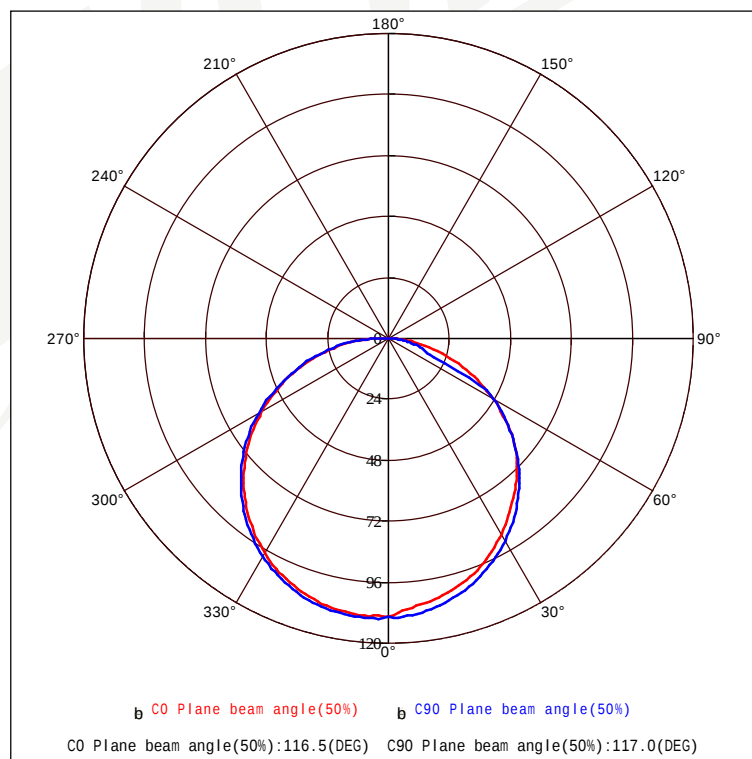


Goniophotometer Test Report

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-06LS01-F			Lamp Spec: LPDL-06LS01-F		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-06LS01-F		Peak Value(cd)	110.6	Efficiency(lm/w)	54.1
Nominal P(w)		1.0	Position	225.0,4.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	329.965	Down(C0-C180)	47.9
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)	52.1

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

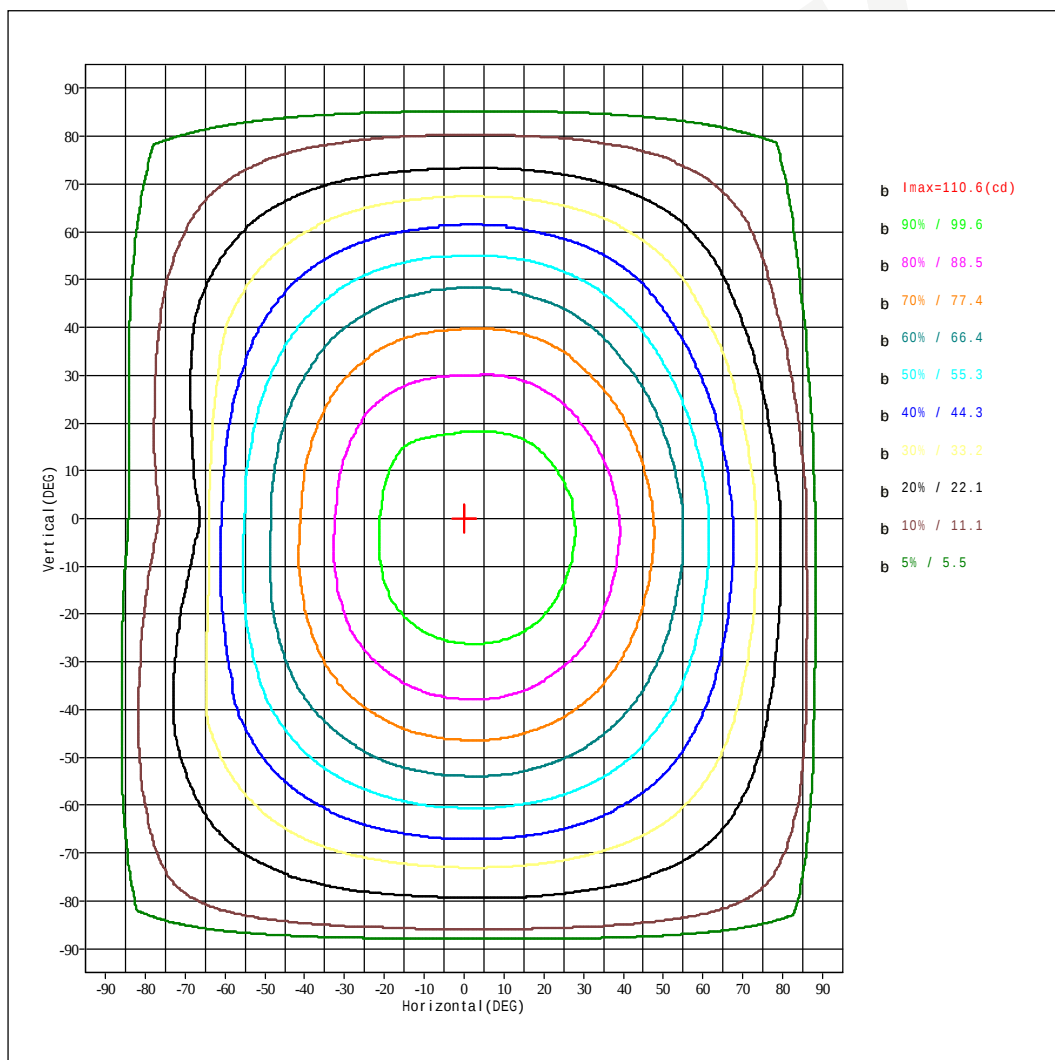
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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

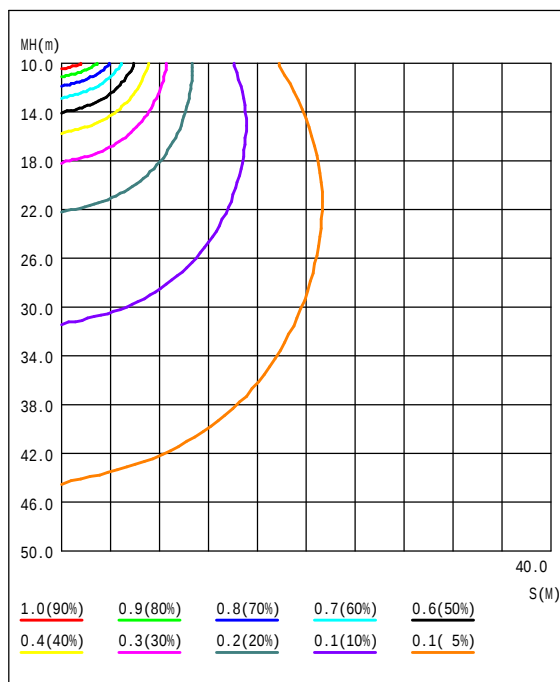
Humidity(%): 60

Date: 2026-6-1

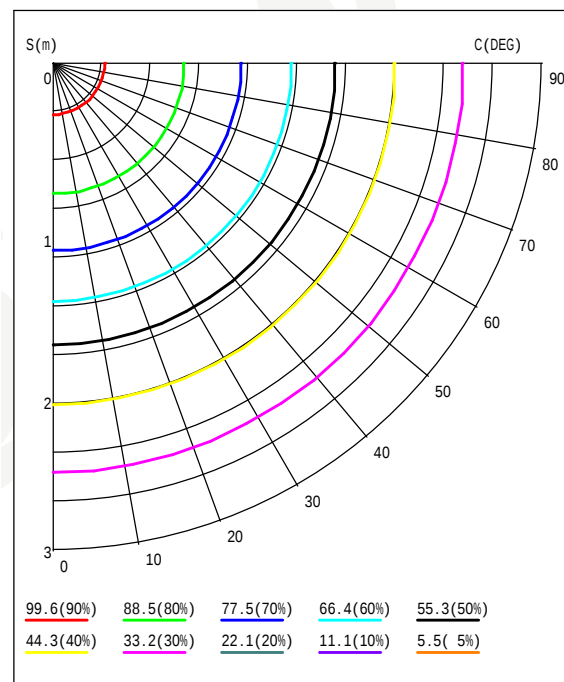
Remark:

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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

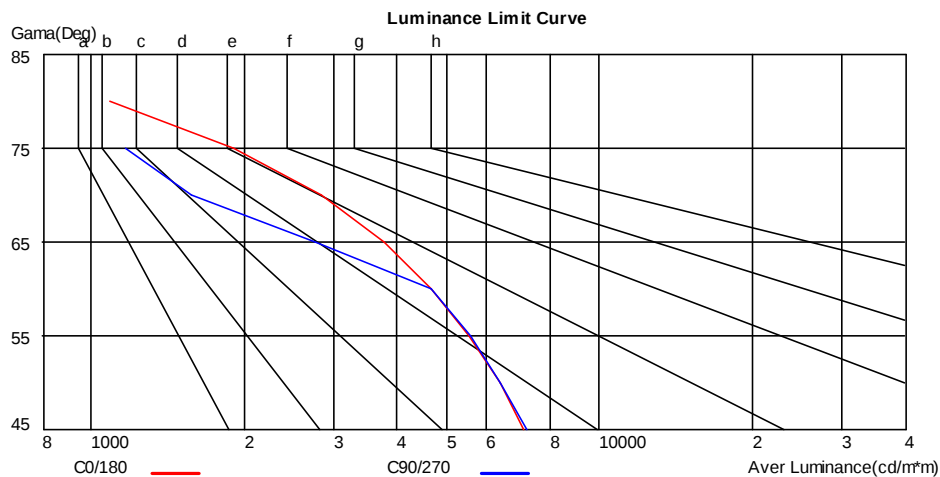
Remark:

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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	7111.4	6382.3	5546.8	4671.2	3758.8	2841.0	1905.6	1082.9	506.7
C90	7187.8	6405.8	5570.3	4679.5	2748.9	1575.4	1168.2	723.2	397.9

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

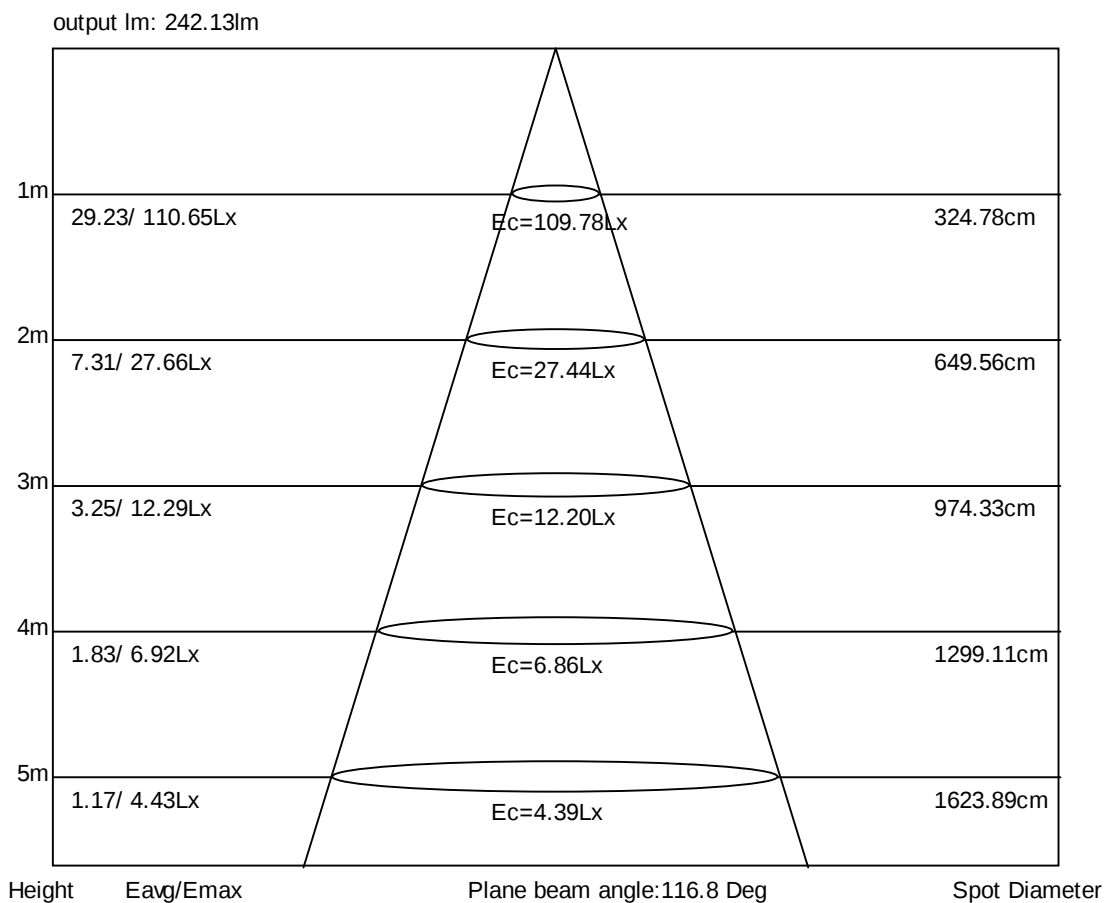
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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

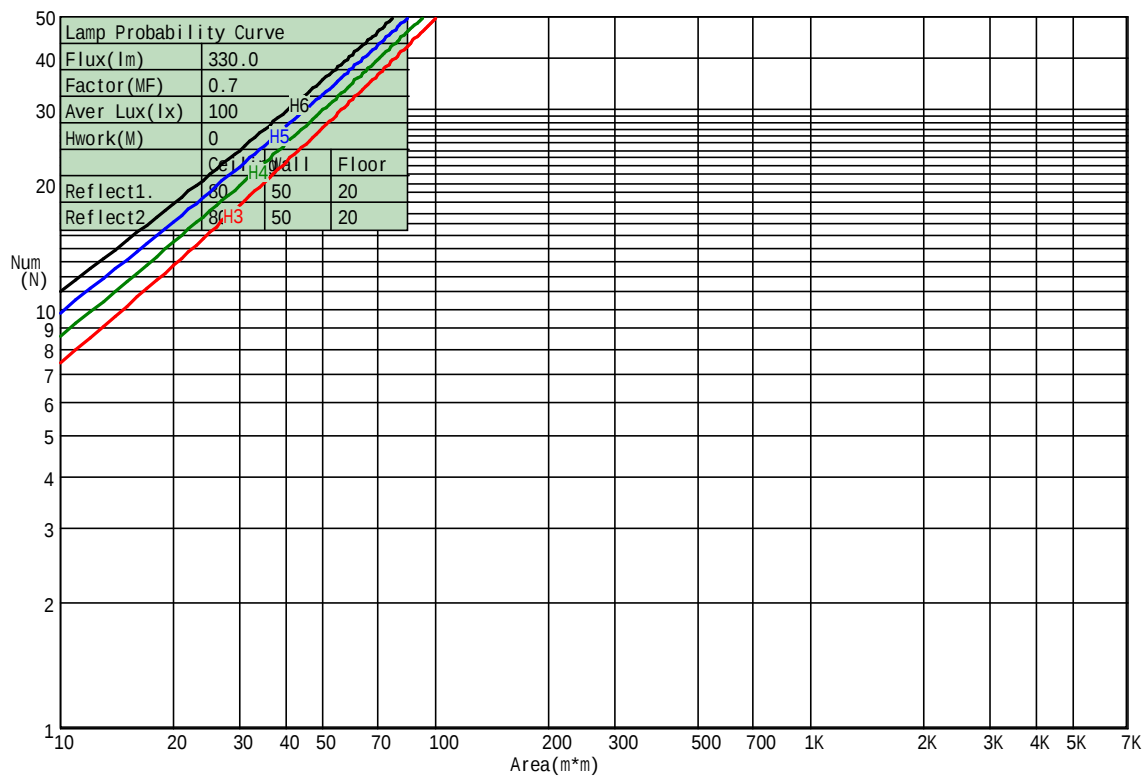
Humidity(%): 60

Date: 2026-6-1

Remark:

Measured Para U: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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	36	27	50	36	27	47	34	26
0.80	56	39	28	54	38	28	50	37	27
1.00	59	42	30	57	41	29	52	38	28
1.25	62	44	31	59	42	30	54	39	28
1.50	64	46	31	61	44	30	55	40	29
2.00	67	48	32	63	46	31	56	41	29
2.50	68	49	32	64	46	31	57	42	29
3.00	70	50	33	65	47	31	57	42	28
4.00	71	51	33	66	48	31	58	42	28
5.00	72	51	33	67	48	31	58	42	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	0.9	0.82	0.76	0.88	0.81	0.76	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	0.64	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	0.53	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	0.55	0.46	0.4	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.39
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.35	0.46	0.4	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: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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	0.16	0.05	0.29	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	0.08	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	0.04	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: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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	106	109	109	109	110	111	110	109	0-5	2.62	2.62
10	104	107	107	108	109	110	110	108	5-10	7.77	10.4
15	101	105	105	106	107	108	108	105	10-15	12.7	23.1
20	98.1	101	101	103	105	106	106	102	15-20	17.2	40.2
25	93.7	96.7	96.6	99.6	101	103	103	98.1	20-25	21.1	61.4
30	88.5	91.4	91.4	95.3	97	98.3	98.6	93.2	25-30	24.4	85.8
35	82.7	85.4	85.6	90	91.9	93.4	93.5	87.5	30-35	27	113
40	76.9	78.9	79.1	84	86.2	87.6	87.8	81.2	35-40	28.6	141
45	71.1	71.6	71.9	77.4	79.7	81.1	81.5	74.1	40-45	29.4	171
50	63.8	63.8	64.1	70	72.6	74	74.4	66.4	45-50	29.2	200
55	55.5	55.4	55.7	62.1	64.9	66.2	66.6	58.1	50-55	28.1	228
60	46.7	46.5	46.8	53.6	56.7	57.8	58.3	49.3	55-60	26	254
65	37.6	37.5	27.5	44.7	48	49.1	49.1	39.3	60-65	22.9	277
70	28.4	28.3	15.8	35.4	39	39.9	39.9	30.9	65-70	18.5	296
75	19.1	19.6	11.7	26.5	29.8	30.5	30.5	21.6	70-75	14.6	310
80	10.8	11	7.23	17.8	20.9	21.1	21.4	12.7	75-80	10.4	321
85	5.07	4.07	3.98	9.17	11.9	12.5	12.5	5.97	80-85	6.3	327
90	2.82	2.84	2.67	3.16	5.37	7.35	5.36	2.25	85-90	3.12	330
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: 230.7V I: 50.0mA P: 6.10W PF: 0.528 Test LM: 329.96lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-06LS01-F	Lamp Spec: LPDL-06LS01-F	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	106	108	109	109	109	109	109	109	110	110	110	110	111	110	110	110	109	107
10.0	104	106	107	107	107	107	108	108	109	109	109	110	110	110	109	108	107	106
15.0	101	103	104	105	105	105	106	106	107	107	108	108	108	108	108	106	105	103
20.0	98.1	99.4	101	101	101	102	103	104	104	105	105	106	106	106	105	103	102	99.8
25.0	93.7	95	96.3	96.6	96.6	97.2	98.6	99.8	100	101	102	102	103	103	102	99.6	97.6	95.6
30.0	88.5	89.7	91.1	91.4	91.4	92.3	94	95.5	96.2	97	97.6	98.2	98.4	98.5	97.4	94.9	92.7	90.5
35.0	82.7	83.9	85.1	85.5	85.6	86.6	88.6	90.2	91.1	91.9	92.6	93.2	93.4	93.4	92.2	89.5	87	84.8
40.0	76.9	77.8	78.7	78.9	79	80.2	82.4	84.3	85.2	86.2	86.8	87.5	87.7	87.8	86.4	83.4	80.7	78.8
45.0	71.1	71.3	71.6	71.7	71.8	73.1	75.6	77.6	78.7	79.7	80.3	81	81.2	81.4	79.9	76.5	73.8	72.4
50.0	63.8	63.8	63.8	63.9	64	65.4	68.1	70.3	71.5	72.6	73.2	73.8	74.1	74.3	72.7	69	66.1	64.9
55.0	55.5	55.4	55.4	55.5	55.6	57.1	60	62.4	63.7	64.9	65.5	66.1	66.4	66.6	64.8	60.9	57.8	56.6
60.0	46.7	46.6	46.5	46.6	46.7	48.3	51.4	54	55.4	56.7	57.2	57.7	58	58.2	56.3	52.2	49	47.8
65.0	37.6	37.5	37.5	34.2	29.7	31.3	39.1	45.1	46.6	48	48.5	48.9	49.1	49.1	46.9	42.5	39.1	38.3
70.0	28.4	28.4	28.3	24.2	18.5	20.1	29	35.8	37.4	39	39.4	39.8	39.9	39.9	37.9	33.8	30.6	29.5
75.0	19.1	19.3	19.6	17	13.4	14.9	21.6	26.9	28.3	29.8	30.1	30.5	30.5	30.5	28.5	24.5	21.3	20.1
80.0	10.8	10.9	11	9.79	8.06	9.55	14.3	18.1	19.5	20.9	21	21.1	21.2	21.3	19.5	15.5	12.5	11.6
85.0	5.07	4.63	4.18	4.04	4	5.11	7.47	9.47	10.7	11.9	12.2	12.4	12.5	12.5	11	8.1	5.87	5.46
90.0	2.82	2.83	2.84	2.78	2.71	2.78	3	3.4	4.4	5.37	6.24	7.14	6.7	5.8	4.68	3.27	2.32	2.57
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: