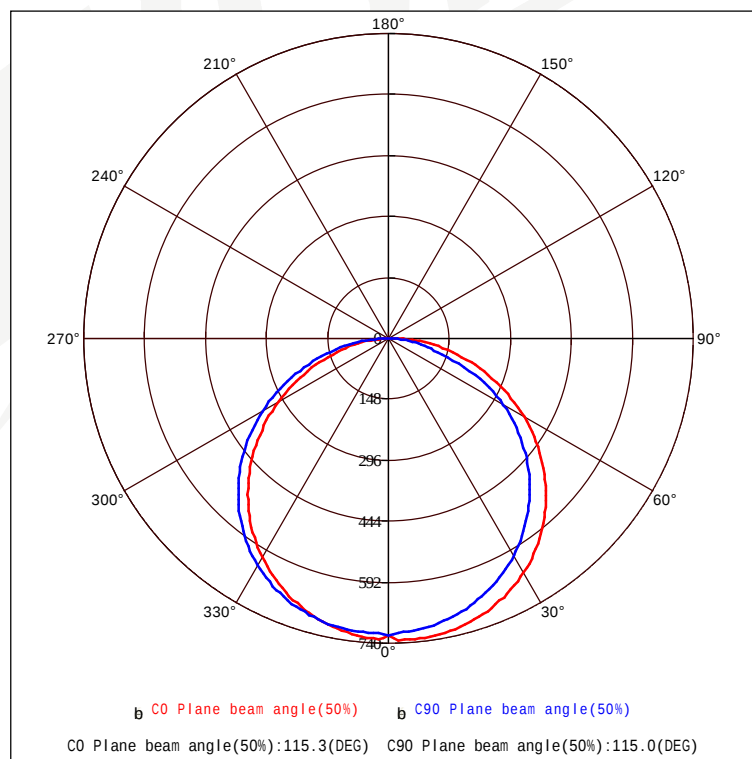


Goniophotometer Test Report

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-30MW01-Y			Lamp Spec: LPDL-30MW01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-30MW01-Y		Peak Value(cd)	733.3	Efficiency(lm/w)	85.2
Nominal P(w)		30.0	Position	0.0,4.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2145.972	Down(C0-C180)	49.6
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)	50.4

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

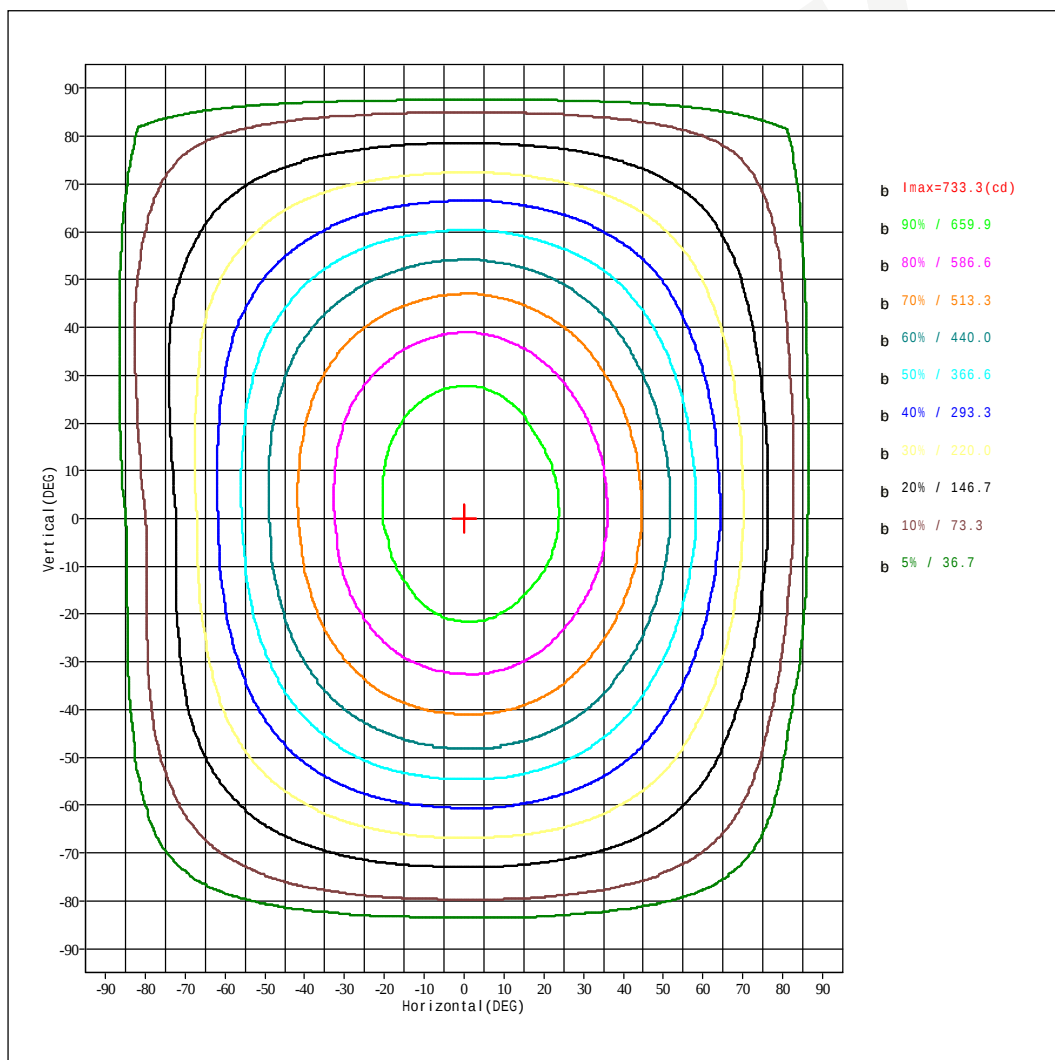
Humidity(%): 60

Date: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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

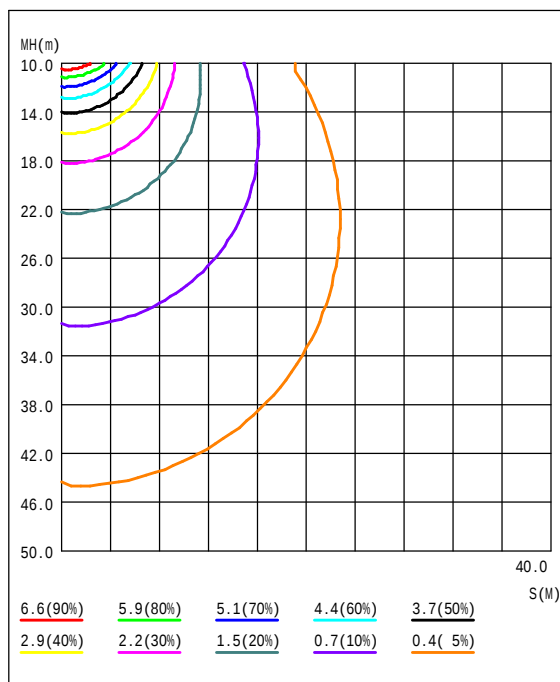
Humidity(%): 60

Date: 2026-5-22

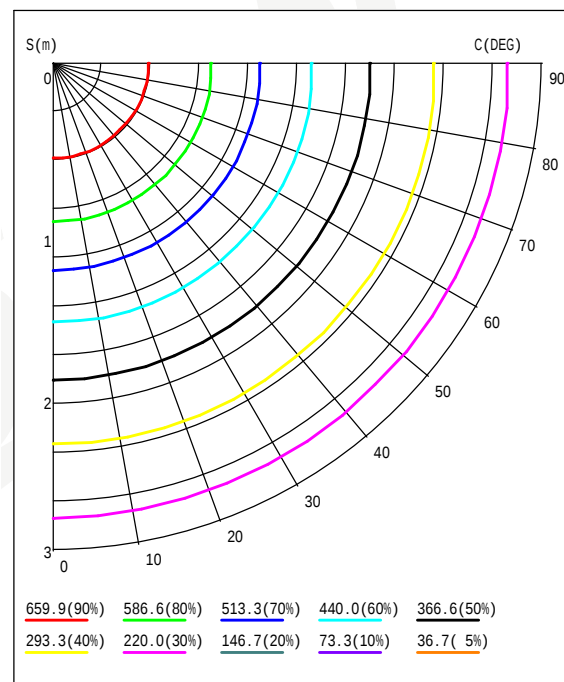
Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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: 2026-5-22

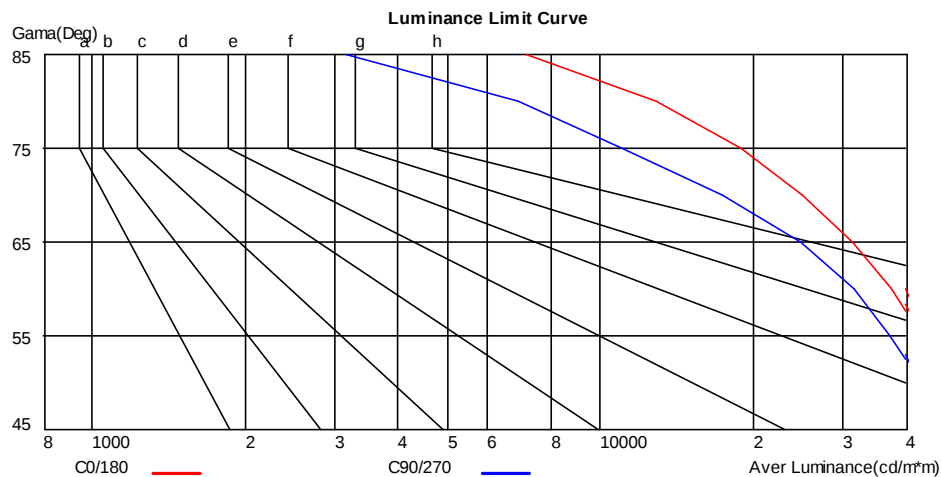
Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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	53664.8	48654.6	43236.6	37415.9	31320.3	25077.7	18976.7	12900.2	7163.8
C90	47886.7	42781.9	37354.2	31632.9	24831.2	17365.1	11027.0	6884.5	3159.0

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

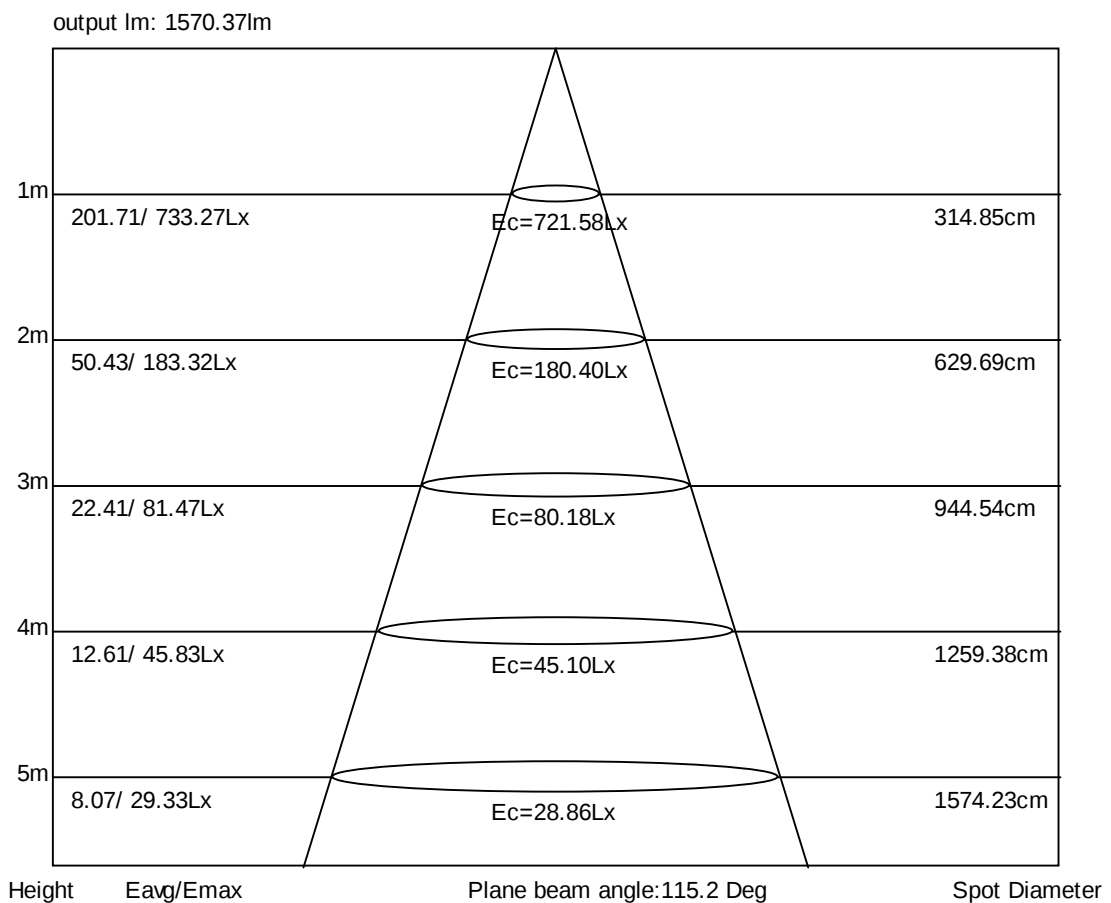
Humidity(%): 60

Date: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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

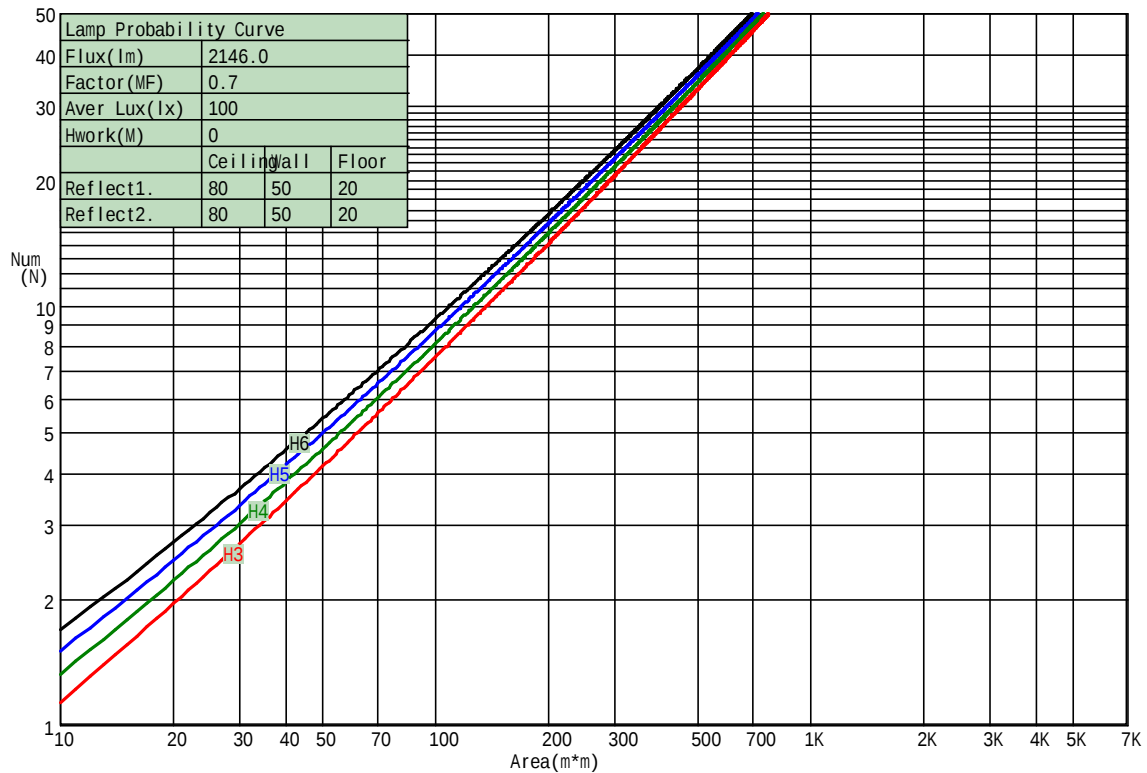
Humidity(%): 60

Date: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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	39	30	52	38	29	49	37	29
0.80	58	42	31	56	41	31	52	39	30
1.00	61	44	33	59	43	32	54	41	31
1.25	64	46	33	61	45	33	56	42	31
1.50	66	48	34	63	46	33	57	43	31
2.00	69	50	35	65	48	34	58	44	32
2.50	70	51	35	66	49	34	59	44	31
3.00	71	52	35	67	49	34	59	44	31
4.00	72	53	36	68	50	34	60	44	31
5.00	73	53	36	69	50	34	60	44	31

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	1.03	0.99	0.95	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.9	0.88	0.89	0.87	0.85
2	0.9	0.83	0.77	0.88	0.82	0.76	0.84	0.79	0.74	0.81	0.77	0.73	0.78	0.74	0.71
3	0.79	0.7	0.64	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.66	0.61	0.69	0.64	0.6
4	0.7	0.61	0.54	0.68	0.6	0.53	0.66	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.51
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.57	0.5	0.45	0.55	0.49	0.44
6	0.56	0.47	0.4	0.55	0.46	0.4	0.53	0.45	0.4	0.51	0.45	0.39	0.5	0.44	0.39
7	0.51	0.42	0.35	0.5	0.41	0.35	0.48	0.41	0.35	0.47	0.4	0.35	0.45	0.39	0.35
8	0.46	0.37	0.32	0.45	0.37	0.31	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.31
9	0.42	0.34	0.28	0.42	0.34	0.28	0.41	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28
10	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.3	0.25	0.37	0.3	0.25	0.36	0.3	0.25

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: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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	0.32	0.18	0.06	0.31	0.18	0.06	0.3	0.17	0.05	0.29	0.16	0.05	0.27	0.16	0.05
2	0.3	0.16	0.05	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05
3	0.27	0.15	0.04	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04
4	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
5	0.23	0.12	0.03	0.23	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
9	0.18	0.08	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
10	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

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	0.13	0.15	0.13	0.12	0.11	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.01
2	0.17	0.13	0.1	0.15	0.11	0.08	0.1	0.08	0.06	0.06	0.05	0.03	0.02	0.01	0.01
3	0.17	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.04	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.14	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	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.14	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.02	0.08	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.11	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)

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: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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	733	720	711	710	726	718	716	716	0-5	17.2	17.2
10	728	713	701	700	714	708	711	711	5-10	51.1	68.4
15	719	701	685	683	696	693	700	701	10-15	83.5	152
20	703	684	664	662	673	672	683	685	15-20	113	265
25	681	661	637	635	644	646	661	663	20-25	140	405
30	654	632	605	602	610	613	633	635	25-30	162	566
35	620	598	568	565	570	575	598	601	30-35	178	745
40	581	559	526	522	524	531	558	561	35-40	189	934
45	537	514	479	474	474	482	512	515	40-45	193	1127
50	487	465	428	422	420	428	461	465	45-50	191	1318
55	432	413	374	367	362	371	405	410	50-55	182	1500
60	374	357	316	310	302	310	346	351	55-60	168	1668
65	313	299	248	251	241	248	285	290	60-65	147	1815
70	251	239	174	194	182	188	223	229	65-70	122	1937
75	190	181	110	137	124	127	162	166	70-75	93.6	2031
80	129	124	68.8	83.5	69.4	69.8	102	106	75-80	64.9	2095
85	71.6	69.7	31.6	35.4	21.4	20.3	48.8	52.6	80-85	37.2	2133
90	33.8	20.2	6.37	3.86	3.95	3.55	3.97	16.7	85-90	13.3	2146
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: 2026-5-22

Remark:

Measured Para U: 224.7V I: 184.0mA P: 25.20W PF: 0.608 Test LM: 2145.97lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-30MW01-Y	Lamp Spec: LPDL-30MW01-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	733	727	722	717	713	711	711	712	719	726	722	719	717	717	716	716	718	726
10.0	728	722	715	709	703	700	700	701	708	714	711	709	709	710	711	711	713	721
15.0	719	711	703	696	688	684	684	685	691	696	695	693	695	698	700	701	703	711
20.0	703	694	686	677	668	663	662	663	668	673	673	672	676	681	684	684	687	695
25.0	681	672	663	653	642	637	636	636	640	644	645	646	651	658	661	662	665	673
30.0	654	644	634	623	611	605	603	603	607	610	611	613	620	628	633	634	637	646
35.0	620	611	601	588	575	567	566	565	568	570	572	574	582	593	599	600	603	612
40.0	581	572	561	548	533	525	523	522	523	524	527	530	540	552	559	560	563	573
45.0	537	527	517	503	487	478	476	474	474	474	477	481	492	505	513	514	518	527
50.0	487	477	468	453	436	427	424	422	421	420	424	427	439	454	462	464	467	477
55.0	432	424	415	400	382	372	369	367	364	362	366	370	382	397	406	408	413	423
60.0	374	367	359	344	325	315	312	309	306	302	306	309	322	338	347	350	354	364
65.0	313	307	300	282	259	249	250	250	246	241	244	248	260	277	286	288	293	303
70.0	251	246	240	218	188	178	187	193	187	182	185	187	199	215	224	227	232	241
75.0	190	186	182	158	126	116	128	135	129	124	125	127	138	154	163	165	169	180
80.0	129	127	124	106	80.8	72	78.7	81.9	75.6	69.4	69.6	69.8	80.3	94.7	103	105	109	119
85.0	71.6	70.8	69.9	57.2	39.9	32.4	34.2	33.9	27.5	21.4	20.9	20.4	29.7	42.5	49.6	51.4	54.7	63.3
90.0	33.8	27.9	21.7	15.7	9.4	5.82	4.68	3.87	3.91	3.95	3.78	3.6	3.69	3.88	6.74	12.5	18.5	26.3
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: 2026-5-22

Remark: