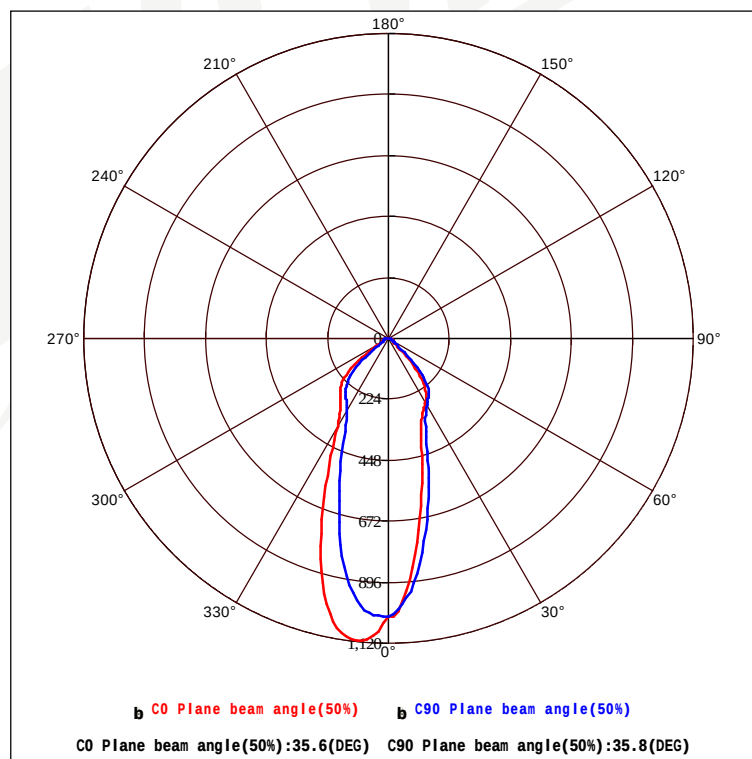


Goniophotometer Test Report

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-10GF01-Y			Lamp Spec: LPDL-10GF01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-10GF01-Y		Peak Value(cd)	1115.9	Efficiency(lm/w)	84.6
Nominal P(w)		1.0	Position	180.0,5.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	812.582	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

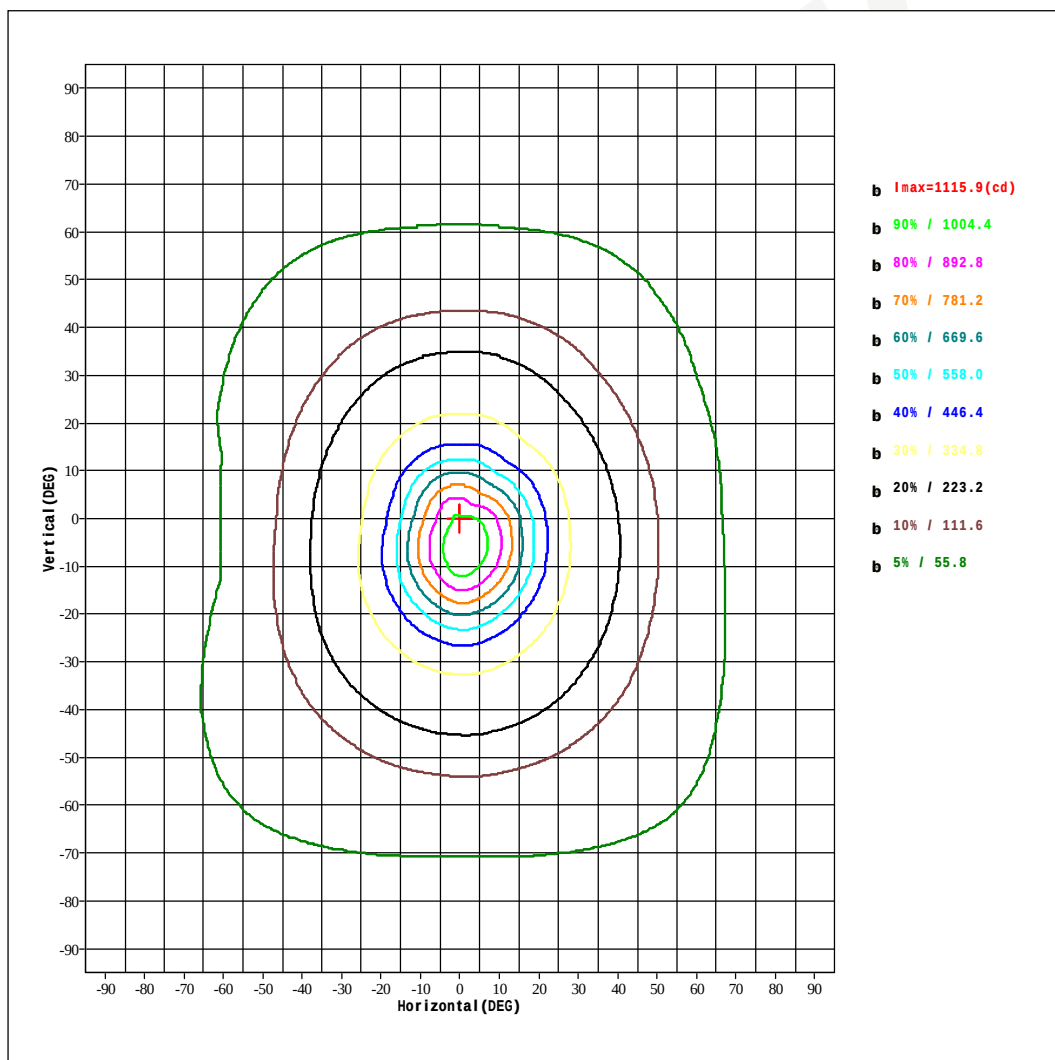
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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

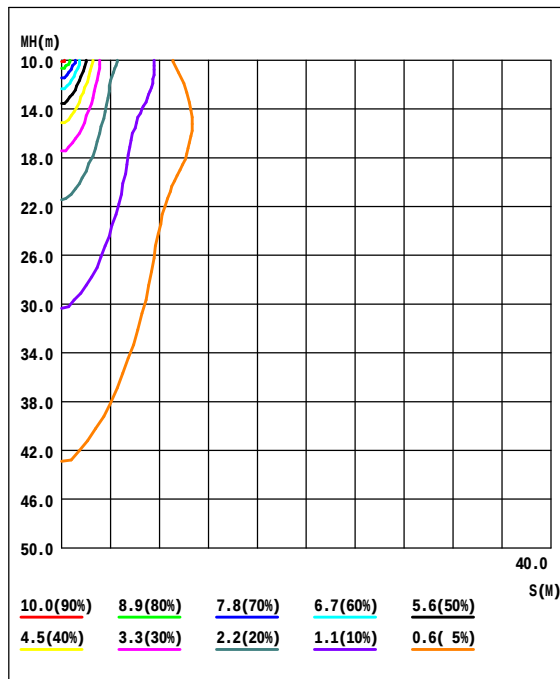
Humidity(%): 60

Date: 2026-1-22

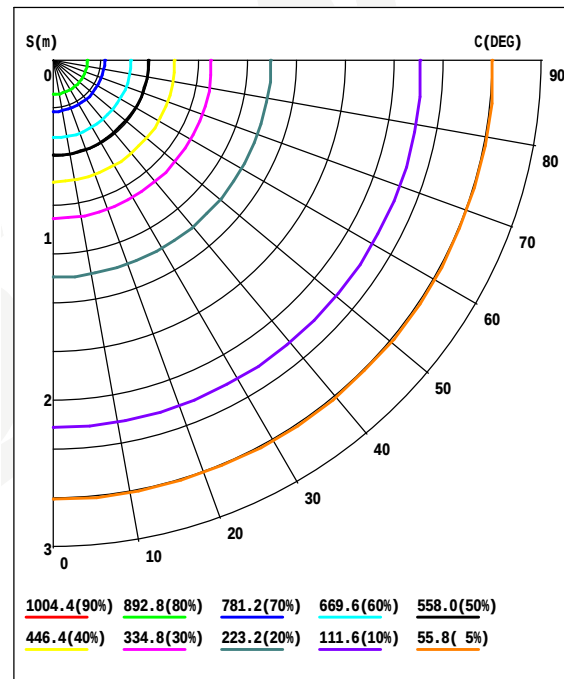
Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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: 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: 2026-1-22

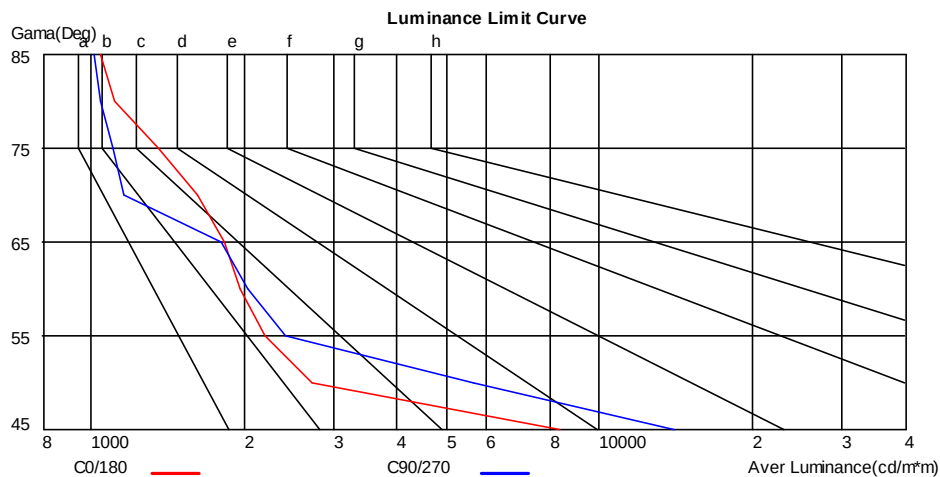
Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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	8351.6	2718.0	2199.6	1959.0	1828.2	1618.0	1349.9	1107.4	1038.8
C90	14076.7	5642.8	2412.8	2032.5	1799.8	1155.9	1099.6	1039.8	1012.8

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

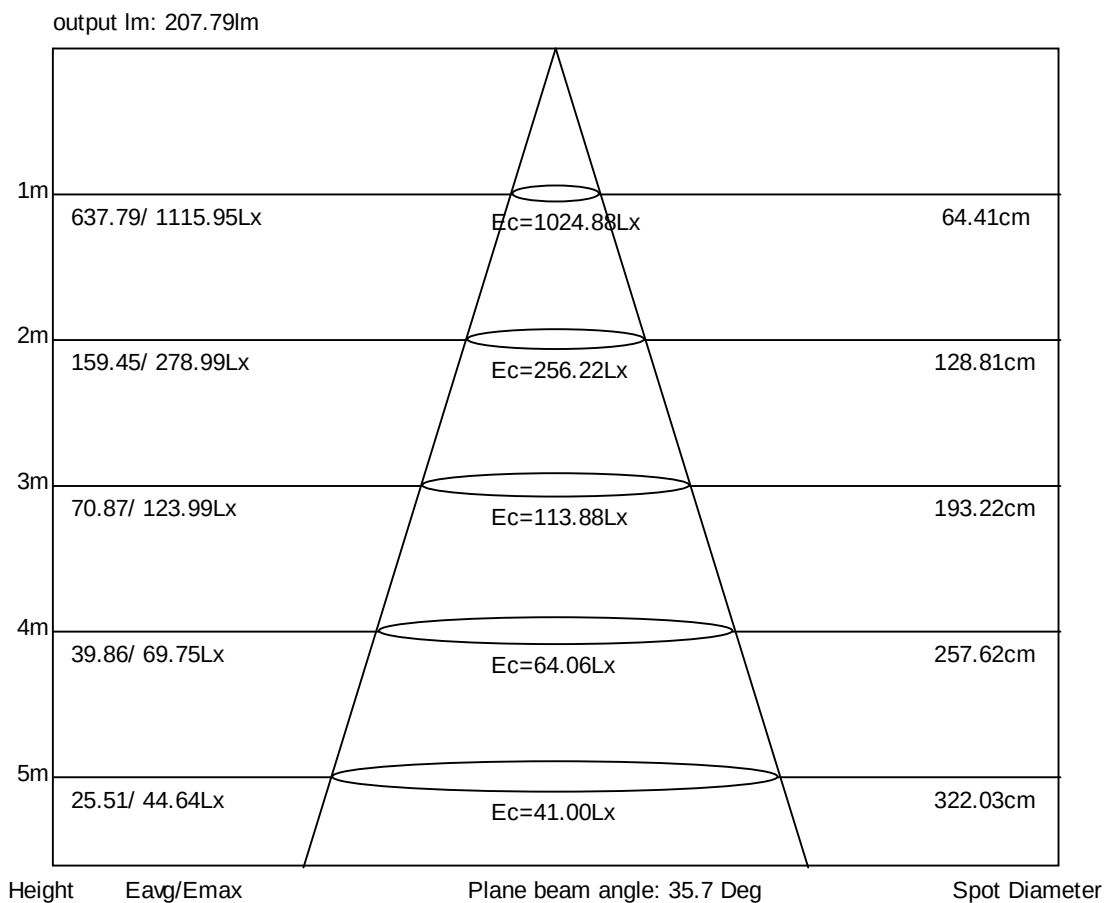
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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

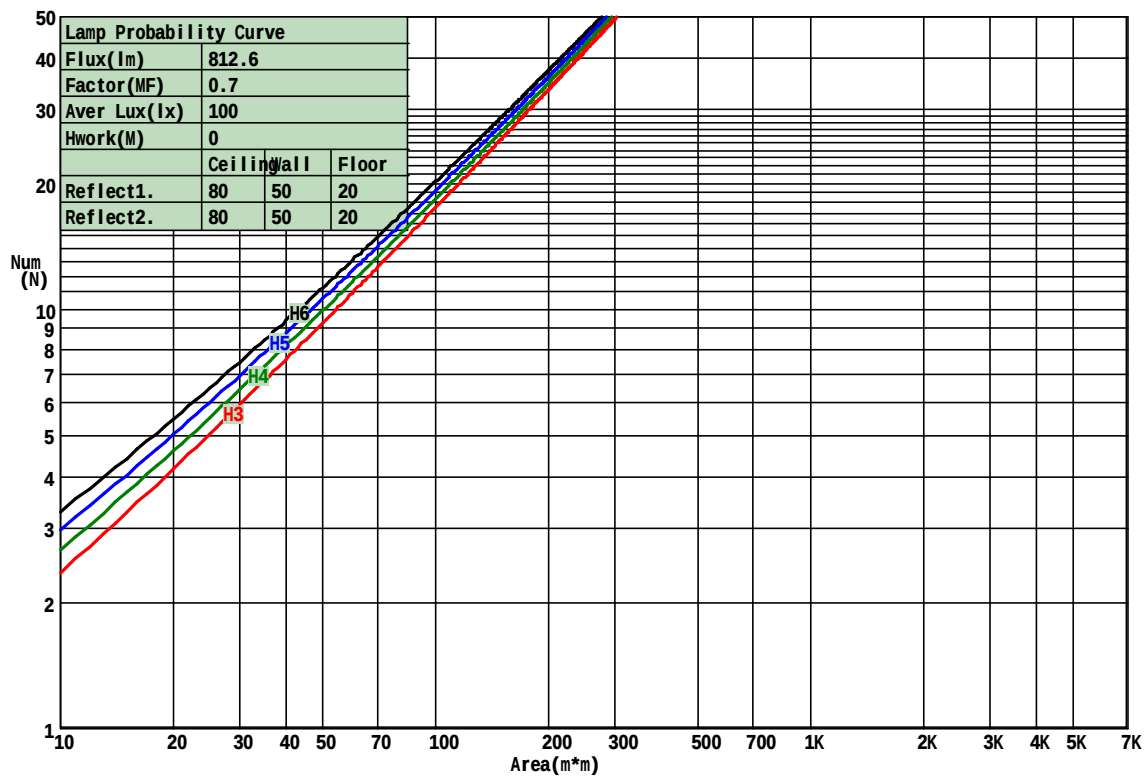
Humidity(%): 60

Date: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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	51	35	26	49	35	26	46	33	25
0.80	54	37	25	52	36	25	47	34	24
1.00	56	38	26	54	37	25	49	34	24
1.25	59	40	26	56	38	25	50	35	23
1.50	61	41	26	57	39	25	51	36	23
2.00	64	43	27	60	41	26	53	37	24
2.50	66	45	28	61	42	26	54	38	24
3.00	67	46	28	63	43	27	54	38	24
4.00	69	48	30	64	45	28	56	40	25
5.00	70	50	31	66	46	29	57	40	26

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	1.08	1.05	1.03	1.06	1.03	1.01	1.02	1	0.98	0.98	0.96	0.95	0.95	0.93	0.92
2	0.99	0.94	0.9	0.97	0.93	0.89	0.94	0.9	0.87	0.91	0.88	0.85	0.88	0.86	0.83
3	0.91	0.85	0.8	0.9	0.84	0.8	0.87	0.82	0.78	0.84	0.8	0.77	0.82	0.79	0.76
4	0.84	0.77	0.72	0.83	0.77	0.72	0.8	0.75	0.71	0.78	0.74	0.7	0.76	0.72	0.69
5	0.78	0.71	0.66	0.77	0.7	0.65	0.75	0.69	0.65	0.73	0.68	0.64	0.71	0.67	0.64
6	0.72	0.65	0.6	0.71	0.65	0.6	0.7	0.64	0.6	0.68	0.63	0.59	0.67	0.62	0.59
7	0.67	0.6	0.56	0.66	0.6	0.55	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.54
8	0.63	0.56	0.51	0.62	0.56	0.51	0.61	0.55	0.51	0.6	0.55	0.51	0.59	0.54	0.51
9	0.59	0.52	0.48	0.58	0.52	0.48	0.57	0.52	0.48	0.57	0.51	0.47	0.56	0.51	0.47
10	0.56	0.49	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.44	0.53	0.48	0.44

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: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm															
Lamp Name: LED DOWN LIGHT								Lamp Type:				Weight(kg):			
Lamp ID: LPDL-10GF01-Y								Lamp Spec: LPDL-10GF01-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	0.22	0.13	0.04	0.22	0.12	0.04	0.2	0.12	0.04	0.19	0.11	0.04	0.18	0.1	0.03
2	0.21	0.11	0.04	0.2	0.11	0.03	0.19	0.11	0.03	0.18	0.1	0.03	0.17	0.1	0.03
3	0.2	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	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
6	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02	0.14	0.07	0.02
7	0.15	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
8	0.15	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
9	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	0.02	0.12	0.06	0.02
10	0.13	0.06	0.02	0.13	0.06	0.02	0.13	0.06	0.02	0.12	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	0.08	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	0.06	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: 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: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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	869	903	919	1010	1116	1083	997	861	0-5	23.8	23.8
10	647	691	738	921	1072	1004	871	671	5-10	64.1	87.9
15	463	498	549	741	911	822	682	490	10-15	86.7	175
20	344	363	400	555	690	615	501	360	15-20	91.4	266
25	296	301	317	404	497	439	365	299	20-25	87.1	353
30	269	269	280	320	364	332	300	268	25-30	83.1	436
35	237	235	253	281	304	285	268	241	30-35	82.5	519
40	175	186	214	251	274	254	238	194	35-40	81.5	600
45	83.5	105	141	214	239	225	196	113	40-45	72	672
50	27.2	34	56.4	138	185	156	115	36.9	45-50	51.9	724
55	22	22.4	24.1	56.1	92.5	71.6	40.1	21.5	50-55	28.9	753
60	19.6	19.4	20.3	23.4	28.8	24.3	21.6	18.4	55-60	13.8	767
65	18.3	18	18	20.1	20.9	20.5	18.5	16.7	60-65	9.81	776
70	16.2	16	11.6	18.4	18.2	18	17	14.8	65-70	8.83	785
75	13.5	13.9	11	16.9	16.9	16.1	15.1	13	70-75	8.08	793
80	11.1	11.1	10.4	14.8	14.9	14	13.2	10.4	75-80	7.2	801
85	10.4	10.1	10.1	12.1	12.6	11.6	10.5	9.46	80-85	6.35	807
90	10.6	10.1	10.1	10.3	9.99	10	9.5	9.51	85-90	5.66	813
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: 2026-1-22

Remark:

Measured Para U: 233.0V I: 66.0mA P: 9.60W PF: 0.623 Test LM: 812.58lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-10GF01-Y	Lamp Spec: LPDL-10GF01-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	869	884	899	908	916	939	980	1021	1069	1116	1102	1087	1055	1016	967	906	862	866
10.0	647	666	686	707	728	778	861	938	1006	1072	1042	1011	960	900	827	736	668	657
15.0	463	478	494	515	538	591	678	760	837	911	872	832	776	712	640	553	487	475
20.0	344	352	361	375	392	434	504	570	631	690	657	623	578	526	470	406	358	351
25.0	296	298	300	306	314	336	376	414	456	497	472	445	415	381	351	321	299	297
30.0	269	269	269	272	278	289	307	325	345	364	350	335	321	307	293	279	268	269
35.0	237	236	235	241	249	259	272	284	294	304	296	287	279	272	262	250	240	238
40.0	175	180	185	195	208	222	239	254	264	274	265	256	249	242	229	208	192	183
45.0	83.5	92.8	102	117	133	157	190	216	228	239	233	227	216	203	178	140	109	96.3
50.0	27.2	30.2	33.2	41.4	51.5	74.2	111	143	164	185	172	159	142	124	98	62.6	35.8	31.4
55.0	22	22.2	22.3	23	23.7	31.1	45.6	60.1	76.6	92.5	83.4	73.9	61.3	47	36	27.6	21.5	21.8
60.0	19.6	19.5	19.4	19.7	20.1	21	22.4	24	26.5	28.8	26.9	24.8	23.4	22.2	20.9	19.4	18.5	19
65.0	18.3	18.1	18	18	18	18.5	19.4	20.2	20.6	20.9	20.7	20.5	19.8	19	18.1	17.3	16.9	17.6
70.0	16.2	16.1	16	14.6	12.5	13.1	16.2	18.4	18.3	18.2	18.1	18	17.7	17.2	16.5	15.5	14.9	15.6
75.0	13.5	13.7	13.9	12.9	11.6	12.3	15	16.9	16.9	16.9	16.5	16.2	15.8	15.3	14.6	13.6	13	13.3
80.0	11.1	11.1	11.1	10.9	10.5	11.4	13.3	14.8	14.8	14.9	14.5	14.1	13.8	13.4	12.6	11.3	10.5	10.8
85.0	10.4	10.3	10.1	10.1	10.1	10.6	11.4	12.1	12.4	12.6	12.2	11.7	11.3	10.8	10.3	9.81	9.56	9.98
90.0	10.6	10.4	10.2	10.1	10.1	10.1	10.2	10.2	10.1	9.99	10	10	9.85	9.61	9.5	9.5	9.62	10.1
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
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140.0																		
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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: 2026-1-22

Remark: