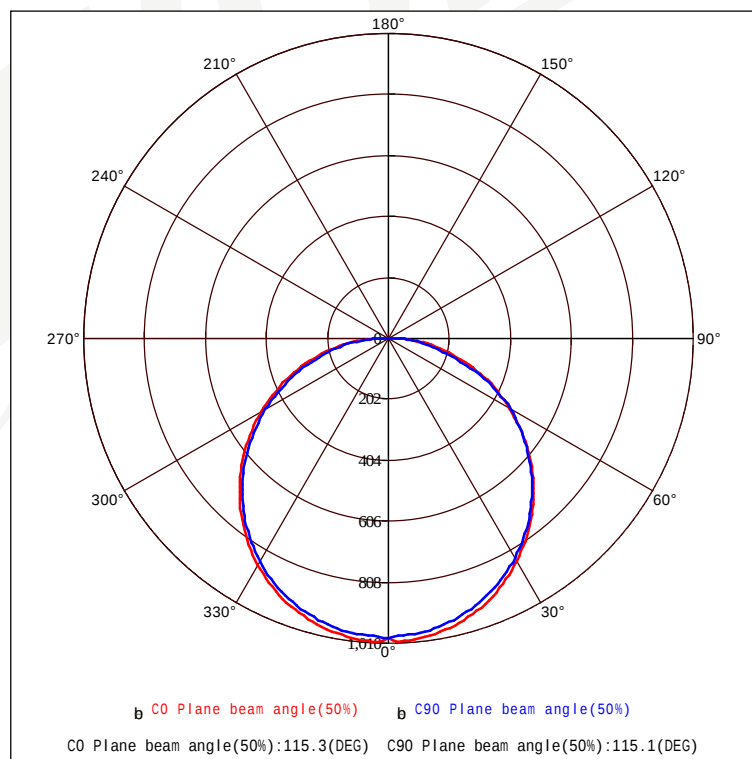


Goniophotometer Test Report

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-40EMS01-Y			Lamp Spec: LPDL-40EMS01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-40EMS01-Y		Peak Value(cd)	1005.9	Efficiency(lm/w)	78.6
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	2996.007	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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

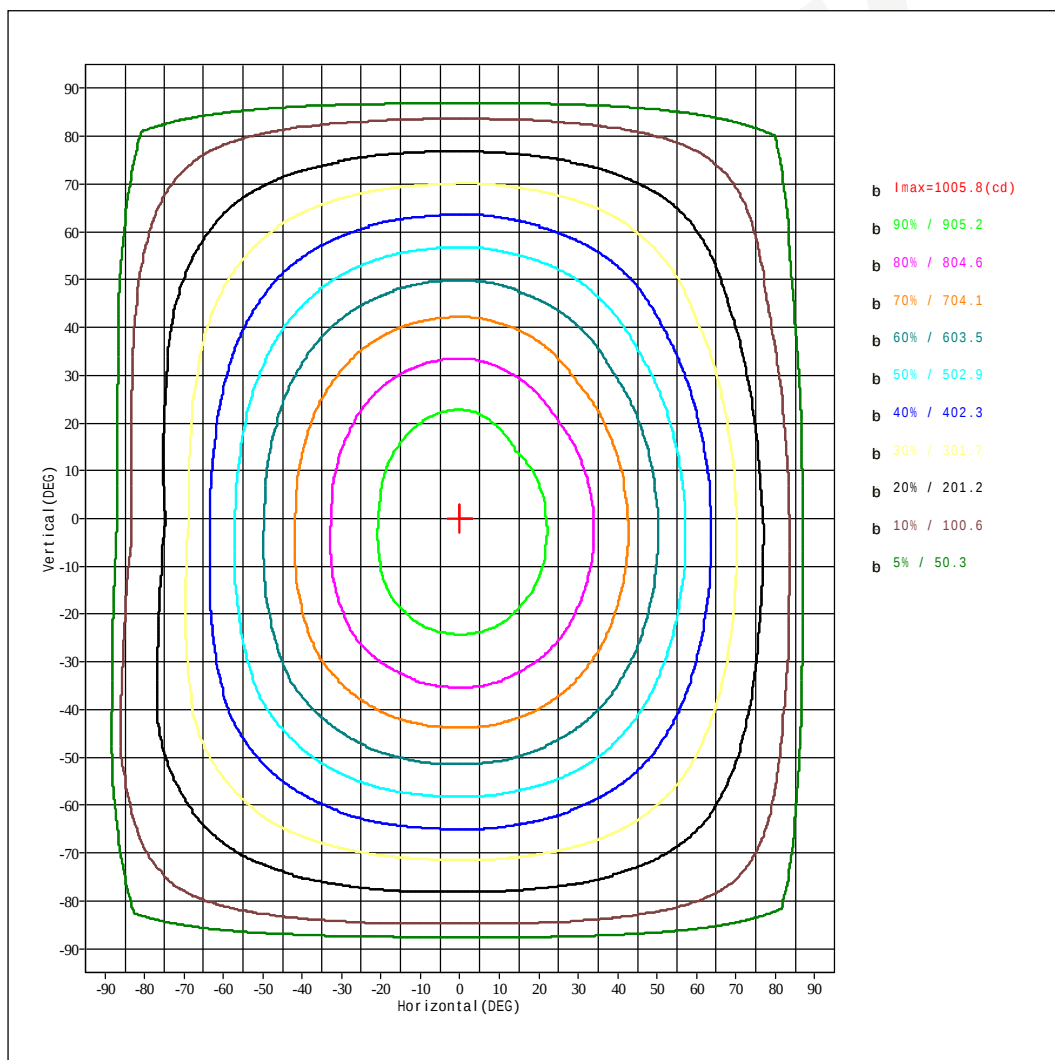
Humidity(%): 60

Date: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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

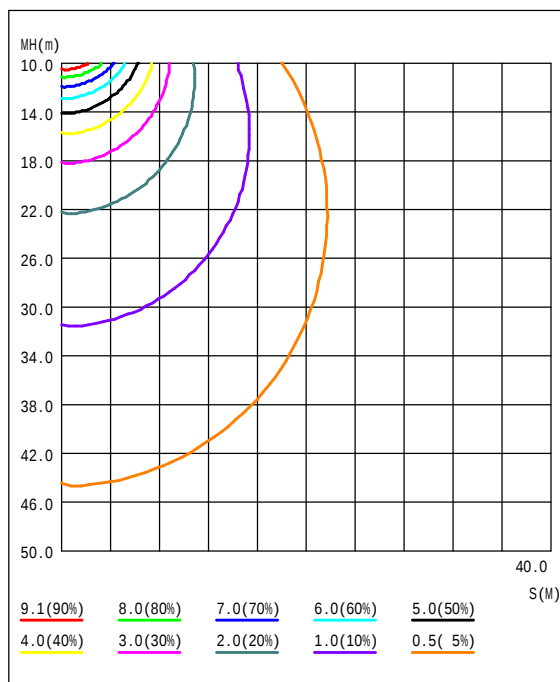
Humidity(%): 60

Date: 2026-7-15

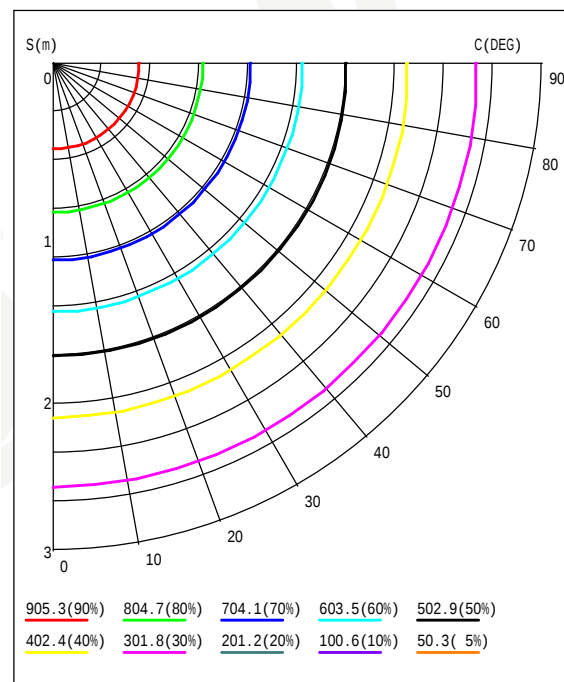
Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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: 2026-7-15

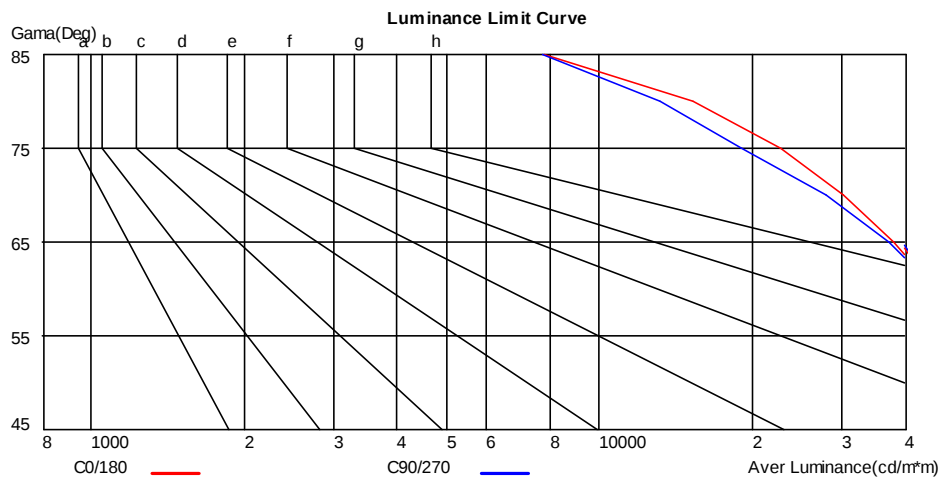
Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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	67095.2	60232.8	53071.4	45615.6	38056.8	30366.8	22745.8	15272.3	7800.8
C90	66613.5	60022.6	53085.6	45872.3	37266.5	27978.0	19036.5	13203.5	7731.2

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

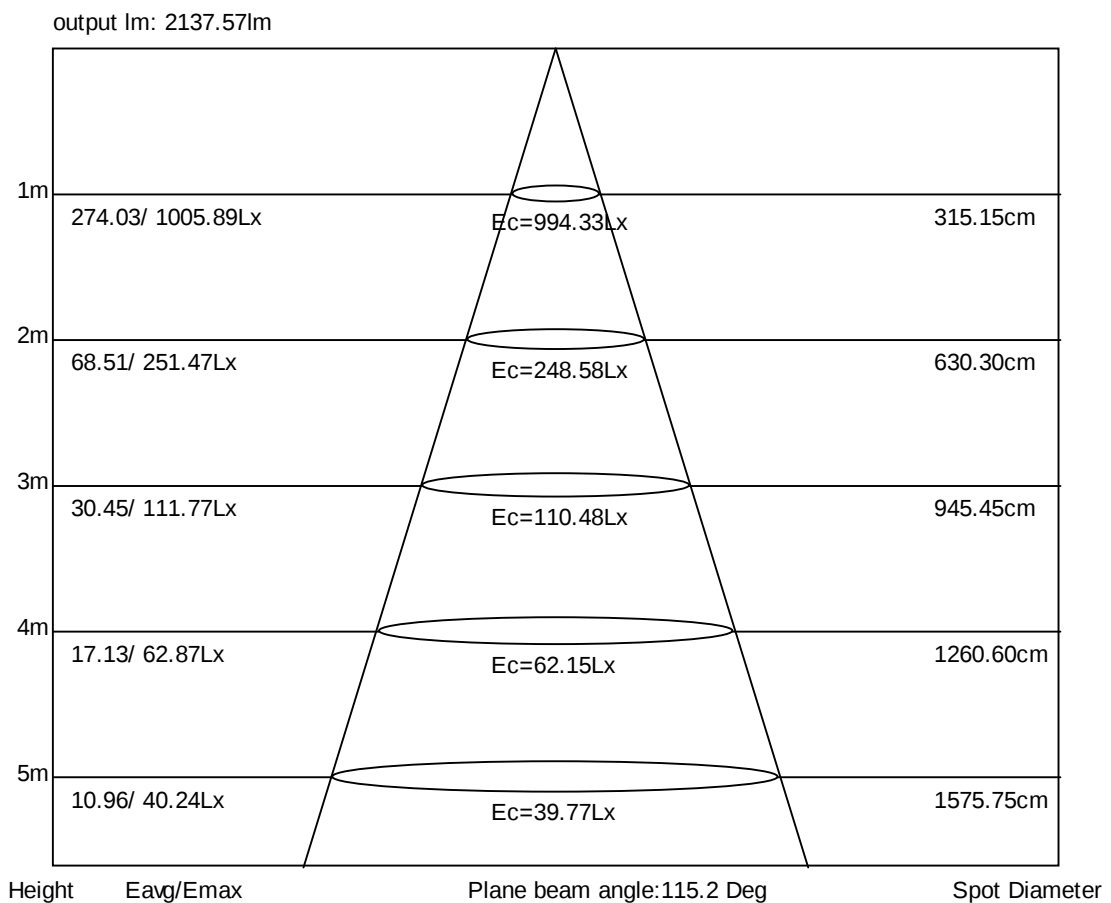
Humidity(%): 60

Date: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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

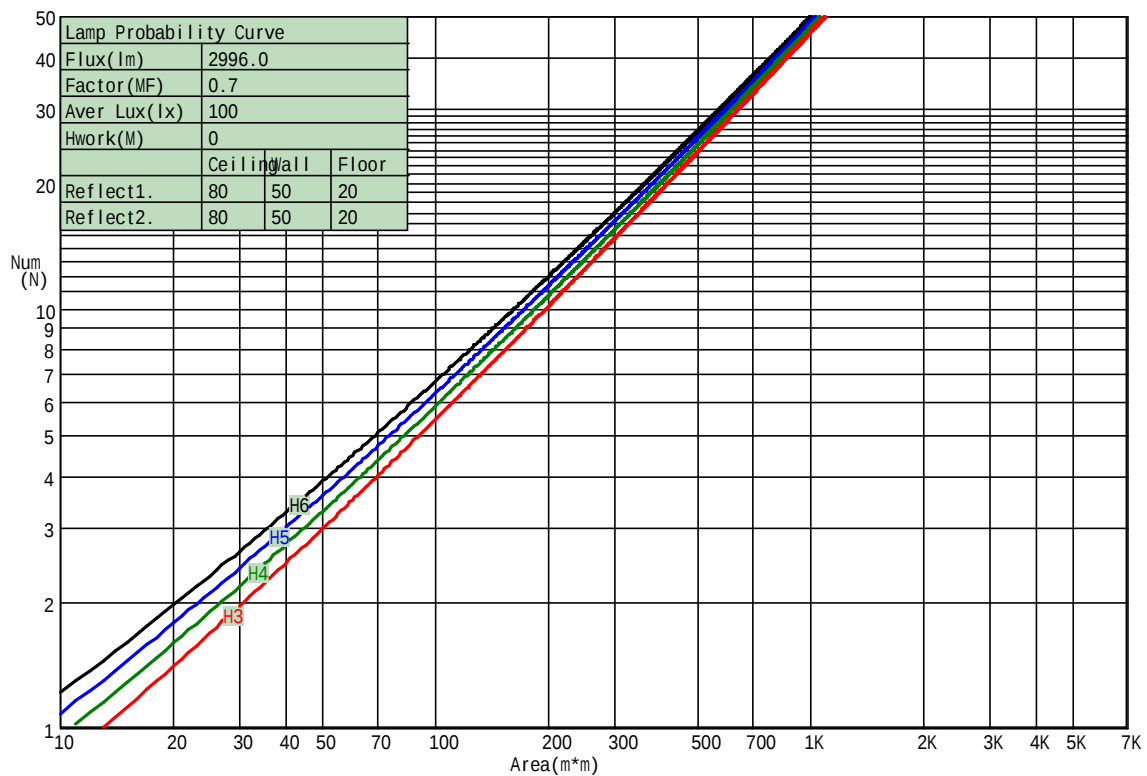
Humidity(%): 60

Date: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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	52	37	28	50	36	28	47	35	27
0.80	57	40	29	54	39	29	51	37	28
1.00	60	43	31	57	41	30	53	39	29
1.25	63	45	32	60	43	31	54	40	29
1.50	65	46	32	62	45	31	56	41	30
2.00	68	49	34	64	47	32	57	42	30
2.50	69	50	34	65	47	32	58	43	30
3.00	70	51	34	66	48	32	58	43	30
4.00	72	52	34	67	49	33	59	43	30
5.00	73	53	35	68	49	33	59	44	29

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	0.84	0.78	0.73	0.8	0.76	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	0.63	0.56	0.51	0.6	0.55	0.5
5	0.61	0.52	0.45	0.6	0.52	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	0.46	0.39	0.52	0.45	0.39	0.51	0.44	0.38	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.39	0.34
8	0.46	0.37	0.31	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.35	0.3	0.41	0.35	0.3
9	0.42	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.27	0.38	0.32	0.27
10	0.39	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: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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	0.18	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	0.15	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	0.24	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: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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	1000	989	983	987	1003	993	986	980	0-5	23.7	23.7
10	986	975	968	977	991	981	974	965	5-10	70.4	94.1
15	963	952	946	959	970	962	955	941	10-15	115	209
20	932	921	916	934	942	935	927	909	15-20	155	364
25	893	883	878	900	905	899	891	869	20-25	191	554
30	846	838	834	860	862	855	848	823	25-30	220	774
35	793	787	784	812	811	805	797	768	30-35	242	1016
40	734	730	728	759	754	748	741	708	35-40	256	1271
45	671	668	666	701	691	684	677	643	40-45	262	1533
50	602	601	600	637	624	617	609	573	45-50	259	1792
55	531	531	531	570	553	544	537	500	50-55	249	2041
60	456	458	459	498	479	468	463	422	55-60	231	2272
65	381	384	373	426	402	391	384	347	60-65	206	2478
70	304	310	280	352	325	313	306	270	65-70	176	2654
75	227	235	190	278	249	237	229	195	70-75	140	2794
80	153	163	132	205	174	158	154	118	75-80	103	2898
85	78	90.5	77.3	133	99.5	83.2	81.4	51.3	80-85	66.2	2964
90	37.8	34.9	42.1	64.1	36.1	38.4	28.9	23.7	85-90	32.1	2996
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: 2026-7-15

Remark:

Measured Para U: 227.1V I: 282.0mA P: 38.10W PF: 0.594 Test LM: 2996.01lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-40EMS01-Y	Lamp Spec: LPDL-40EMS01-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	1000	995	990	987	984	983	985	988	996	1003	999	994	991	987	984	982	982	991
10.0	986	981	976	972	969	970	974	979	985	991	987	982	979	976	972	968	967	977
15.0	963	958	953	950	947	949	955	961	965	970	967	963	959	956	952	945	943	953
20.0	932	927	923	920	917	920	928	935	938	942	939	936	932	929	923	915	912	922
25.0	893	889	884	882	879	883	893	901	903	905	903	900	896	893	886	877	872	883
30.0	846	843	839	837	835	840	851	860	861	862	859	856	853	850	843	831	825	836
35.0	793	791	788	786	784	790	803	812	812	811	808	805	802	799	791	778	771	782
40.0	734	733	731	729	728	734	749	759	756	754	751	748	745	742	734	719	711	723
45.0	671	670	668	667	667	674	689	700	696	691	688	685	682	678	669	654	646	659
50.0	602	602	601	601	600	608	625	636	630	624	621	617	614	611	601	585	577	590
55.0	531	531	531	531	531	539	557	568	560	553	549	545	542	538	529	512	503	517
60.0	456	457	458	458	459	467	485	496	487	479	474	470	467	464	454	436	426	441
65.0	381	382	384	381	375	384	408	423	413	402	398	392	389	386	376	359	351	366
70.0	304	306	309	300	286	296	328	349	337	325	320	314	311	308	298	282	274	289
75.0	227	231	235	221	200	210	249	275	262	249	244	238	234	231	222	206	198	213
80.0	153	157	162	153	139	148	181	201	187	174	167	159	156	155	146	129	121	137
85.0	78	83.5	89.1	86.2	80.2	89.6	115	130	114	99.5	92.3	84.9	82.6	81.7	74.8	61.2	54.2	66.3
90.0	37.8	36.6	35.2	37.3	40.5	46.9	56.9	61	48.3	36.1	37.1	38.1	35.3	31	27.8	25.4	25.2	31.6
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: 2026-7-15

Remark: