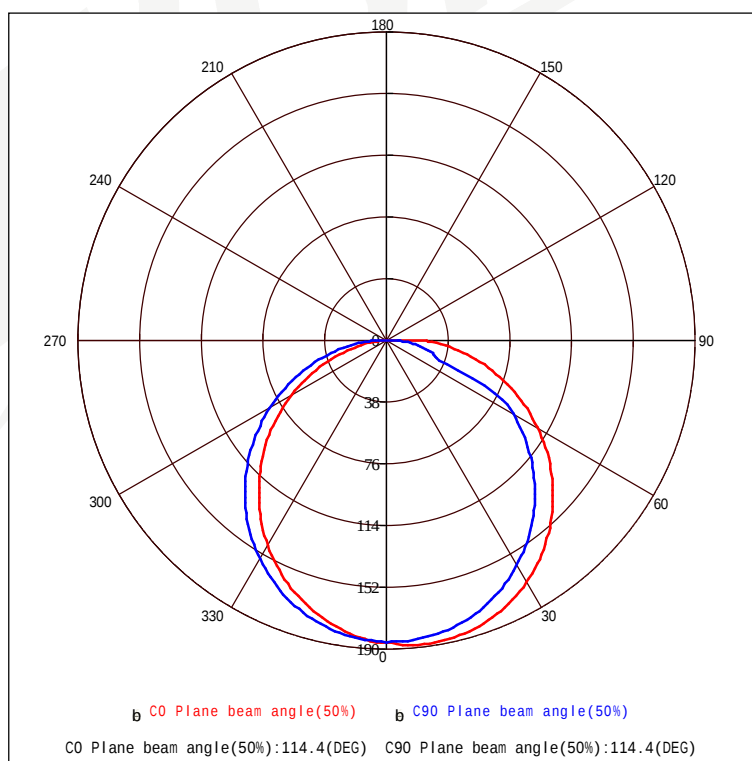


Goniophotometer Test Report

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-06K01-Y			Lamp Spec: LPDL-6A-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-6A-Y		Peak Value(cd)	188.5	Efficiency(lm/w)	98.8
Nominal P(w)		1.0	Position	0.0,8.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	553.478	Down(C0-C180)	50.7
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)	49.3

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

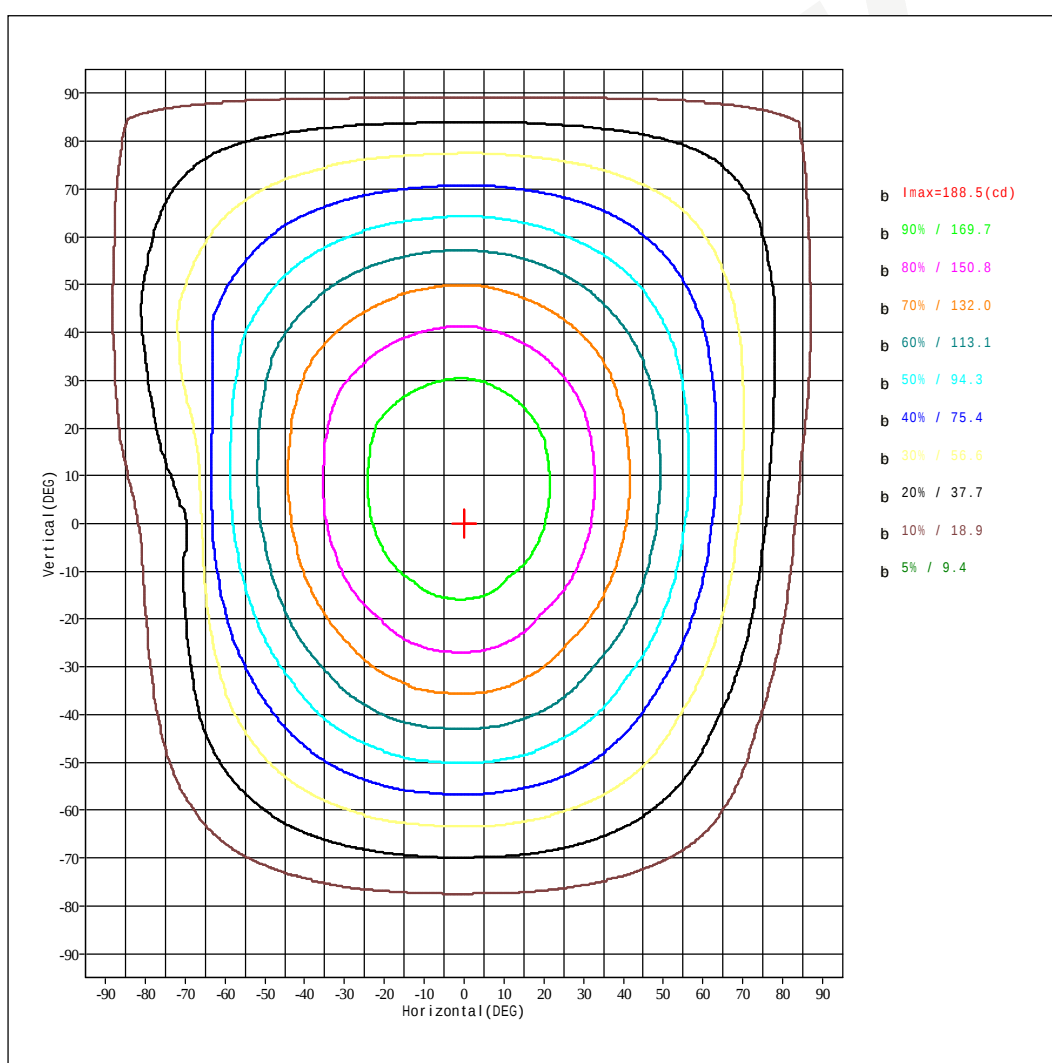
Humidity(%): 60

Date: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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): 25

Tester: zxc

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

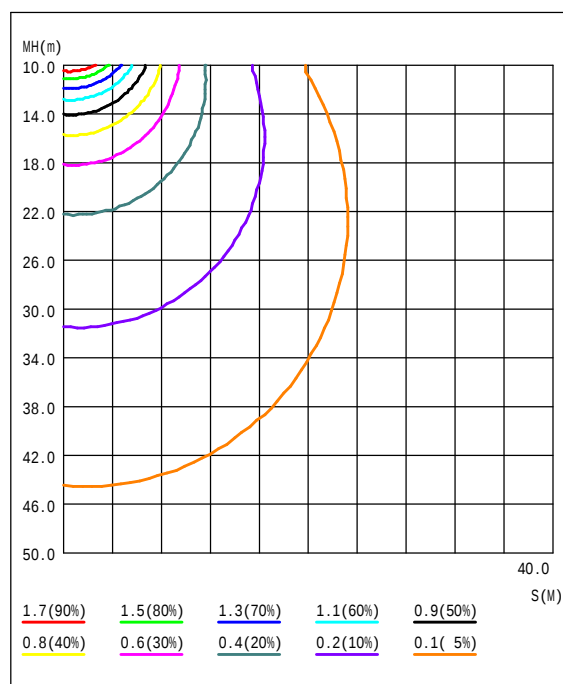
Humidity(%): 60

Date: 2025-2-20

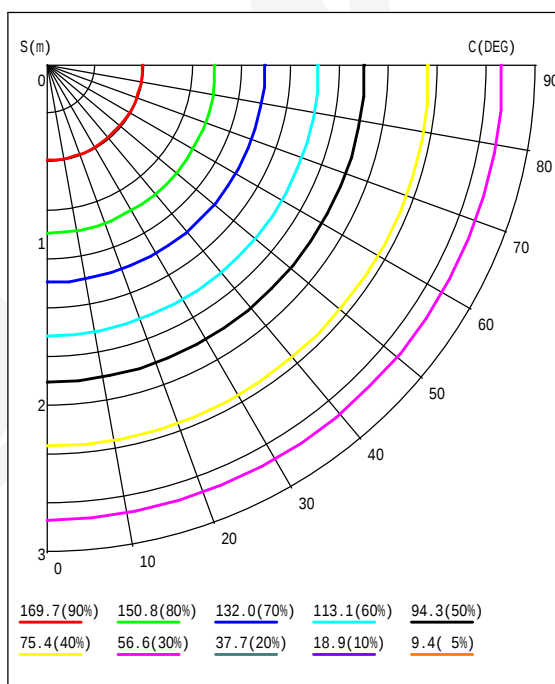
Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-Y	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

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: 2025-2-20

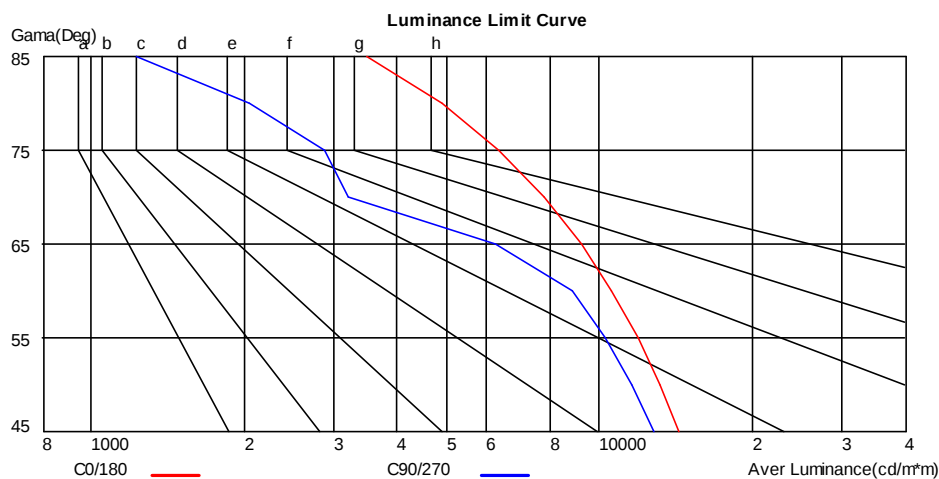
Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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	14363.4	13194.2	11944.7	10613.9	9220.3	7799.8	6348.4	4906.4	3487.3
C90	12814.0	11568.4	10252.8	8863.6	6261.2	3206.6	2877.8	2039.9	1229.9

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): 25

Tester: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

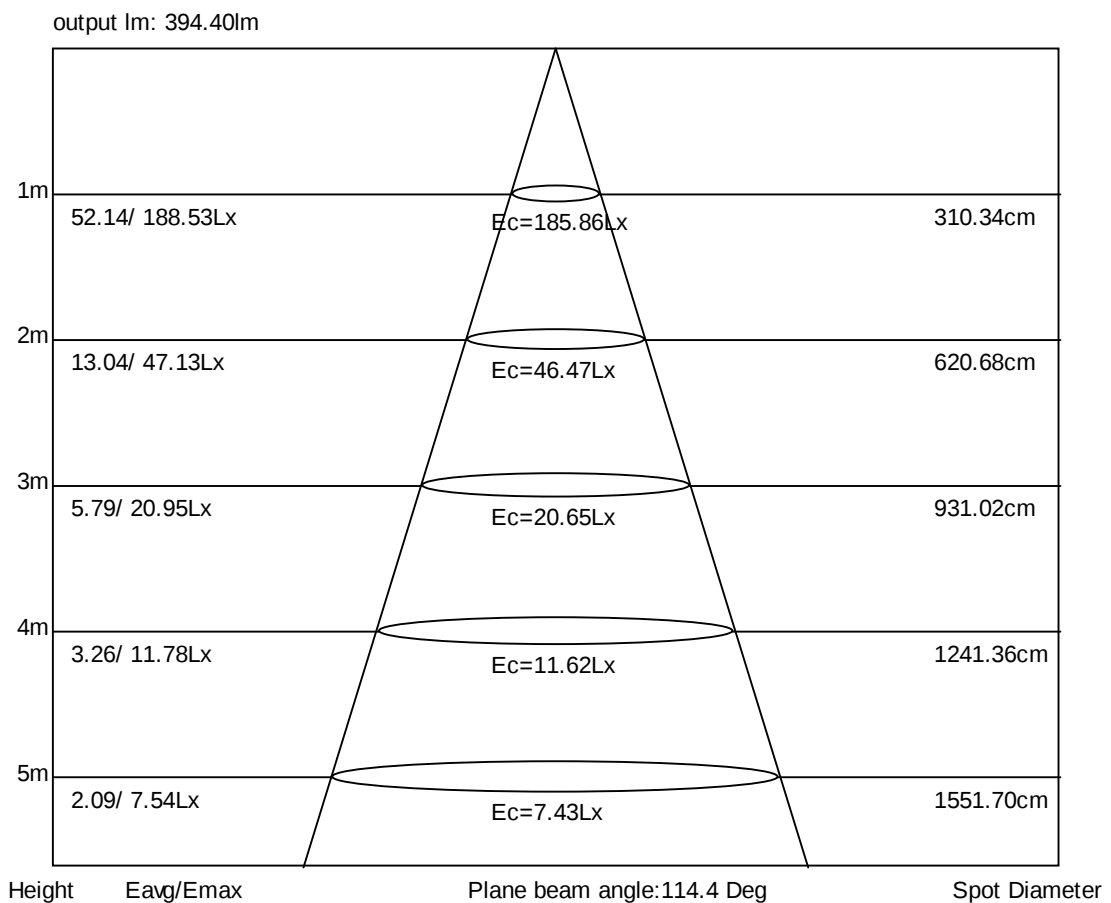
Humidity(%): 60

Date: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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): 25

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

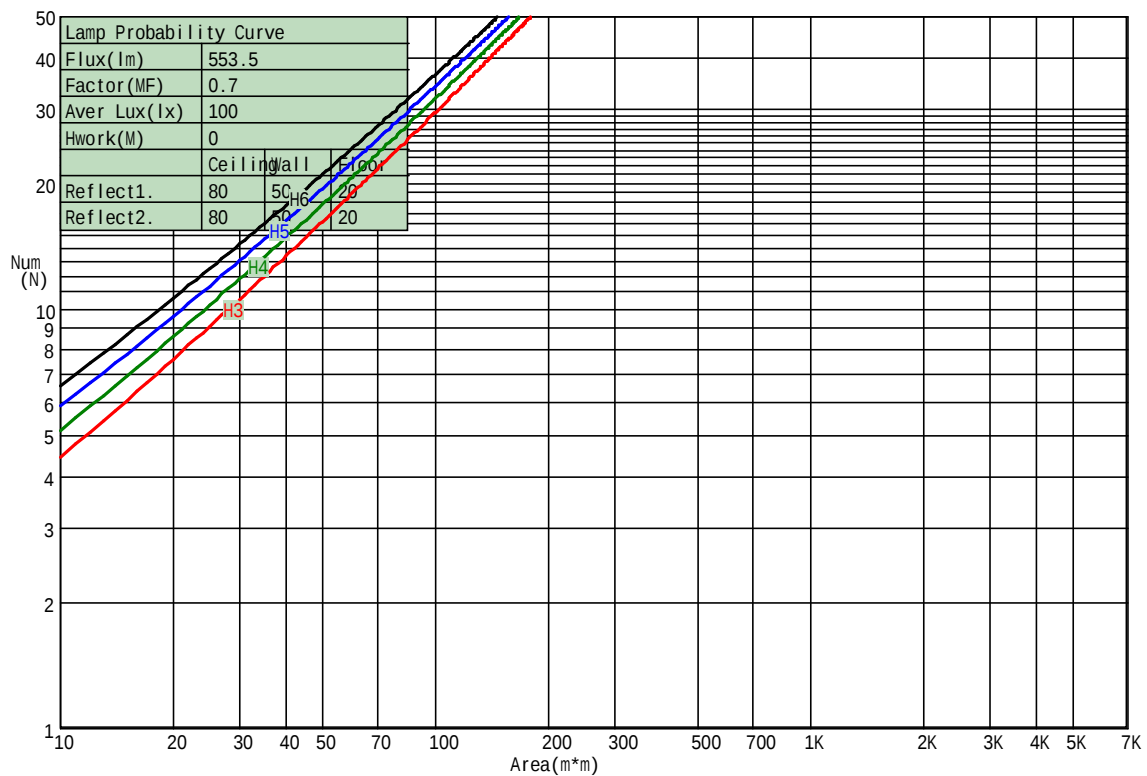
Humidity(%): 60

Date: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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): 25

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: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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	54	39	30	52	38	30	49	37	29
0.80	58	42	32	56	41	31	52	40	30
1.00	62	45	33	59	44	33	55	41	32
1.25	65	47	34	62	46	34	56	43	32
1.50	67	49	35	64	47	34	58	44	33
2.00	70	51	37	66	49	36	59	45	33
2.50	71	52	37	67	50	35	60	45	33
3.00	72	53	37	68	51	36	60	46	33
4.00	74	54	37	69	51	36	61	46	33
5.00	74	55	38	70	52	36	61	46	33

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	0.81	0.75	0.84	0.78	0.73	0.8	0.76	0.72	0.77	0.73	0.7
3	0.78	0.7	0.63	0.76	0.69	0.62	0.73	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	0.56	0.51	0.61	0.55	0.5
5	0.62	0.52	0.45	0.6	0.52	0.45	0.58	0.51	0.45	0.56	0.49	0.44	0.54	0.48	0.44
6	0.55	0.46	0.4	0.54	0.46	0.39	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): 25

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: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm															
Lamp Name: LED DOWN LIGHT								Lamp Type:				Weight(kg):			
Lamp ID: LPDL-6A-Y								Lamp Spec: LPDL-6A-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	0.3	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	0.12	0.04	0.22	0.12	0.04
5	0.24	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): 25

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: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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	188	187	185	183	183	182	184	186	0-5	4.43	4.43
10	188	187	183	179	179	178	181	186	5-10	13.2	17.6
15	187	185	180	174	172	171	177	183	10-15	21.4	39
20	183	182	174	167	164	164	171	179	15-20	29	68
25	178	177	168	158	155	155	163	173	20-25	35.5	103
30	172	170	160	149	145	144	155	166	25-30	40.9	144
35	164	162	150	138	133	133	145	157	30-35	44.9	189
40	154	153	140	126	121	121	133	147	35-40	47.5	237
45	144	142	128	113	108	108	122	136	40-45	48.5	285
50	132	131	116	100	94.3	94.1	109	124	45-50	48	333
55	119	118	103	86.3	80.2	80.1	95.3	111	50-55	46	379
60	106	105	88.6	72.3	65.9	65.8	81.5	97.6	55-60	42.6	422
65	92.2	91.2	62.6	58.1	51.6	51.5	67.4	83.7	60-65	37.9	460
70	78	77	32.1	43.9	37.4	37.3	53.3	69.3	65-70	30.9	491
75	63.5	62.7	28.8	30	23.7	25	39.2	55	70-75	24.7	515
80	49.1	48.3	20.4	18.2	12.8	12.6	25.5	40.8	75-80	18.5	534
85	34.9	34.2	12.3	8.02	4.71	4.54	14.2	28.8	80-85	12.4	546
90	24.5	19.8	7.27	2.22	1.1	1.52	5.02	18.1	85-90	7.24	553
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): 25

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: 2025-2-20

Remark:

Measured Para U: 232.5V I: 44.0mA P: 5.60W PF: 0.552 Test LM: 553.48lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-6A-Y	Lamp Spec: LPDL-6A-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	188	188	187	186	186	185	184	183	183	183	183	182	183	184	185	186	187	187
10.0	188	188	187	186	184	182	181	179	179	179	178	178	179	181	182	184	186	187
15.0	187	186	185	183	181	178	176	173	173	172	172	171	173	176	178	181	183	185
20.0	183	182	182	179	176	173	169	166	165	164	164	164	166	169	173	176	179	181
25.0	178	177	177	174	170	166	161	158	156	155	155	155	157	161	165	170	173	176
30.0	172	171	170	167	162	157	152	148	146	145	145	144	148	152	157	162	166	169
35.0	164	163	162	158	153	147	142	137	135	133	133	133	137	142	147	153	158	161
40.0	154	154	153	148	143	137	130	125	123	121	121	121	125	131	136	143	148	151
45.0	144	143	142	138	131	125	118	113	110	108	108	108	112	119	125	131	137	140
50.0	132	131	131	126	119	112	105	99.5	96.9	94.3	94.2	94.1	98.8	105	112	119	125	128
55.0	119	119	118	113	106	99	91.6	85.6	82.9	80.2	80.1	80.1	85.1	92	98.8	106	112	116
60.0	106	106	105	99.6	92.2	85.1	77.7	71.6	68.7	65.9	65.9	65.8	70.9	78	85	92.3	98.5	102
65.0	92.2	91.8	91.3	81.8	68.9	61.6	59.6	57.4	54.4	51.6	51.5	51.5	56.7	63.9	71	78.3	84.6	88.5
70.0	78	77.6	77.1	62.3	41.9	34.6	40	43.2	40.2	37.4	37.3	37.3	42.5	49.8	56.8	64.1	70.3	74.2
75.0	63.5	63.1	62.8	51.5	36.2	29.1	29.6	29.4	26.5	23.7	24.3	24.9	29.7	36.1	42.7	49.8	55.9	59.8
80.0	49.1	48.7	48.4	39.1	26.5	19.9	18.9	17.6	15.2	12.8	12.7	12.6	16.8	22.7	28.8	35.8	41.7	45.4
85.0	34.9	34.6	34.3	27	17.1	11.4	9.42	7.66	6.16	4.71	4.64	4.56	7.71	12.1	17.4	24	29.4	32.2
90.0	24.5	22.4	20.3	15.7	10	6.17	3.88	2.1	1.59	1.1	1.28	1.47	2.67	4.25	7.88	13.8	18.8	21.7
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): 25

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: 2025-2-20

Remark: