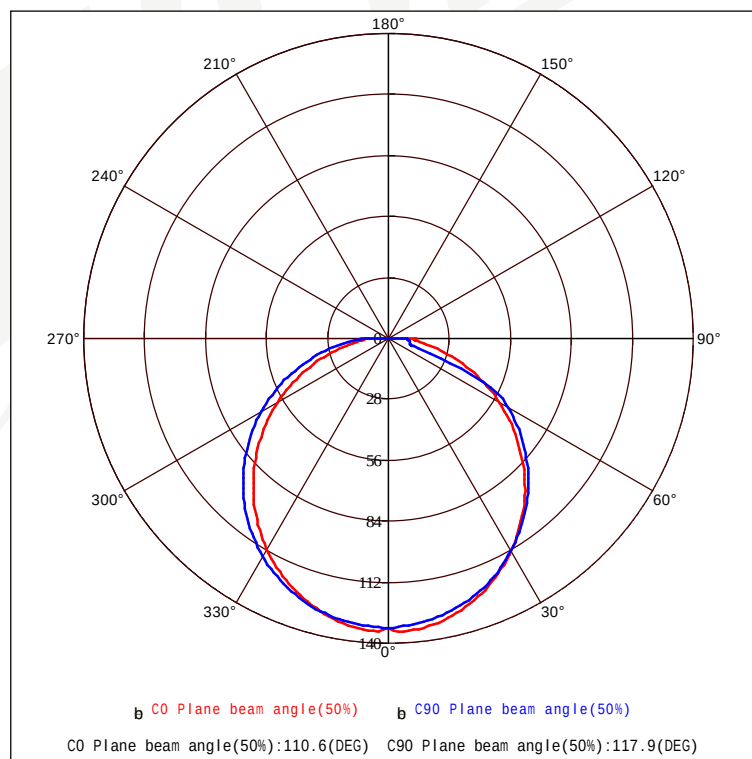


Goniophotometer Test Report

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm						
Lamp Name: LED STEP LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPWL-08B01-Y			Lamp Spec: LPWL-08B01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPWL-08B01-Y		Peak Value(cd)	134.8	Efficiency(lm/w)	54.4
Nominal P(w)		8.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	391.519	Down(C0-C180)	49.4
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)	50.6

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

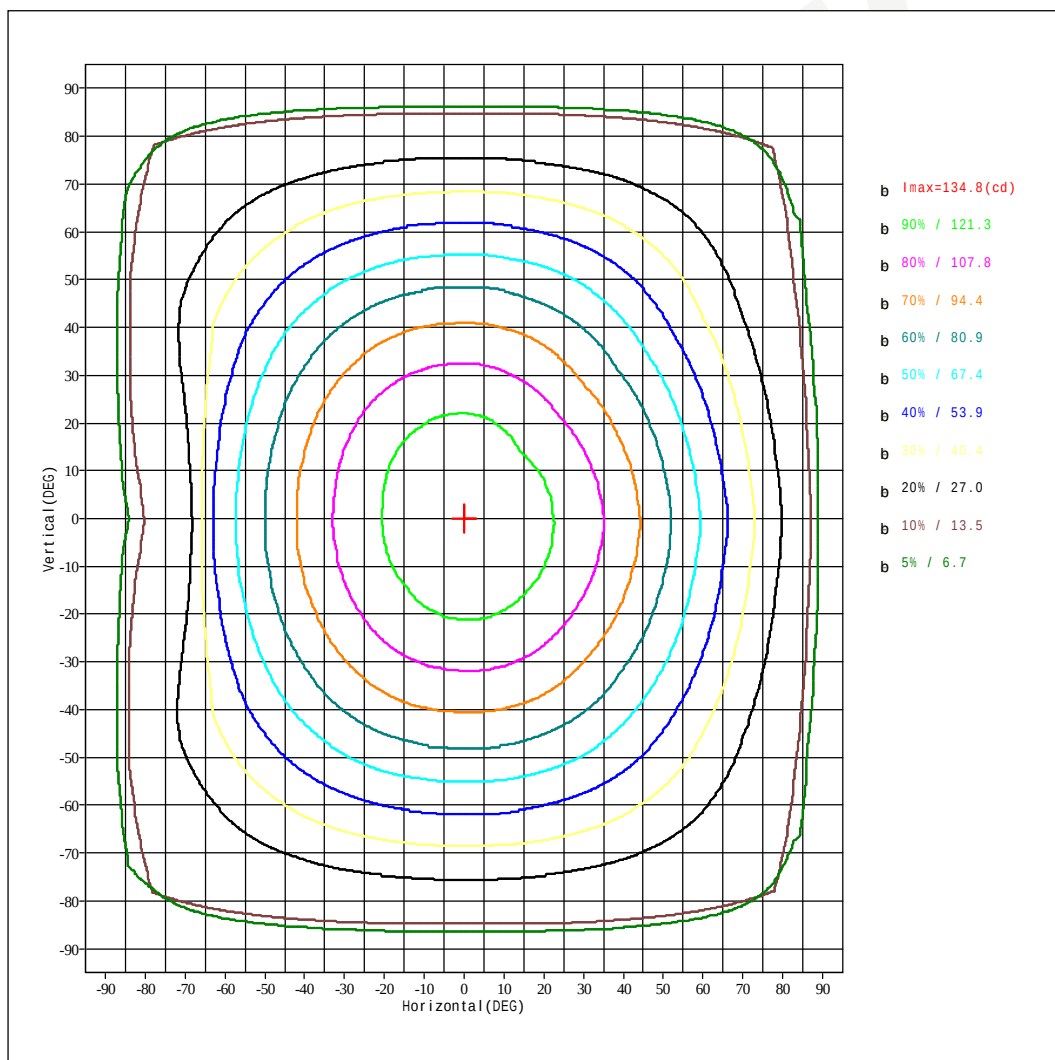
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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

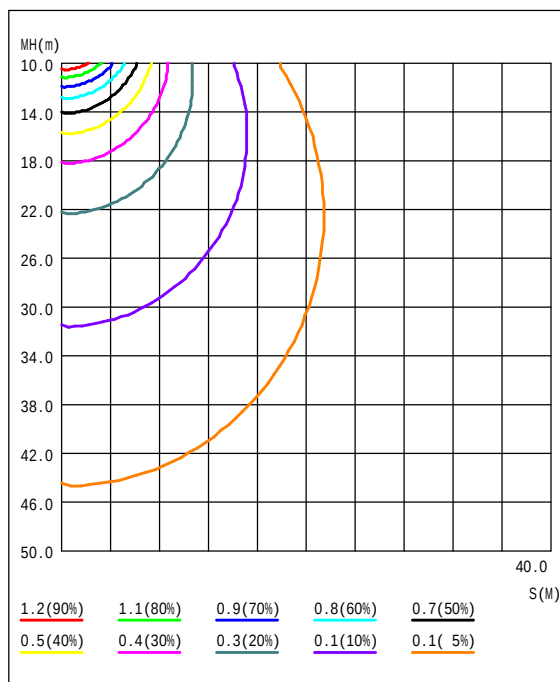
Humidity(%): 60

Date: 2026-2-6

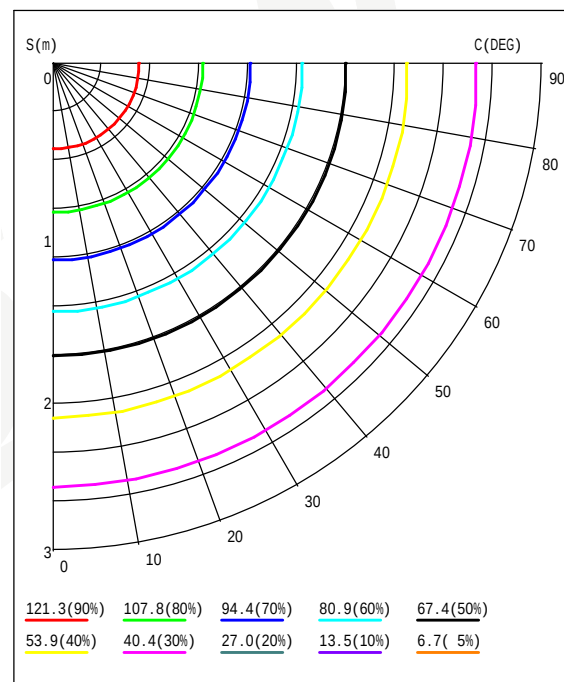
Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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: 2026-2-6

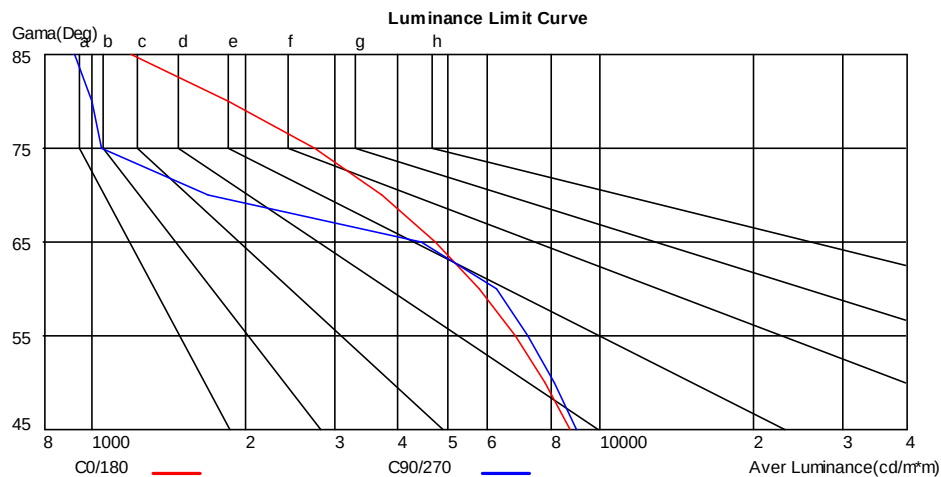
Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-Y	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	8745.5	7796.4	6804.6	5778.6	4740.8	3716.6	2733.2	1857.1	1189.7
C90	9002.8	8135.5	7220.2	6257.3	4445.8	1683.6	1038.3	994.7	923.2

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

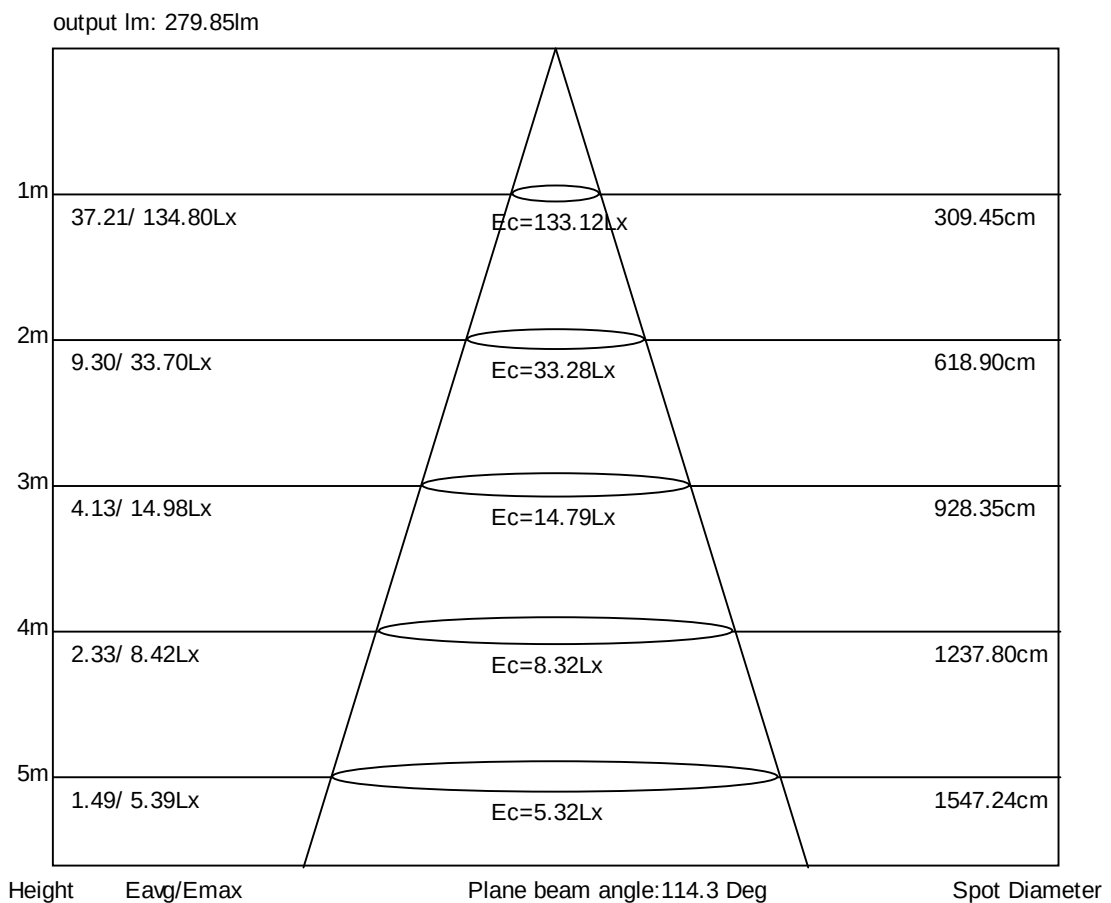
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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

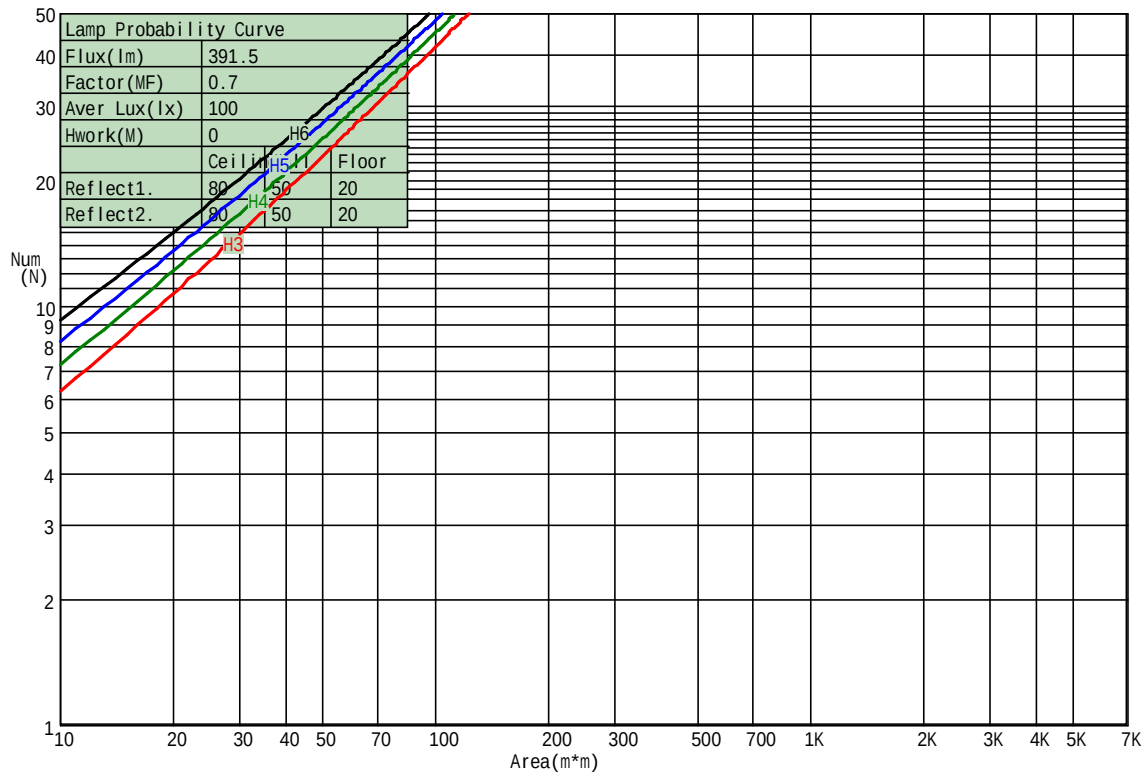
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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	51	36	28	47	35	27
0.80	57	40	29	54	39	29	50	37	28
1.00	60	43	31	57	41	30	53	39	29
1.25	63	45	31	60	43	31	54	40	29
1.50	65	46	32	61	44	31	55	41	29
2.00	68	48	33	64	46	32	57	42	30
2.50	69	49	33	65	47	32	57	42	30
3.00	70	50	34	66	48	32	58	43	29
4.00	72	52	34	67	49	32	59	43	29
5.00	73	52	34	68	49	33	59	43	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	0.9	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	0.77	0.69	0.62	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	0.56	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	0.55	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	0.43	0.36	0.31	0.41	0.35	0.31
9	0.42	0.34	0.28	0.41	0.34	0.28	0.4	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28
10	0.39	0.31	0.25	0.38	0.31	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: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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	0.3	0.17	0.05	0.3	0.16	0.05	0.29	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	0.09	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	0.08	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	0.16	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	0.03	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: 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: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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	134	133	132	131	134	133	132	131	0-5	3.18	3.18
10	132	131	130	129	132	131	131	129	5-10	9.41	12.6
15	129	128	127	126	128	128	128	126	10-15	15.3	27.9
20	124	124	123	122	123	124	125	122	15-20	20.7	48.6
25	119	118	118	117	118	118	120	116	20-25	25.3	73.9
30	112	112	112	111	111	112	115	110	25-30	29.1	103
35	105	105	105	104	104	105	109	103	30-35	31.9	135
40	96.4	97.4	98	96.2	95.5	96.8	101	94.8	35-40	33.7	169
45	87.5	88.9	90	87.9	86.6	88.2	93.6	86.2	40-45	34.4	203
50	78	79.8	81.4	79	77.4	79.1	85.1	76.9	45-50	34	237
55	68	70.3	72.2	69.7	67.7	69.4	76	67.1	50-55	32.5	269
60	57.8	60.3	62.6	60	57.7	59.4	66.5	57.1	55-60	30.1	300
65	47.4	50.3	44.5	50.2	47.5	49.1	56.6	46.8	60-65	26.6	326
70	37.2	40.2	16.8	40.4	37.3	38.8	46.4	36.5	65-70	21.7	348
75	27.3	30.2	10.4	30.8	27.8	28.8	36.4	26.7	70-75	16.6	364
80	18.6	21	9.95	21.7	18.8	19.7	26.7	17.9	75-80	12.4	377
85	11.9	13	9.23	13.5	11.5	11.7	17.5	10.9	80-85	8.48	385
90	12.6	11.4	8.66	10.9	12.6	11.5	9.34	11.6	85-90	6.14	392
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: 2026-2-6

Remark:

Measured Para U: 225.3V I: 55.0mA P: 7.20W PF: 0.575 Test LM: 391.52lm		
Lamp Name: LED STEP LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPWL-08B01-Y	Lamp Spec: LPWL-08B01-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	134	134	133	132	132	132	131	132	133	134	133	133	133	132	132	131	131	133
10.0	132	132	131	131	130	130	130	130	131	132	131	131	131	131	130	130	130	131
15.0	129	128	128	128	127	127	126	127	127	128	128	128	128	128	128	127	126	128
20.0	124	124	124	124	123	123	122	122	123	123	123	124	124	125	124	123	122	123
25.0	119	119	119	118	118	118	117	117	117	118	118	118	119	120	119	118	117	118
30.0	112	112	112	112	112	112	111	111	111	111	111	112	113	114	114	112	110	111
35.0	105	105	105	105	105	105	104	104	104	104	104	105	106	108	107	105	103	104
40.0	96.4	96.8	97.3	97.6	97.9	97.6	96.8	96.1	95.8	95.5	96.1	96.7	98.3	100	100	97	95	95.7
45.0	87.5	88.1	88.7	89.3	89.8	89.6	88.6	87.8	87.2	86.6	87.3	88.1	90	92.4	92	88.6	86.3	86.9
50.0	78	78.8	79.6	80.3	81	80.8	79.8	78.8	78.1	77.4	78.1	78.9	81.1	83.8	83.3	79.6	77.1	77.5
55.0	68	69	70	70.9	71.8	71.7	70.5	69.5	68.6	67.7	68.4	69.2	71.5	74.5	74	70	67.2	67.6
60.0	57.8	58.9	60	61.1	62.1	62	60.9	59.8	58.7	57.7	58.4	59.2	61.7	65	64.5	60.2	57.2	57.5
65.0	47.4	48.7	50	48.4	45.7	45.7	48.3	49.9	48.7	47.5	48.2	48.9	51.5	54.9	54.4	50	46.9	47.2
70.0	37.2	38.5	39.8	32.5	21.9	22	32.7	40	38.7	37.3	38	38.6	41.3	44.7	44.3	39.8	36.6	36.9
75.0	27.3	28.6	29.9	23.7	14.7	14.8	24.1	30.5	29.1	27.8	28.2	28.7	31.3	34.8	34.3	29.9	26.8	27
80.0	18.6	19.6	20.7	17.4	12.4	12.5	17.9	21.4	20.1	18.8	19.2	19.6	22	25.2	24.8	20.8	17.9	18.3
85.0	11.9	12.4	12.9	11.8	10.1	10.2	12.1	13.3	12.4	11.5	11.6	11.7	13.6	16.3	16.1	13.1	11	11.5
90.0	12.6	12.1	11.5	10.5	9.26	9.14	10.1	11	11.8	12.6	12.1	11.6	10.8	9.82	9.84	10.9	11.7	12.2
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
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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: 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: 2026-2-6

Remark: