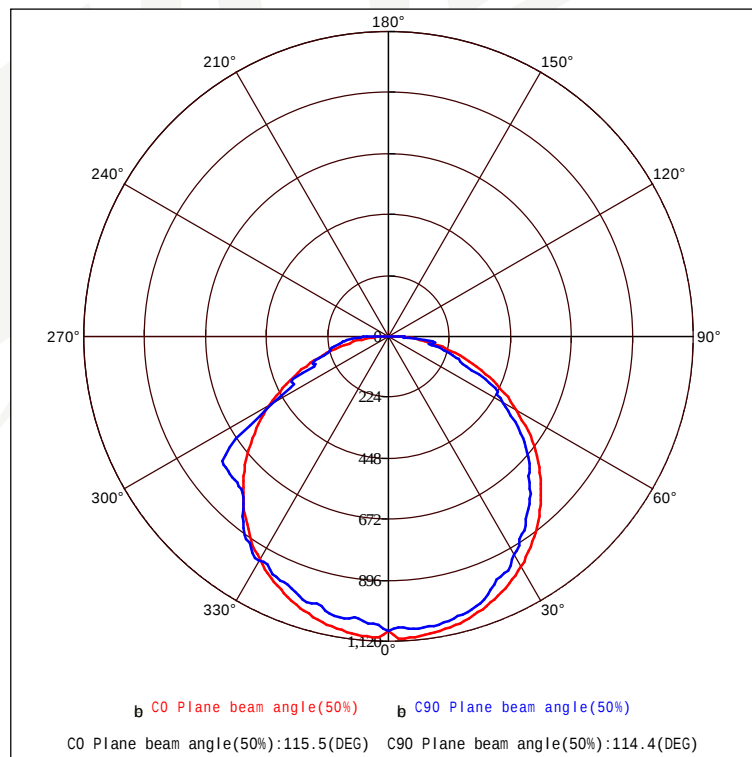


Goniophotometer Test Report

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-40MW01-Y			Lamp Spec: LPDL-40MW01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-40MW01-Y		Peak Value(cd)	1110.7	Efficiency(lm/w)	97.5
Nominal P(w)		1.0	Position	0.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	3352.354	Down(C0-C180)	48.4
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)	51.6

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

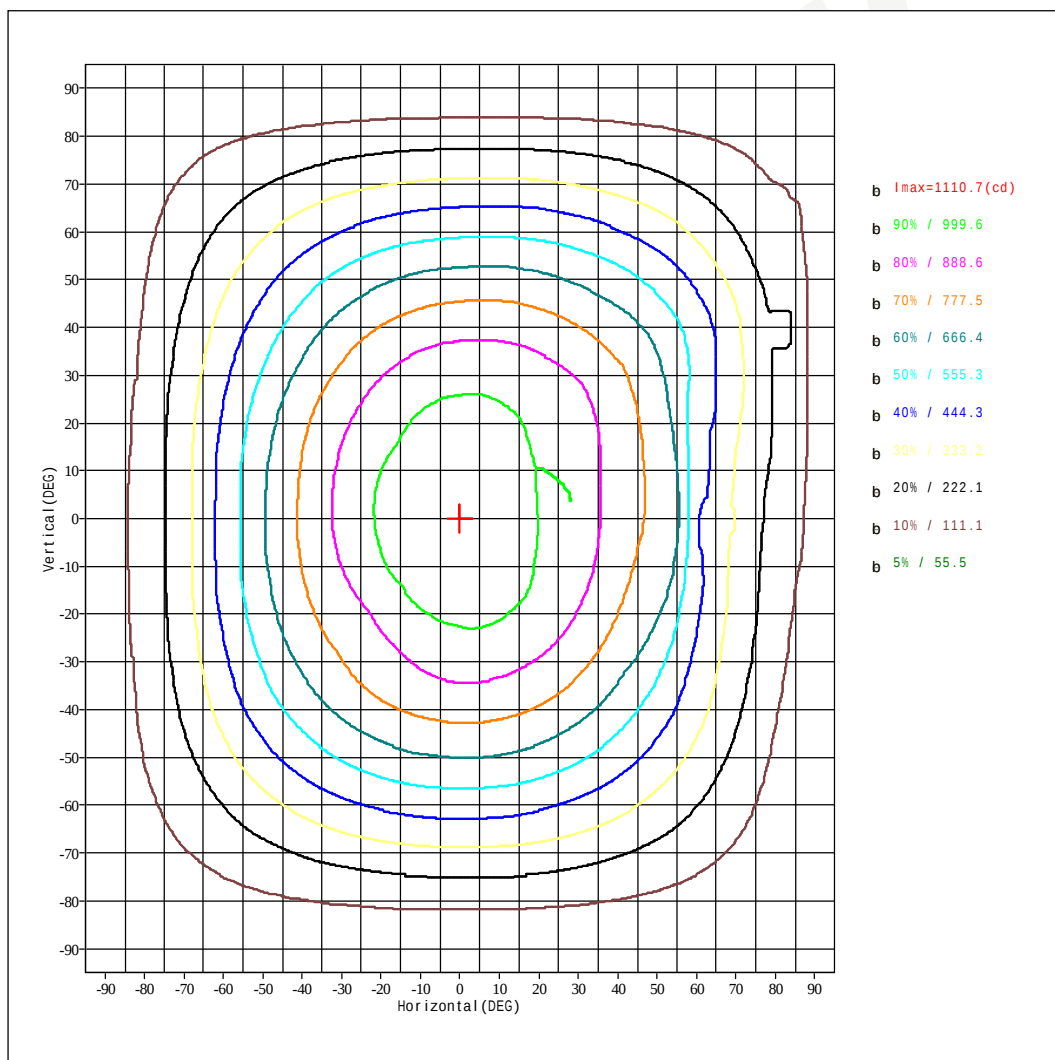
Humidity(%): 60

Date: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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: zxg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

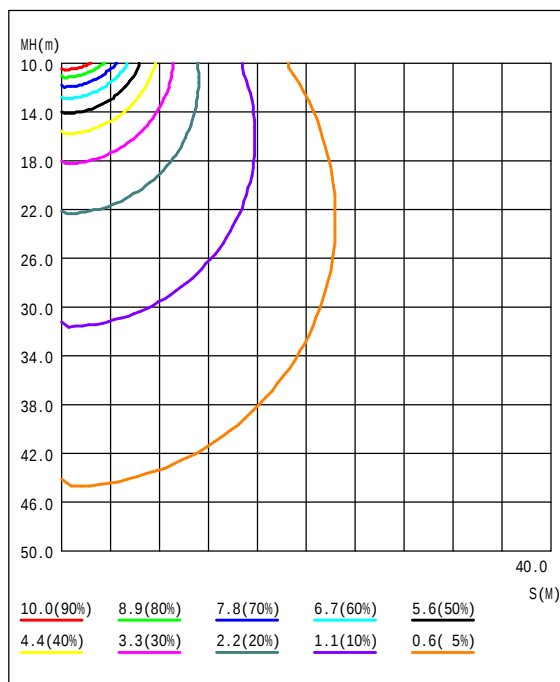
Humidity(%): 60

Date: 2026-1-20

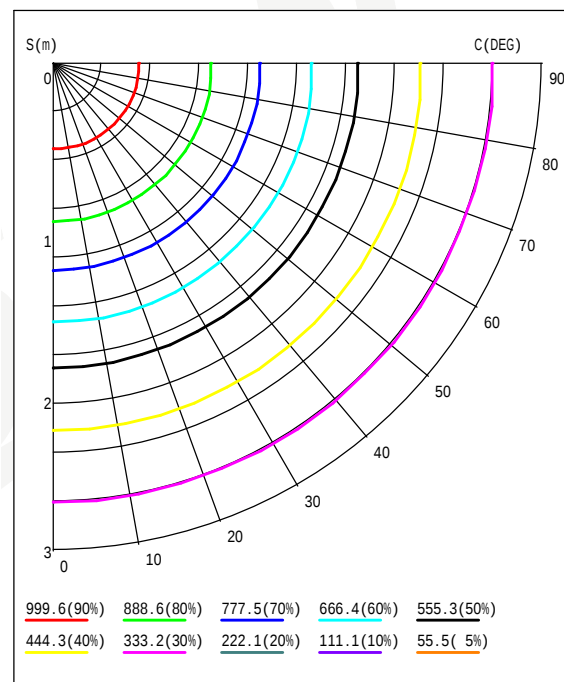
Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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: 2026-1-20

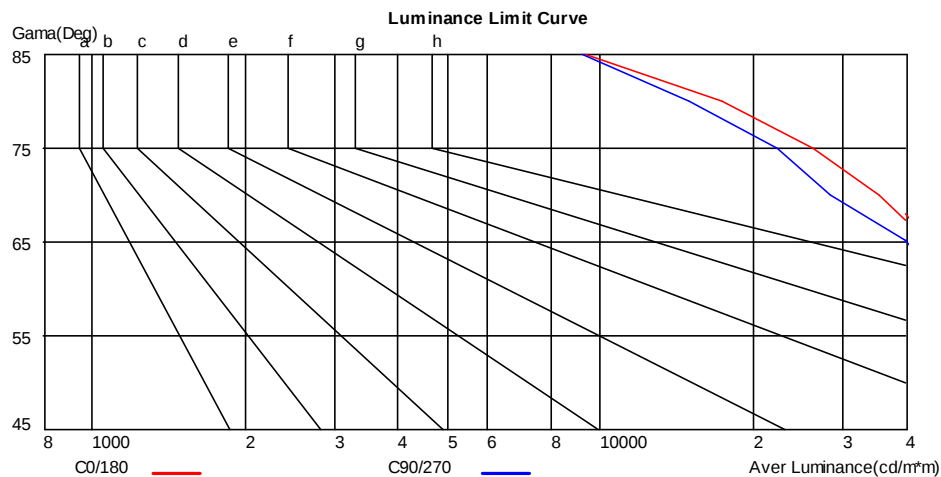
Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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	78721.0	71007.9	62673.0	53333.1	44568.4	35401.5	26346.8	17429.8	9383.0
C90	72012.9	65786.4	57437.3	48060.2	40253.5	28366.1	22250.4	15031.7	9225.7

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

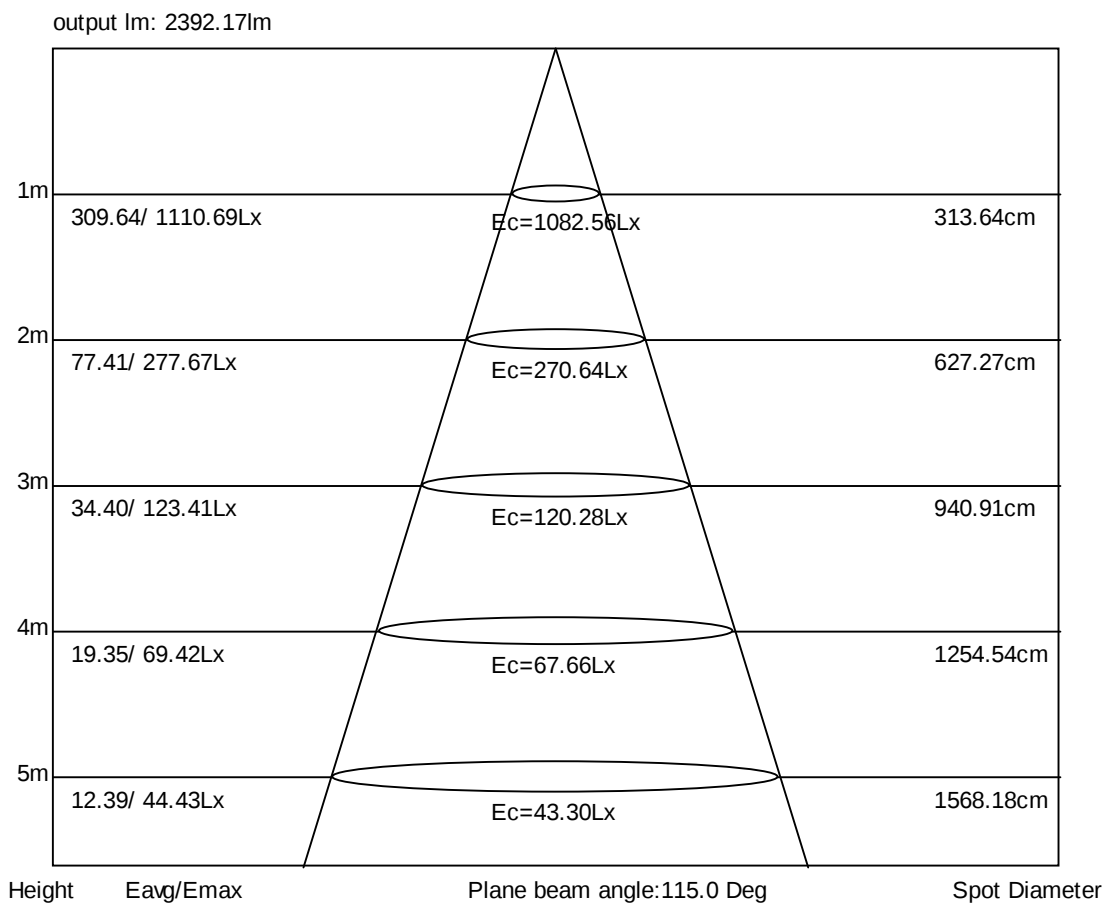
Humidity(%): 60

Date: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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

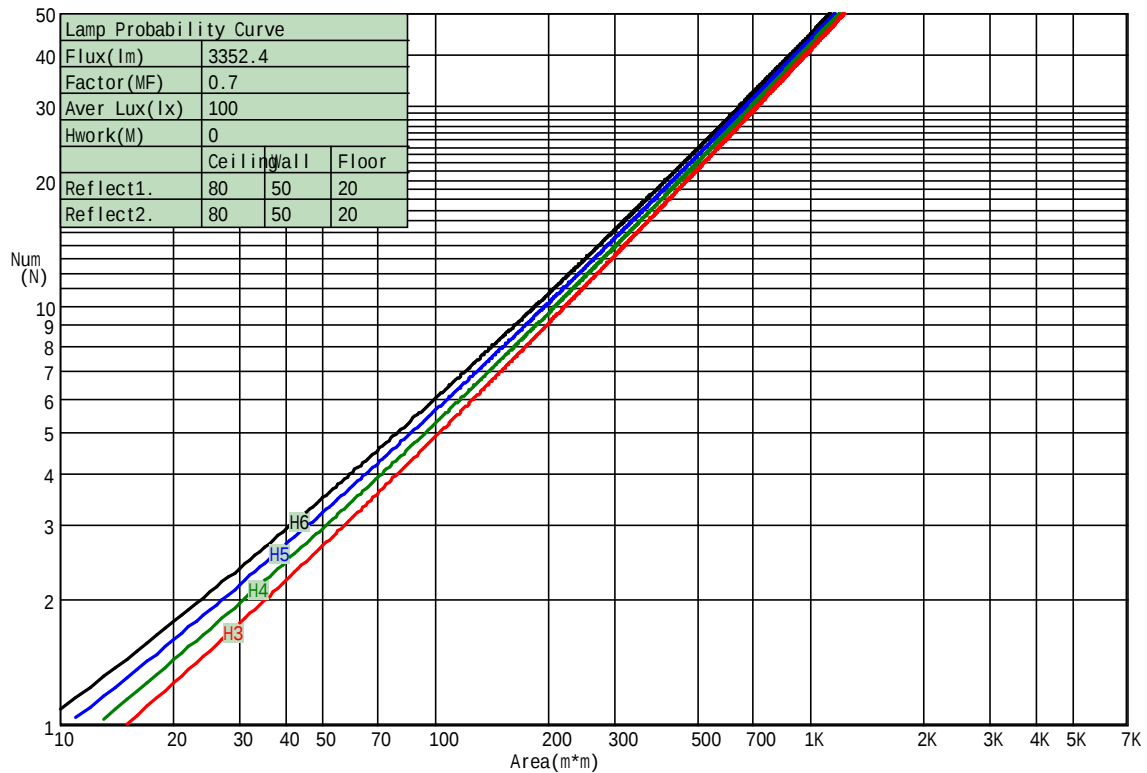
Humidity(%): 60

Date: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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	29	51	37	28	48	36	28
0.80	57	41	30	55	40	30	51	38	29
1.00	60	43	31	58	42	31	53	40	30
1.25	63	45	32	60	44	32	55	41	30
1.50	65	47	33	62	45	32	56	42	30
2.00	68	49	34	64	47	33	57	43	31
2.50	69	50	34	65	48	33	58	43	30
3.00	71	51	34	66	48	33	58	43	30
4.00	72	52	35	67	49	33	59	44	30
5.00	73	53	35	68	50	33	59	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	1.03	0.98	0.94	1	0.96	0.92	0.96	0.93	0.89	0.92	0.89	0.87	0.89	0.86	0.84
2	0.89	0.82	0.76	0.87	0.8	0.75	0.83	0.78	0.73	0.8	0.75	0.71	0.77	0.73	0.7
3	0.78	0.69	0.63	0.76	0.68	0.62	0.73	0.66	0.61	0.7	0.65	0.6	0.68	0.63	0.59
4	0.69	0.6	0.53	0.67	0.59	0.52	0.65	0.57	0.52	0.62	0.56	0.51	0.6	0.55	0.5
5	0.61	0.52	0.45	0.6	0.51	0.45	0.58	0.5	0.44	0.56	0.49	0.44	0.54	0.48	0.43
6	0.55	0.46	0.39	0.54	0.45	0.39	0.52	0.44	0.39	0.51	0.44	0.38	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.4	0.34	0.47	0.4	0.34	0.46	0.39	0.34	0.45	0.38	0.34
8	0.45	0.37	0.31	0.45	0.36	0.31	0.43	0.36	0.3	0.42	0.35	0.3	0.41	0.35	0.3
9	0.42	0.33	0.28	0.41	0.33	0.27	0.4	0.32	0.27	0.39	0.32	0.27	0.38	0.32	0.27
10	0.38	0.3	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.29	0.25	0.35	0.29	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: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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	0.33	0.19	0.06	0.32	0.19	0.06	0.31	0.18	0.06	0.3	0.17	0.06	0.29	0.17	0.05
2	0.31	0.17	0.05	0.3	0.16	0.05	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05
3	0.28	0.15	0.04	0.27	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.25	0.14	0.04
4	0.26	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.23	0.12	0.04
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	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	0.19	0.1	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.19	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	0.09	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	0.17	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

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	0.17	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	0.09	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	0.06	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: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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	1109	1087	1077	1059	1104	1089	1046	1054	0-5	25.8	25.8
10	1098	1073	1073	1053	1088	1076	1048	1046	5-10	76.8	103
15	1079	1051	1056	1045	1064	1056	1016	1039	10-15	126	228
20	1051	1020	1026	1008	1032	1027	993	1026	15-20	171	399
25	1015	982	969	957	991	989	974	1010	20-25	211	610
30	971	935	922	878	942	943	950	983	25-30	243	853
35	918	880	864	834	884	889	909	947	30-35	269	1123
40	855	817	798	791	819	826	818	903	35-40	287	1410
45	787	747	720	735	747	756	771	843	40-45	295	1704
50	710	671	658	691	668	679	768	786	45-50	296	2001
55	627	589	574	589	582	596	699	728	50-55	289	2289
60	533	502	481	508	495	508	479	649	55-60	262	2551
65	446	414	403	418	404	417	395	564	60-65	229	2780
70	354	325	284	327	313	326	295	447	65-70	193	2973
75	263	239	223	231	224	238	228	357	70-75	153	3126
80	174	157	150	155	140	149	194	257	75-80	113	3239
85	93.8	79.9	92.3	95	63.1	71.1	146	212	80-85	75.1	3314
90	38.9	17.8	38	47.8	13.9	21.1	80.3	102	85-90	38.4	3352
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: 2026-1-20

Remark:

Measured Para U: 227.2V I: 282.0mA P: 34.40W PF: 0.536 Test LM: 3352.35lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40MW01-Y	Lamp Spec: LPDL-40MW01-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	1109	1099	1089	1084	1079	1073	1065	1064	1084	1104	1097	1090	1075	1055	1048	1052	1060	1085
10.0	1098	1087	1076	1073	1073	1068	1060	1057	1073	1088	1083	1078	1067	1054	1048	1047	1052	1075
15.0	1079	1066	1054	1053	1055	1054	1049	1047	1056	1064	1060	1057	1043	1025	1021	1032	1043	1061
20.0	1051	1038	1024	1022	1025	1022	1014	1011	1021	1032	1030	1027	1016	1000	1000	1015	1029	1040
25.0	1015	1000	985	978	972	967	961	961	976	991	990	989	984	977	982	998	1010	1013
30.0	971	955	939	931	925	912	893	885	914	942	943	943	945	949	958	973	982	976
35.0	918	901	884	875	867	857	844	840	862	884	886	888	895	905	918	935	944	931
40.0	855	839	821	811	802	796	793	794	807	819	822	825	823	819	836	875	898	876
45.0	787	770	751	738	726	723	730	737	742	747	751	755	761	768	787	819	837	811
50.0	710	693	675	666	661	665	680	688	678	668	673	677	708	748	772	780	778	743
55.0	627	610	593	584	577	578	584	588	585	582	588	594	630	677	705	718	717	671
60.0	533	520	506	495	485	487	499	506	500	495	500	506	498	486	516	593	636	584
65.0	446	432	417	410	405	406	413	417	410	404	410	416	410	399	432	509	551	498
70.0	354	341	328	312	293	293	313	326	319	313	318	324	315	301	328	397	437	395
75.0	263	253	241	233	226	224	228	230	227	224	230	237	235	230	256	315	347	304
80.0	174	167	158	154	152	151	153	153	146	140	144	148	164	184	208	236	248	210
85.0	93.8	87.7	81.4	84	89.6	92.9	94.1	91.5	77.1	63.1	66.6	70.2	95.7	130	160	190	199	146
90.0	38.9	29.7	20.1	24.4	33.6	40.2	44.6	44.1	28.8	13.9	17.1	20.3	40.5	67.4	85	94.7	94.8	66.4
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: 2026-1-20

Remark: