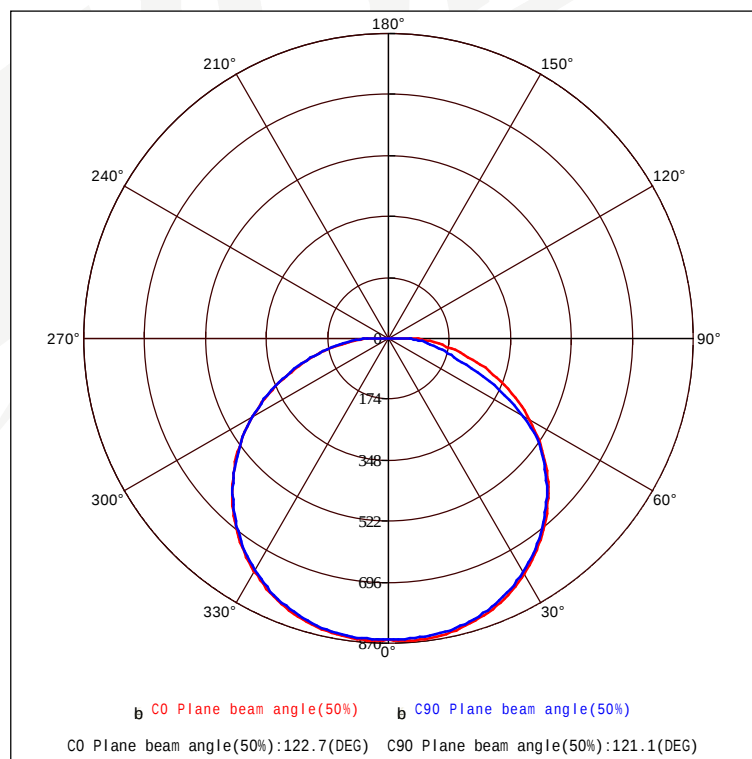


Goniophotometer Test Report

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LP-DL30MF01-YB			Lamp Spec: LP-DL30MF01-YB		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LP-DL30MF01-YB		Peak Value(cd)	864.8	Efficiency(lm/w)	93.9
Nominal P(w)		30.0	Position	0.0,5.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2826.510	Down(C0-C180)	50.6
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)	49.4

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

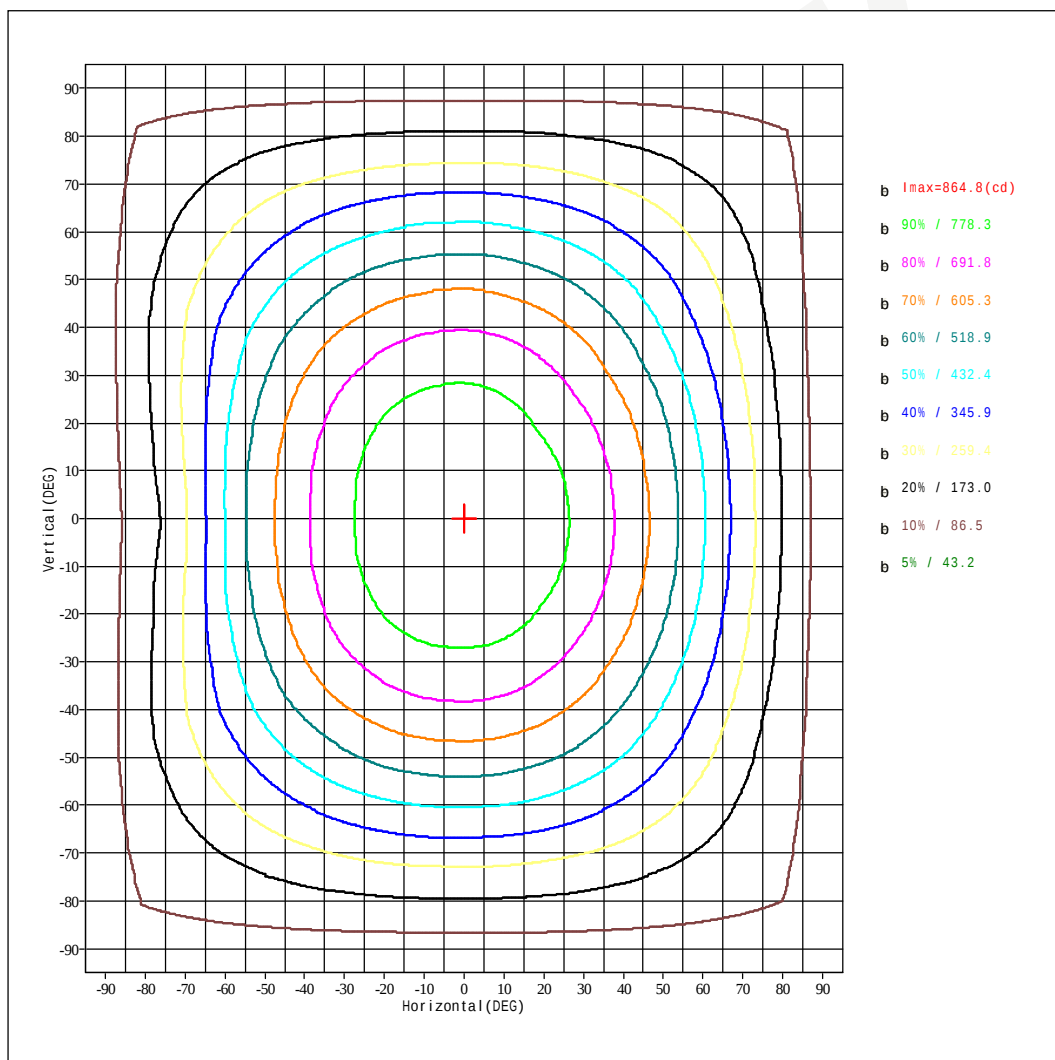
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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

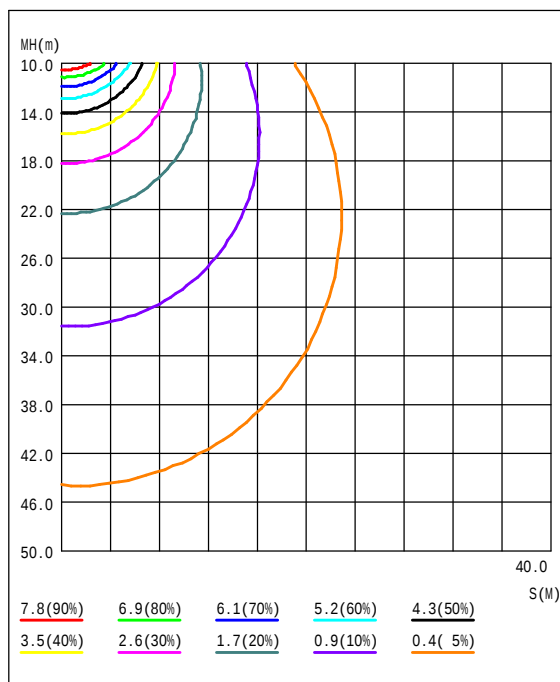
Humidity(%): 60

Date: 2026-1-21

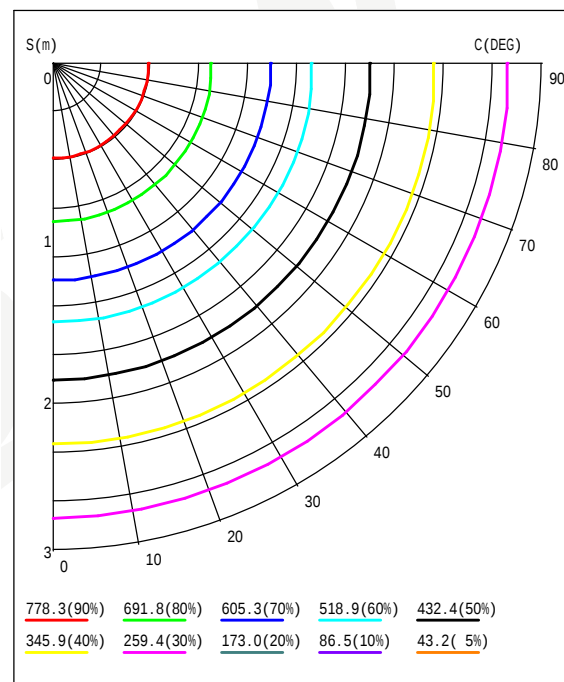
Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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: 2026-1-21

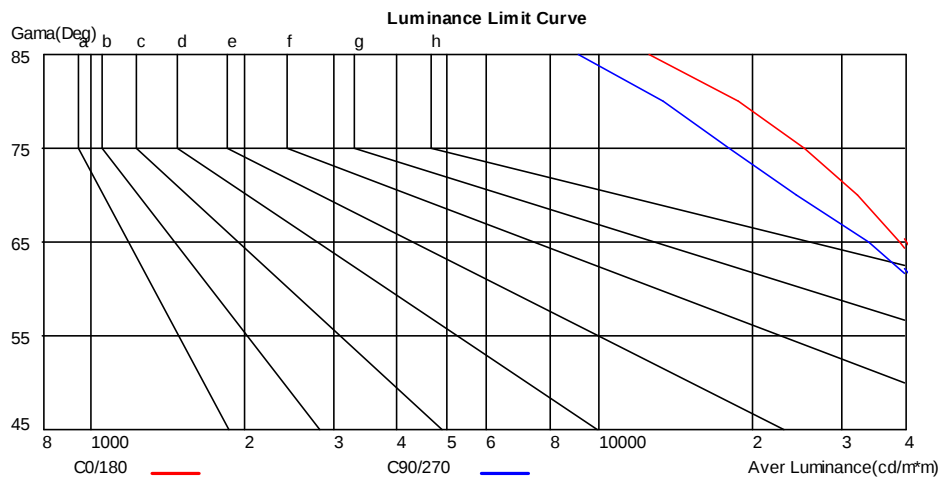
Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-YB	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	63916.6	58442.3	52506.0	46022.3	39187.8	32222.9	25346.2	18778.8	12564.6
C90	63299.7	57778.8	51814.1	43292.0	33952.1	24429.9	17992.8	13392.7	9131.6

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

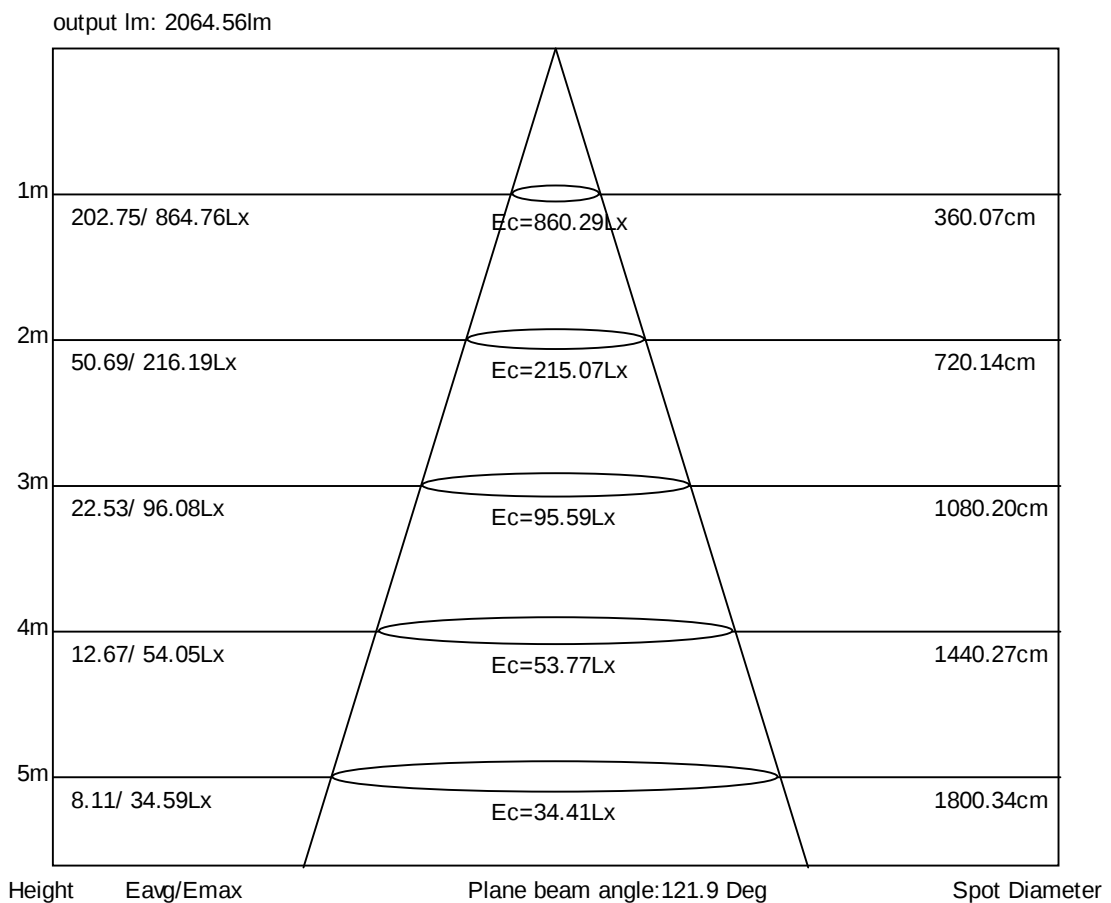
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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

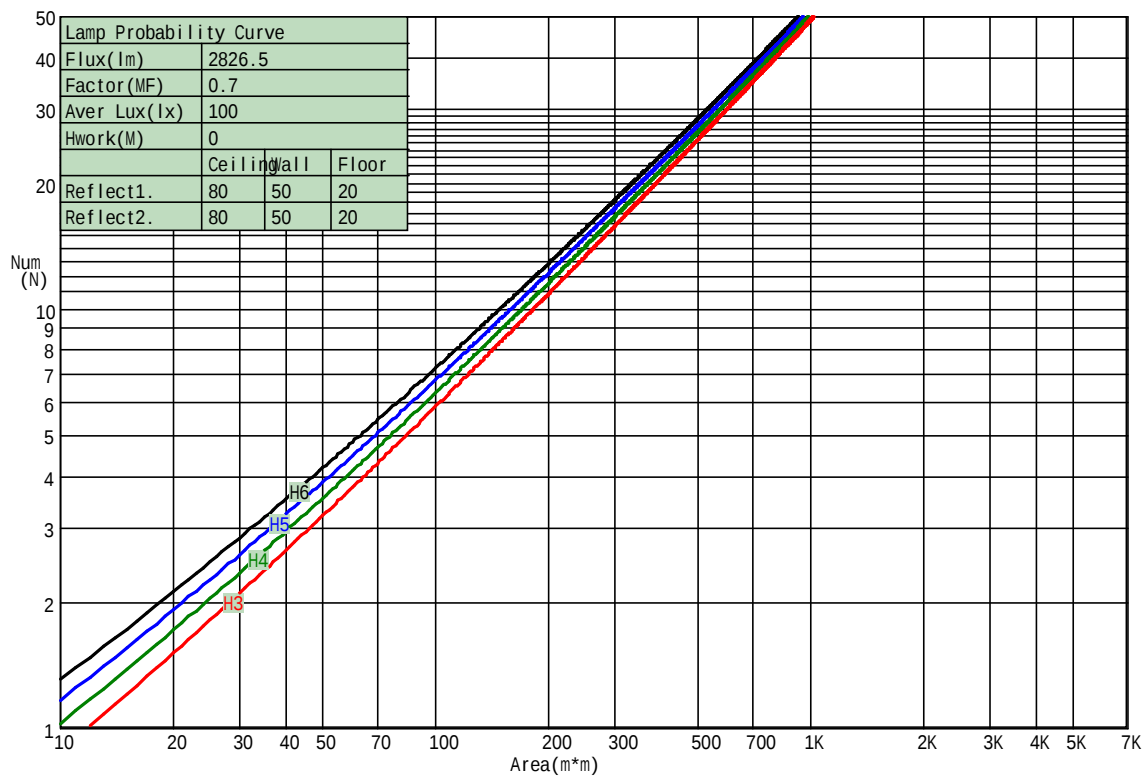
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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	52	37	28	50	36	27	47	35	27
0.80	57	40	29	55	39	29	51	37	28
1.00	60	43	31	57	42	30	53	39	29
1.25	63	45	32	60	44	31	55	41	30
1.50	65	47	33	62	45	32	56	41	30
2.00	68	49	34	64	47	33	58	43	31
2.50	70	50	34	66	48	33	58	43	31
3.00	71	51	35	67	49	33	59	44	30
4.00	72	53	35	68	50	34	59	44	30
5.00	73	53	36	68	50	34	60	44	30

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	1.02	0.97	0.93	1	0.95	0.91	0.95	0.92	0.88	0.91	0.88	0.86	0.88	0.85	0.83
2	0.88	0.8	0.74	0.86	0.79	0.73	0.82	0.77	0.72	0.79	0.74	0.7	0.76	0.72	0.68
3	0.77	0.68	0.61	0.75	0.67	0.6	0.72	0.65	0.59	0.69	0.63	0.58	0.67	0.62	0.57
4	0.68	0.58	0.51	0.66	0.58	0.51	0.64	0.56	0.5	0.61	0.55	0.49	0.59	0.53	0.49
5	0.6	0.51	0.44	0.59	0.5	0.44	0.57	0.49	0.43	0.55	0.48	0.43	0.53	0.47	0.42
6	0.54	0.45	0.38	0.53	0.44	0.38	0.51	0.43	0.37	0.49	0.42	0.37	0.48	0.42	0.37
7	0.49	0.4	0.33	0.48	0.39	0.33	0.46	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.32
8	0.45	0.36	0.3	0.44	0.35	0.3	0.42	0.35	0.29	0.41	0.34	0.29	0.4	0.34	0.29
9	0.41	0.32	0.27	0.4	0.32	0.27	0.39	0.32	0.26	0.38	0.31	0.26	0.37	0.31	0.26
10	0.38	0.29	0.24	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.24	0.34	0.28	0.24

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: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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	0.35	0.2	0.06	0.34	0.19	0.06	0.33	0.19	0.06	0.31	0.18	0.06	0.3	0.18	0.06
2	0.32	0.17	0.05	0.31	0.17	0.05	0.3	0.17	0.05	0.29	0.16	0.05	0.28	0.16	0.05
3	0.29	0.15	0.05	0.28	0.15	0.05	0.27	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04
4	0.26	0.14	0.04	0.26	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04
5	0.24	0.12	0.04	0.24	0.12	0.04	0.23	0.12	0.03	0.22	0.12	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.1	0.03
7	0.21	0.1	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
8	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
9	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02
10	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	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	0.16	0.13	0.11	0.11	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.01
2	0.18	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	0.03	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	0.09	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	0.05	0.03	0.01	0.01	0.01	0
9	0.12	0.07	0.02	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: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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	865	862	859	857	864	861	859	856	0-5	20.6	20.6
10	860	858	854	853	857	853	853	849	5-10	61.4	81.9
15	848	848	843	843	844	839	840	835	10-15	101	183
20	830	830	824	825	824	818	820	814	15-20	137	320
25	805	806	799	801	797	790	793	786	20-25	170	490
30	773	776	766	770	764	755	760	752	25-30	198	688
35	734	738	728	732	723	713	720	711	30-35	219	907
40	689	694	683	688	677	667	674	665	35-40	234	1141
45	639	645	633	639	625	614	624	614	40-45	242	1384
50	584	591	578	585	569	557	568	558	45-50	243	1627
55	525	533	518	526	507	496	508	497	50-55	236	1863
60	460	469	433	462	440	428	443	431	55-60	222	2085
65	392	402	340	394	371	358	374	363	60-65	199	2284
70	322	333	244	325	300	288	305	294	65-70	171	2455
75	253	264	180	256	232	221	237	227	70-75	139	2595
80	188	194	134	191	166	155	172	162	75-80	108	2702
85	126	136	91.3	128	105	95.7	111	103	80-85	76.5	2779
90	83.6	77.8	62	72.3	57.8	62.6	61.8	67.4	85-90	47.5	2827
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: 2026-1-21

Remark:

Measured Para U: 228.2V I: 218.0mA P: 30.10W PF: 0.604 Test LM: 2826.51lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL30MF01-YB	Lamp Spec: LP-DL30MF01-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	865	863	862	861	859	858	858	858	861	864	862	861	860	859	858	857	857	861
10.0	860	859	858	857	855	854	853	854	856	857	856	854	853	853	852	850	850	855
15.0	848	848	848	846	844	843	843	843	844	844	842	840	839	839	839	836	836	843
20.0	830	830	830	828	825	824	825	825	825	824	821	818	818	819	819	816	816	823
25.0	805	805	806	804	800	799	800	801	799	797	794	791	791	792	792	789	788	797
30.0	773	774	775	773	768	767	769	770	766	764	760	756	756	759	758	755	754	764
35.0	734	736	738	735	730	729	731	731	727	723	719	714	716	719	718	714	714	724
40.0	689	691	694	690	685	684	686	687	682	677	672	668	669	673	672	668	667	678
45.0	639	642	644	641	636	634	637	637	631	625	620	616	617	622	621	617	617	628
50.0	584	587	590	587	581	579	582	583	576	569	564	558	561	565	566	561	561	573
55.0	525	528	532	528	521	520	523	524	516	507	502	497	500	505	506	501	500	513
60.0	460	464	468	457	441	439	452	459	450	440	435	429	433	439	440	435	434	448
65.0	392	396	401	381	353	351	376	391	381	371	365	360	364	371	372	366	366	379
70.0	322	327	332	304	264	262	298	322	311	300	295	290	294	301	302	297	297	310
75.0	253	258	263	236	198	197	231	254	242	232	227	222	226	233	235	230	230	242
80.0	188	191	194	174	147	146	172	188	177	166	161	156	160	168	170	165	165	176
85.0	126	130	134	121	101	99.4	116	126	115	105	101	96.6	101	108	109	106	106	116
90.0	83.6	81	78.4	72.6	65.4	64.2	68.9	70.7	64.2	57.8	59.9	62.1	62.4	62	63	65.6	69.2	76.5
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: 2026-1-21

Remark: