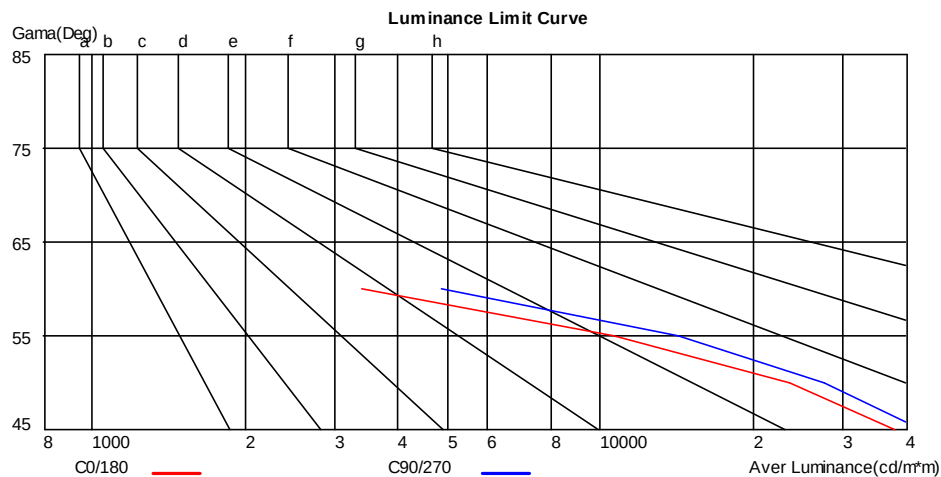
Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-Y	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

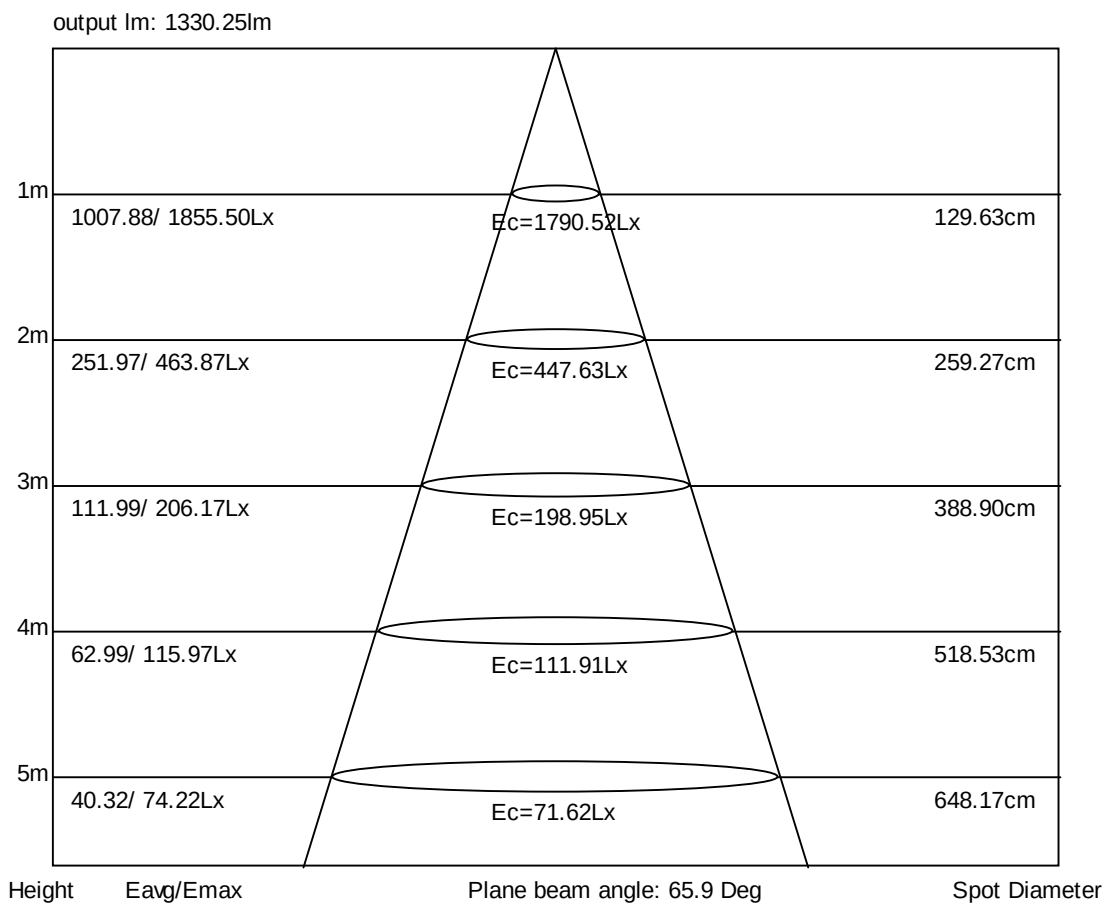
Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	38079.9	23616.5	10656.5	3398.6	538.5	560.1	581.1	599.8	611.0
C90	42787.3	27655.6	14300.6	4886.8	571.3	581.1	598.8	614.9	630.1

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: 2026-3-24
Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

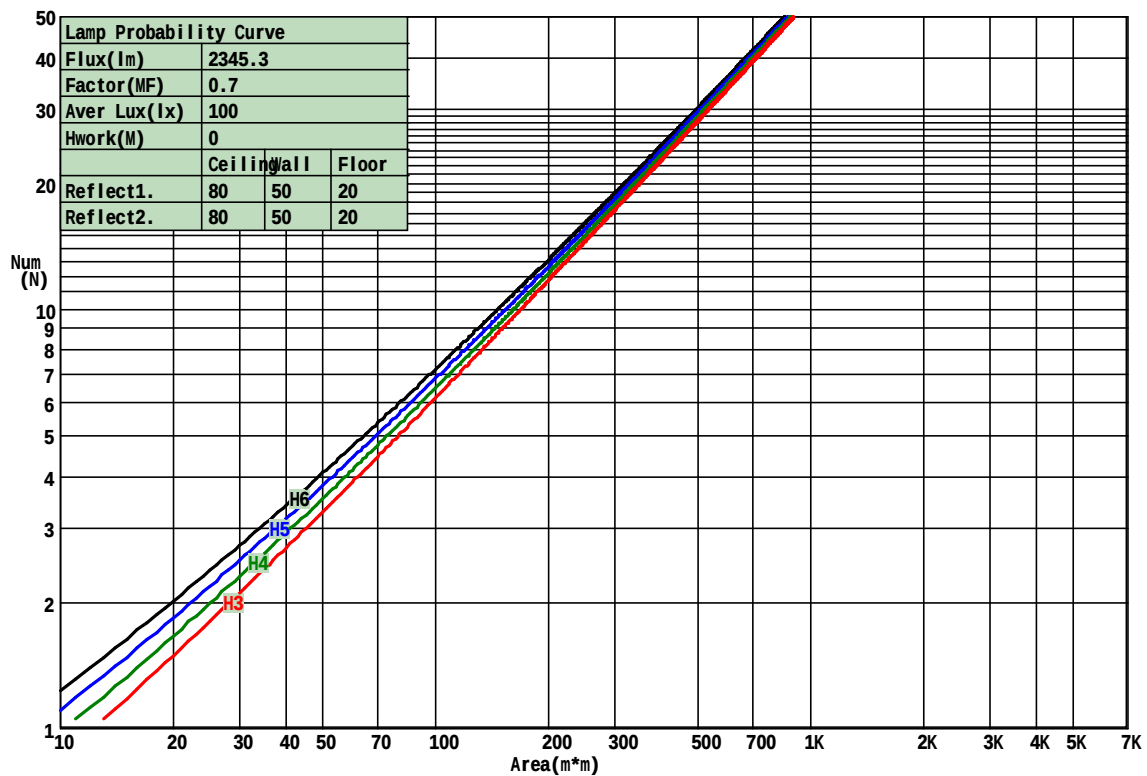
Humidity(%): 60

Date: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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	53	38	28	51	37	28	48	36	27
0.80	55	38	27	53	37	27	49	35	26
1.00	57	39	27	55	38	26	50	36	25
1.25	59	40	27	56	39	26	51	36	24
1.50	61	41	27	58	40	26	51	36	24
2.00	64	44	27	60	41	26	53	37	24
2.50	66	45	28	61	42	26	54	37	24
3.00	67	46	28	63	43	27	54	38	24
4.00	69	48	29	64	45	28	56	39	25
5.00	70	49	30	65	46	29	56	40	25

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	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	0.99	0.99	0.97	0.96	0.96	0.94	0.93
2	1	0.95	0.91	0.98	0.94	0.9	0.95	0.91	0.88	0.92	0.89	0.86	0.89	0.86	0.84
3	0.91	0.85	0.81	0.9	0.84	0.8	0.87	0.82	0.79	0.85	0.81	0.77	0.82	0.79	0.76
4	0.84	0.77	0.72	0.82	0.76	0.72	0.8	0.75	0.71	0.78	0.74	0.7	0.76	0.72	0.69
5	0.77	0.7	0.65	0.76	0.69	0.65	0.74	0.68	0.64	0.72	0.67	0.63	0.71	0.66	0.63
6	0.71	0.64	0.59	0.7	0.64	0.59	0.69	0.63	0.58	0.67	0.62	0.58	0.66	0.61	0.57
7	0.66	0.59	0.54	0.65	0.58	0.54	0.64	0.58	0.53	0.62	0.57	0.53	0.61	0.56	0.53
8	0.61	0.54	0.49	0.61	0.54	0.49	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49
9	0.57	0.5	0.46	0.56	0.5	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.54	0.49	0.45
10	0.53	0.47	0.42	0.53	0.46	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.5	0.45	0.42

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: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm															
Lamp Name: LED DOWN LIGHT								Lamp Type:				Weight(kg):			
Lamp ID: LPDL-30GT01-Y								Lamp Spec: LPDL-30GT01-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	0.21	0.12	0.04	0.2	0.11	0.04	0.19	0.11	0.03	0.18	0.1	0.03	0.17	0.1	0.03
2	0.2	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.17	0.09	0.03
3	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.17	0.09	0.03	0.16	0.09	0.03
4	0.18	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.16	0.09	0.03
5	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.16	0.08	0.02	0.15	0.08	0.02
6	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02
7	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.14	0.07	0.02	0.14	0.07	0.02
8	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
9	0.14	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.07	0.02
10	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	0.02	0.13	0.06	0.02	0.12	0.06	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	0.17	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	0.09	0.08	0.07	0.05	0.05	0.04	0.02	0.01	0.01
3	0.15	0.11	0.09	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	0.14	0.1	0.07	0.12	0.09	0.06	0.08	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.13	0.09	0.06	0.11	0.08	0.05	0.08	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01
6	0.13	0.08	0.05	0.11	0.07	0.04	0.07	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.12	0.07	0.04	0.1	0.06	0.03	0.07	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.11	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	0.09	0.05	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.1	0.06	0.03	0.09	0.05	0.02	0.06	0.03	0.02	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: 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: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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	1794	1791	1801	1784	1820	1793	1772	1752	0-5	42.8	42.8
10	1709	1697	1745	1804	1855	1836	1782	1678	5-10	127	170
15	1542	1544	1608	1742	1808	1818	1737	1547	10-15	204	374
20	1328	1330	1390	1597	1678	1705	1619	1348	15-20	261	635
25	1046	1036	1109	1372	1464	1502	1423	1062	20-25	289	924
30	886	884	918	1093	1184	1243	1140	909	25-30	287	1211
35	676	674	715	927	990	962	943	695	30-35	268	1479
40	540	536	570	715	759	788	734	560	35-40	246	1725
45	381	384	428	576	617	631	594	405	40-45	213	1938
50	236	231	277	432	469	483	447	250	45-50	172	2110
55	107	107	143	280	306	324	282	120	50-55	121	2231
60	34	32.5	48.9	140	156	176	141	37.9	55-60	68.6	2299
65	5.39	5.9	5.71	45.5	55.5	64.8	45.2	3.51	60-65	27.7	2327
70	5.6	5.96	5.81	5.99	4.69	6.79	4.03	3.69	65-70	7.71	2335
75	5.81	6.08	5.99	5.96	3.38	3.38	3.92	3.92	70-75	2.51	2337
80	6	6.19	6.15	6.05	3.61	3.65	4.06	4.17	75-80	2.62	2340
85	6.11	6.29	6.3	6.17	3.87	3.92	4.23	4.39	80-85	2.76	2342
90	6.21	6.32	6.38	6.29	4.1	4.12	4.38	4.61	85-90	2.87	2345
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: 2026-3-24

Remark:

Measured Para U: 227.5V I: 230.0mA P: 28.80W PF: 0.550 Test LM: 2345.30lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30GT01-Y	Lamp Spec: LPDL-30GT01-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	1794	1793	1792	1795	1799	1797	1790	1788	1804	1820	1808	1796	1786	1776	1767	1758	1757	1776
10.0	1709	1704	1699	1713	1734	1757	1784	1809	1833	1855	1847	1838	1818	1794	1759	1712	1681	1695
15.0	1542	1543	1544	1565	1594	1637	1698	1749	1779	1808	1813	1817	1792	1755	1695	1609	1546	1544
20.0	1328	1329	1329	1349	1377	1435	1529	1606	1642	1678	1690	1702	1677	1638	1559	1437	1346	1337
25.0	1046	1042	1037	1060	1093	1167	1286	1382	1424	1464	1480	1497	1476	1440	1344	1180	1060	1053
30.0	886	885	884	895	910	956	1035	1103	1144	1184	1209	1236	1209	1163	1090	985	906	896
35.0	676	675	674	687	706	761	857	934	962	990	978	965	956	947	889	776	693	684
40.0	540	538	536	547	562	601	667	719	740	759	772	785	770	746	696	617	558	549
45.0	381	382	383	398	418	460	527	580	599	617	623	630	619	602	553	467	402	391
50.0	236	234	231	246	266	311	381	436	453	469	475	481	471	455	404	315	249	242
55.0	107	107	107	119	135	173	235	283	294	306	314	322	310	291	246	173	118	112
60.0	34	33.3	32.6	37.9	45.3	68.8	110	142	149	156	164	173	164	149	119	71.8	37.4	35.7
65.0	5.39	5.61	5.85	5.84	5.76	14.4	32.4	46.6	51.2	55.5	59.6	63.8	58.4	49.5	36.1	17.2	3.71	4.56
70.0	5.6	5.76	5.92	5.91	5.84	5.85	5.93	5.85	5.26	4.69	5.61	6.56	5.88	4.63	3.95	3.8	3.9	4.76
75.0	5.81	5.93	6.05	6.05	6.01	5.98	5.97	5.68	4.51	3.38	3.38	3.38	3.55	3.8	3.92	3.92	4.12	4.98
80.0	6	6.08	6.17	6.18	6.16	6.13	6.08	5.78	4.68	3.61	3.63	3.65	3.78	3.97	4.08	4.14	4.37	5.2
85.0	6.11	6.19	6.27	6.29	6.3	6.27	6.21	5.92	4.87	3.87	3.89	3.92	4.03	4.17	4.27	4.34	4.58	5.36
90.0	6.21	6.26	6.3	6.34	6.37	6.36	6.32	6.05	5.06	4.1	4.11	4.12	4.21	4.32	4.43	4.53	4.78	5.51
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: 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: 2026-3-24

Remark: