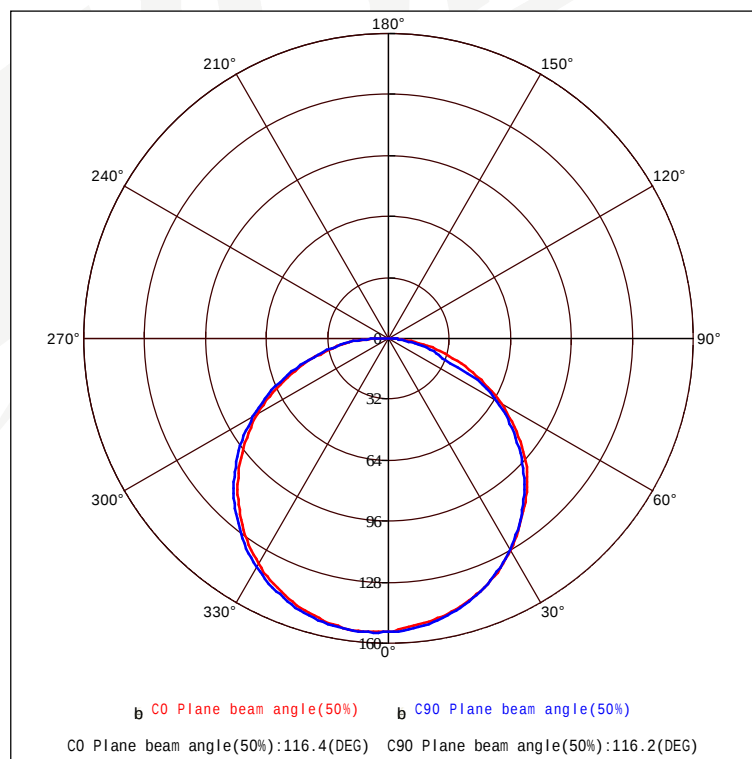


Goniophotometer Test Report

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-06LS01-Y			Lamp Spec: LPDL-06LS01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-06LS01-Y		Peak Value(cd)	154.7	Efficiency(lm/w)	80.0
Nominal P(w)		1.0	Position	270.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	463.992	Down(C0-C180)	48.0
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)	52.0

Planar Intensity Distribution 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

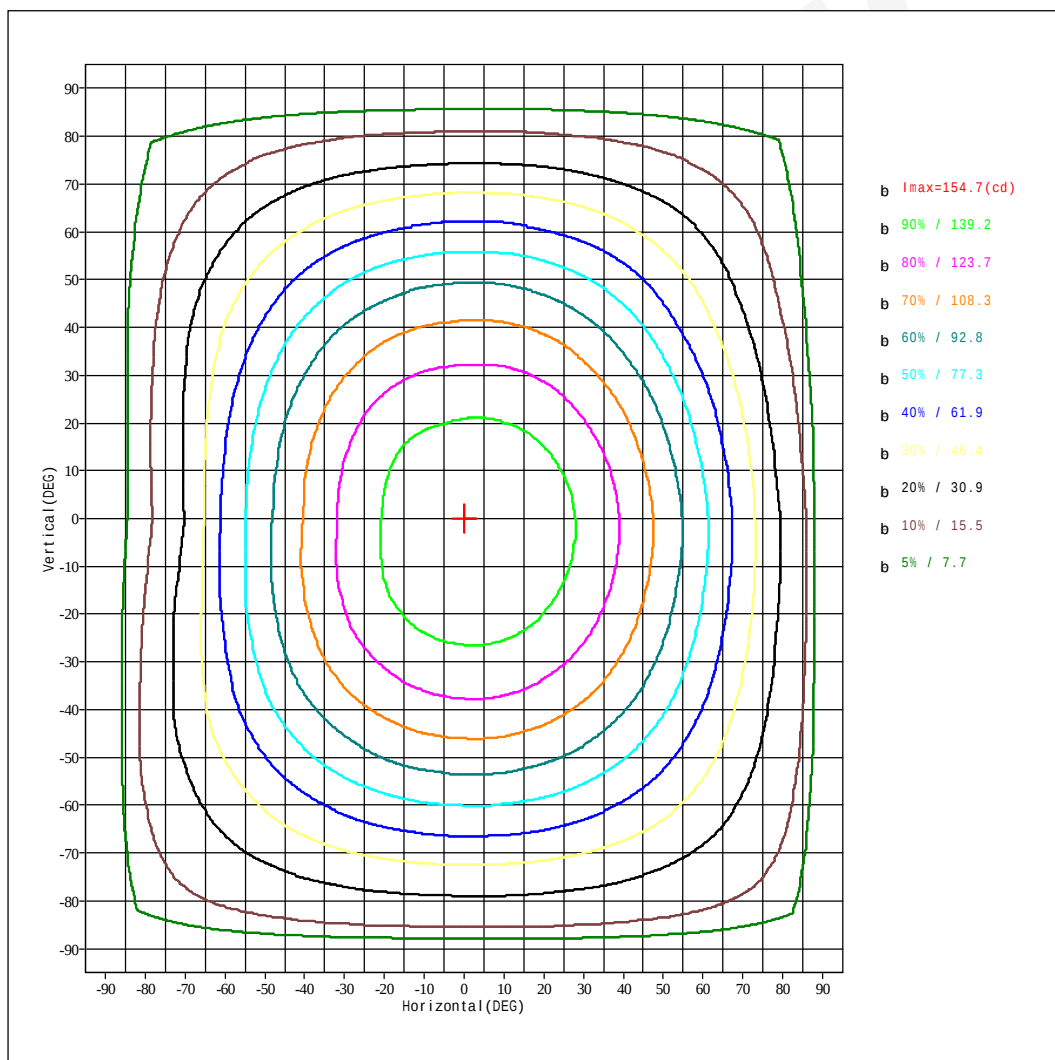
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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

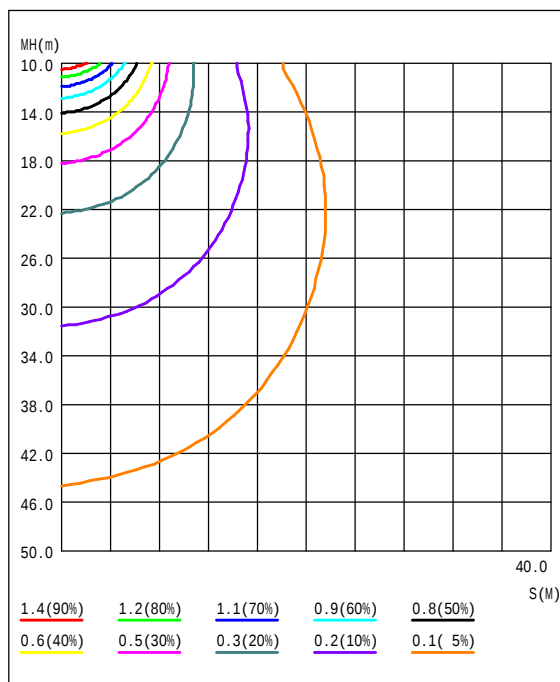
Humidity(%): 60

Date: 2026-6-1

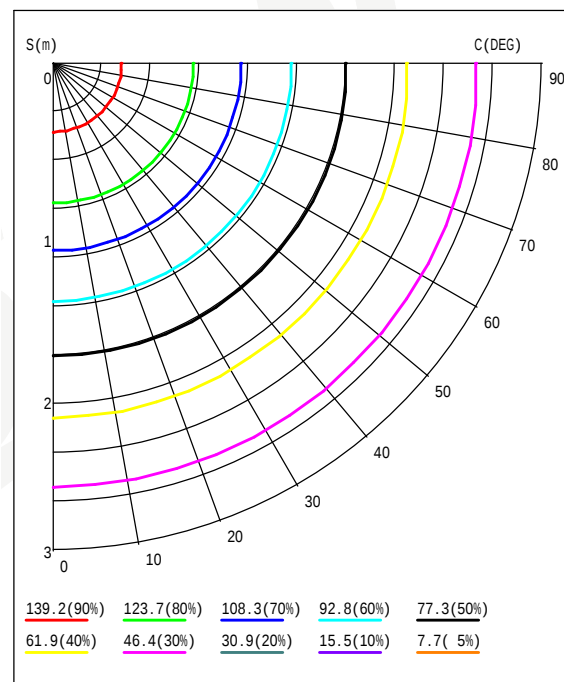
Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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: 2026-6-1

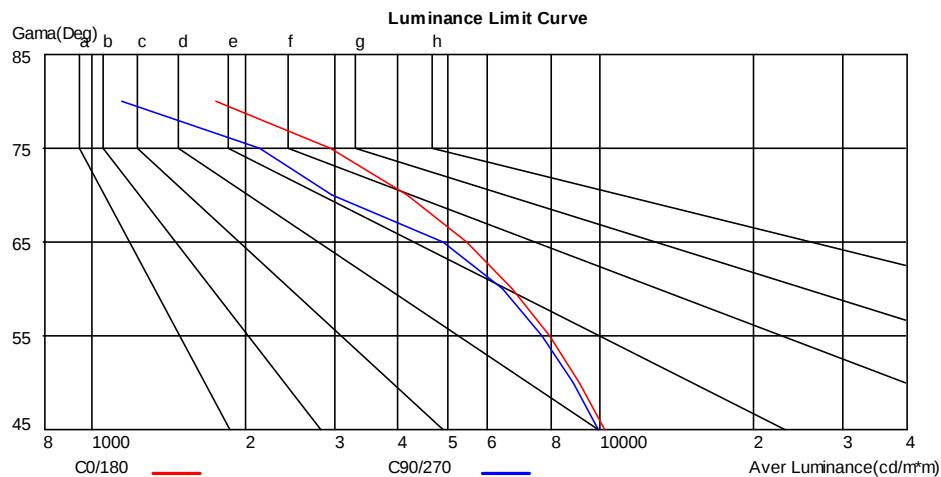
Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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	10212.1	9142.4	7965.4	6726.7	5451.3	4172.4	2938.0	1748.3	713.0
C90	9928.4	8835.2	7661.6	6432.2	4905.9	2951.8	2137.4	1139.7	482.2

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

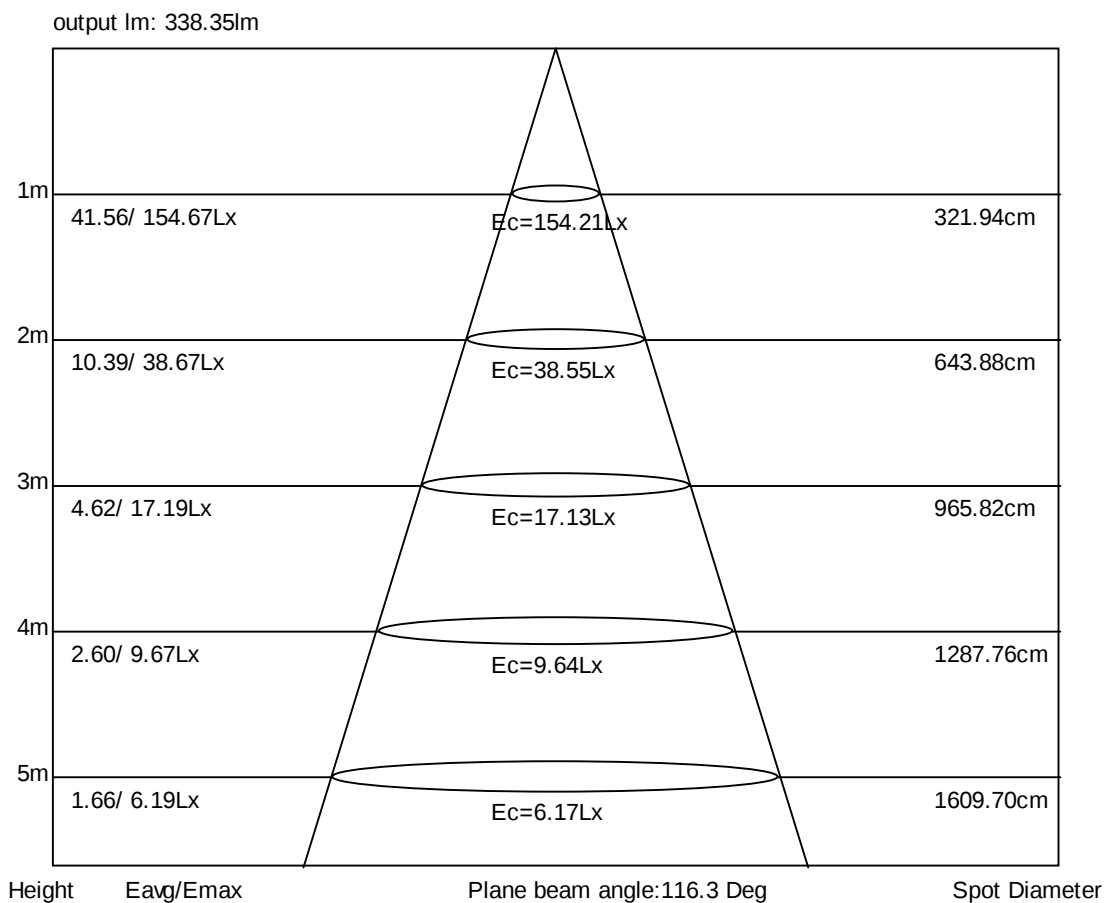
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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

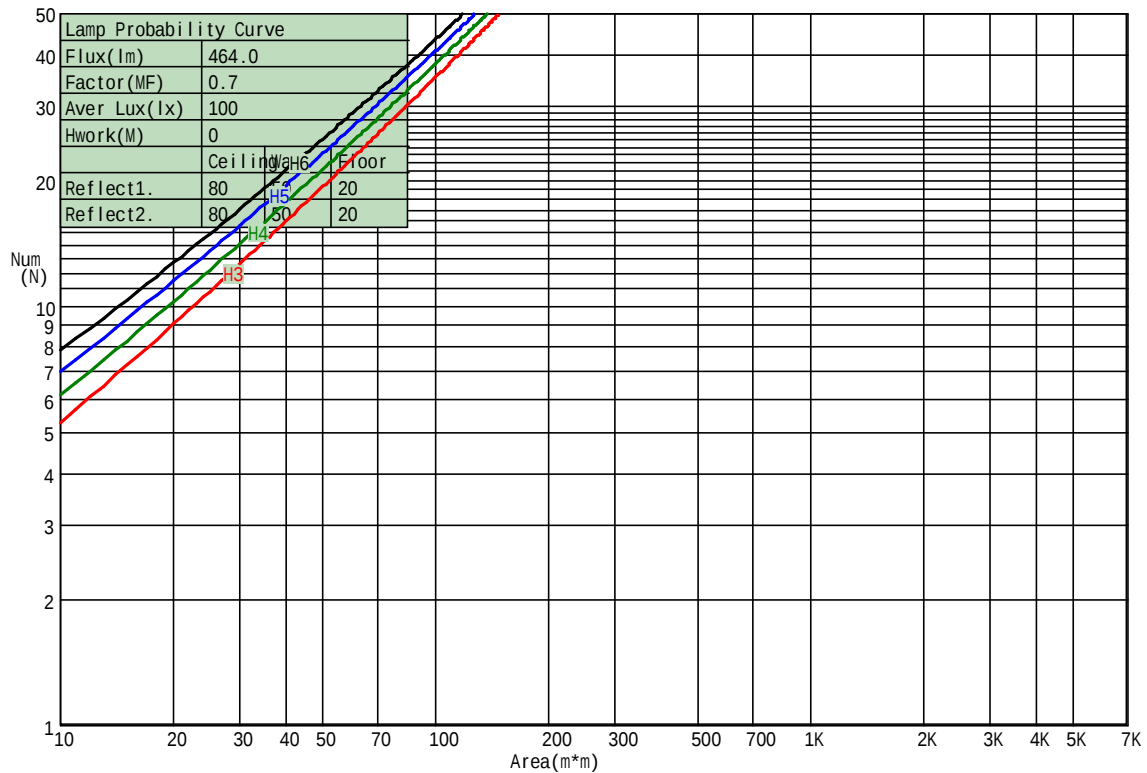
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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	27	50	36	27	47	35	27
0.80	56	40	29	54	39	28	50	37	28
1.00	60	42	30	57	41	30	52	39	28
1.25	62	44	31	60	43	30	54	40	29
1.50	64	46	32	61	44	31	55	41	29
2.00	67	48	33	64	46	32	57	42	30
2.50	69	49	33	65	47	32	57	42	29
3.00	70	50	33	66	47	32	58	42	29
4.00	71	51	33	67	48	32	58	43	29
5.00	72	52	34	67	49	32	58	43	28

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	0.93	0.97	0.93	0.9	0.93	0.9	0.87	0.89	0.87	0.85
2	0.89	0.82	0.76	0.88	0.81	0.75	0.84	0.78	0.74	0.81	0.76	0.72	0.78	0.74	0.7
3	0.78	0.7	0.63	0.77	0.69	0.63	0.74	0.67	0.61	0.71	0.65	0.6	0.68	0.63	0.59
4	0.69	0.6	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.57	0.51	0.61	0.55	0.51
5	0.62	0.52	0.46	0.61	0.52	0.45	0.58	0.51	0.45	0.56	0.5	0.44	0.55	0.49	0.44
6	0.55	0.46	0.4	0.54	0.46	0.4	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.35	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	0.36	0.31	0.41	0.35	0.3
9	0.42	0.34	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27
10	0.39	0.31	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.3	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: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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	0.32	0.18	0.06	0.3	0.17	0.06	0.29	0.17	0.05	0.28	0.16	0.05
2	0.3	0.17	0.05	0.3	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	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	0.13	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	0.12	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	0.21	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	0.18	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	0.09	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: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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	151	153	153	154	155	155	155	154	0-5	3.68	3.68
10	149	150	150	152	153	153	154	152	5-10	10.9	14.6
15	145	146	146	149	151	151	152	149	10-15	17.8	32.4
20	141	141	141	145	147	148	148	144	15-20	24.1	56.5
25	135	135	134	139	142	143	144	139	20-25	29.7	86.2
30	128	128	127	133	136	137	138	132	25-30	34.3	121
35	120	120	119	125	128	130	131	124	30-35	37.8	158
40	111	111	109	117	120	122	123	116	35-40	40.2	199
45	102	101	99.3	107	111	113	114	106	40-45	41.2	240
50	91.4	89.6	88.4	97.2	101	103	104	94.9	45-50	40.9	281
55	79.7	78	76.6	86	89.7	91.4	92.7	83.2	50-55	39.3	320
60	67.3	65.7	64.3	74.2	78	79.6	80.9	70.6	55-60	36.3	356
65	54.5	53.2	49.1	61.8	65.6	67.1	68.2	56.4	60-65	32.1	388
70	41.7	40.6	29.5	49.2	53	54.2	55.1	44.8	65-70	26.5	415
75	29.4	28.5	21.4	36.6	40.5	41.3	41.8	32	70-75	20.9	436
80	17.5	17.6	11.4	24.6	28.4	28.8	29.1	19.8	75-80	15	451
85	7.13	6.11	4.82	12.9	17.3	16.9	17.7	9.26	80-85	8.99	460
90	2.97	3.02	2.94	4.2	5.88	9.01	6.62	3.18	85-90	4.1	464
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: 2026-6-1

Remark:

Measured Para U: 232.4V I: 47.0mA P: 5.80W PF: 0.533 Test LM: 463.99lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-Y	Lamp Spec: LPDL-06LS01-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	151	152	153	153	153	153	154	154	154	155	155	155	155	155	154	154	154	152
10.0	149	149	150	150	150	150	151	152	153	153	153	153	154	154	153	153	152	150
15.0	145	146	146	146	146	147	148	149	150	151	151	151	151	152	151	150	148	147
20.0	141	141	141	141	141	142	143	145	146	147	147	148	148	148	147	146	144	142
25.0	135	135	135	135	135	135	138	140	141	142	142	143	143	144	143	140	138	137
30.0	128	128	128	128	127	128	131	133	135	136	136	137	137	138	137	134	132	130
35.0	120	120	120	119	119	120	123	126	127	128	129	130	130	131	129	127	124	122
40.0	111	111	111	110	110	111	114	117	119	120	121	122	122	123	121	118	115	113
45.0	102	101	101	100	99.6	101	105	108	109	111	112	112	113	114	112	108	105	104
50.0	91.4	90.6	89.8	89.2	88.6	90.3	94.3	97.6	99.2	101	102	102	103	103	102	97.8	94.5	93
55.0	79.7	78.9	78.1	77.5	76.9	78.7	82.9	86.4	88.1	89.7	90.5	91.3	91.9	92.5	90.7	86.4	82.8	81.2
60.0	67.3	66.6	65.9	65.2	64.6	66.5	71	74.6	76.3	78	78.7	79.4	80	80.6	78.6	74	70.2	68.7
65.0	54.5	53.9	53.3	51.8	50	51.8	57.6	62.2	64	65.6	66.3	66.9	67.5	68	65.7	60.3	56.2	55.4
70.0	41.7	41.2	40.7	37	31.9	33.8	42.7	49.6	51.3	53	53.5	54.1	54.5	54.9	52.8	48.2	44.5	43.1
75.0	29.4	29	28.6	26.2	22.9	24.7	31.6	37	38.8	40.5	40.8	41.2	41.5	41.7	39.7	35.2	31.7	30.5
80.0	17.5	17.5	17.6	15.6	12.8	14.3	20.3	25	26.7	28.4	28.6	28.7	28.9	29	27.1	22.9	19.6	18.5
85.0	7.13	6.68	6.22	5.69	5.1	6.58	10.2	13.4	15.4	17.3	17.1	16.9	17.1	17.5	15.8	12	9.02	8.06
90.0	2.97	2.99	3.02	3	2.96	3.22	3.79	4.38	5.15	5.88	7.25	8.66	8.22	7.15	5.87	4.31	3.15	3.06
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: 2026-6-1

Remark: