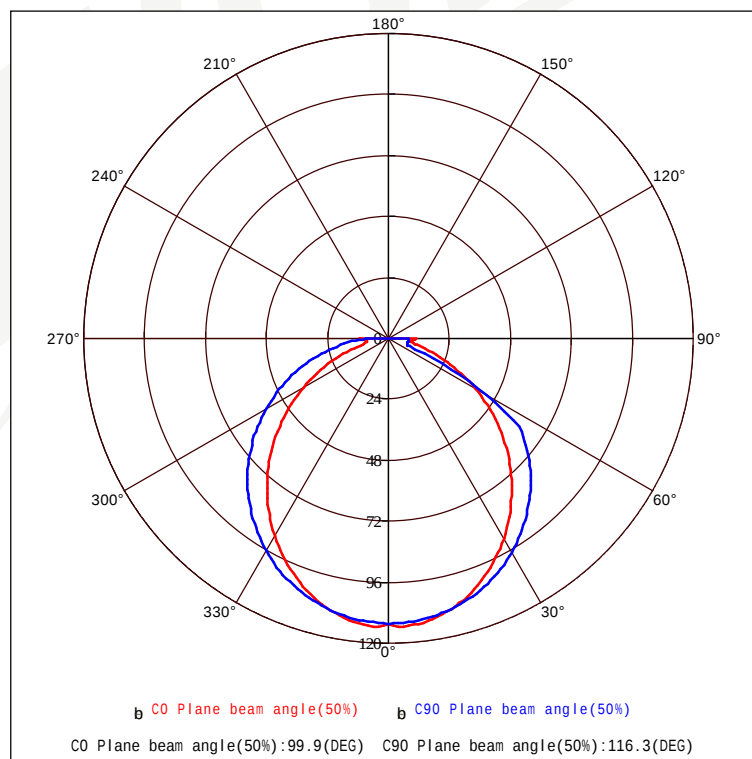


Goniophotometer Test Report

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm						
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)	113.7	Efficiency(lm/w)	42.1
Nominal P(w)		8.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	303.282	Down(C0-C180)	49.8
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)	50.2

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

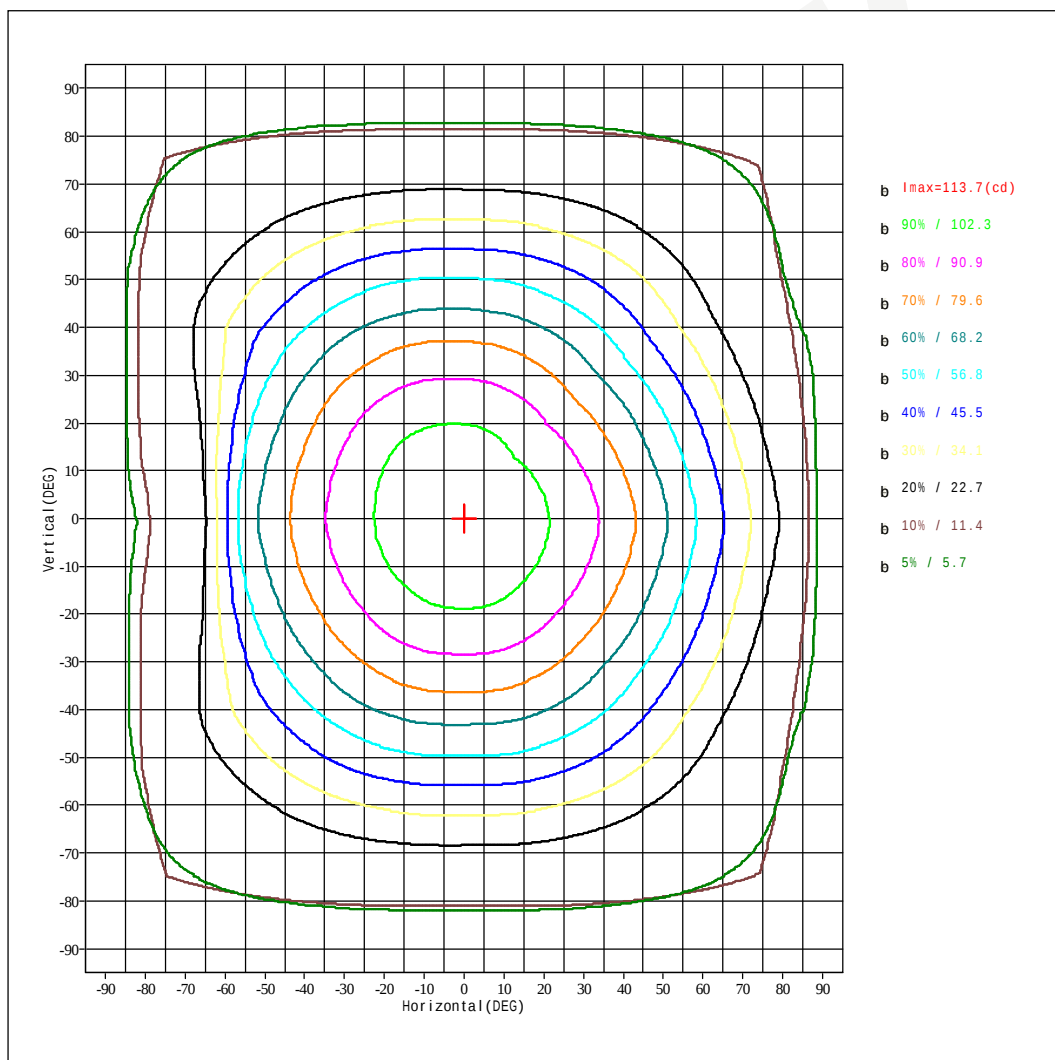
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

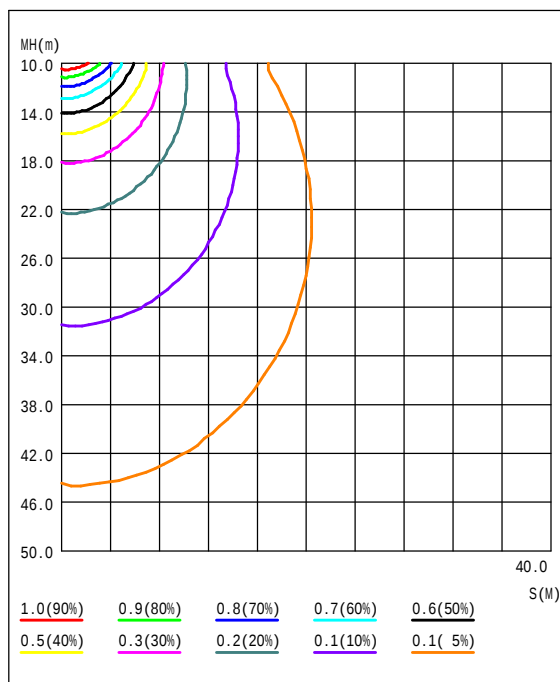
Humidity(%): 60

Date: 2026-2-6

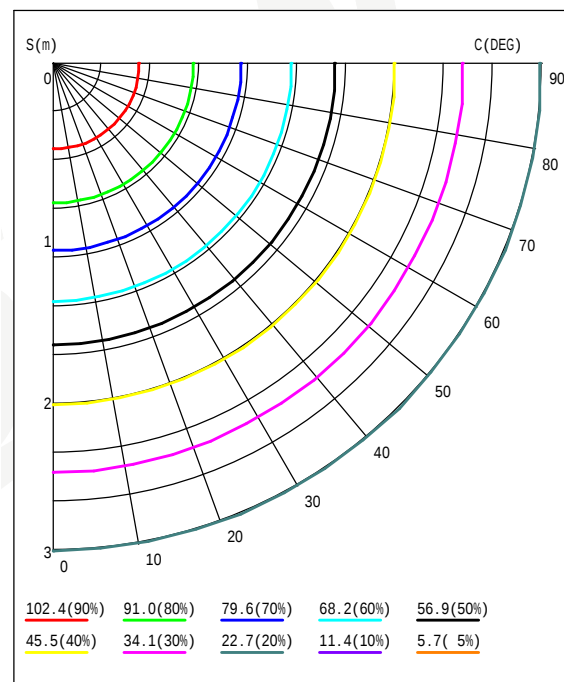
Remark:

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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: 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

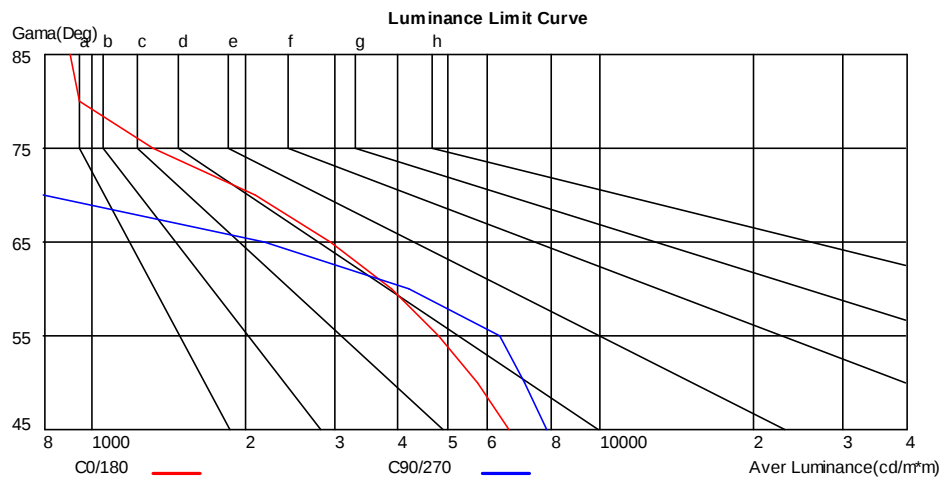
Remark:

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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	6623.3	5724.7	4810.8	3872.0	2941.5	2088.9	1317.6	945.2	904.5
C90	7840.0	7116.3	6336.2	4203.7	2175.6	800.7	788.4	780.1	777.1

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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

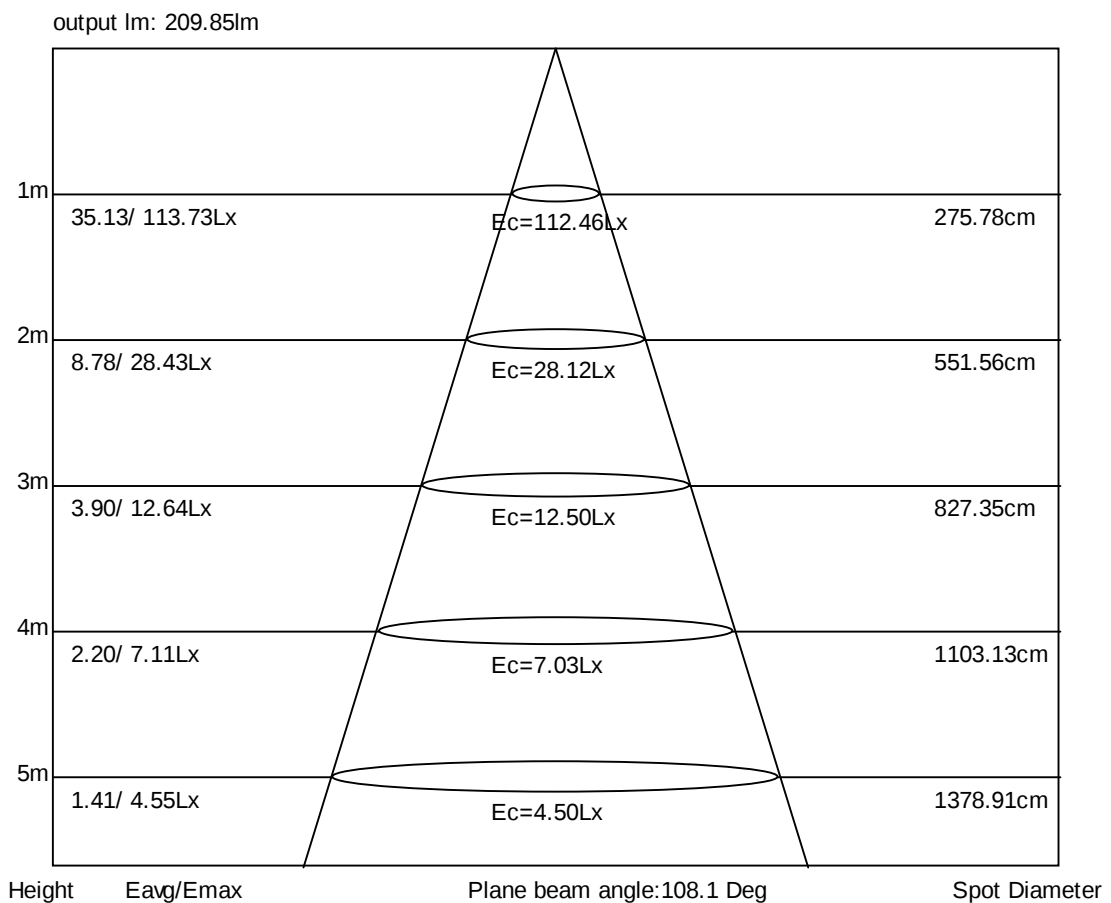
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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

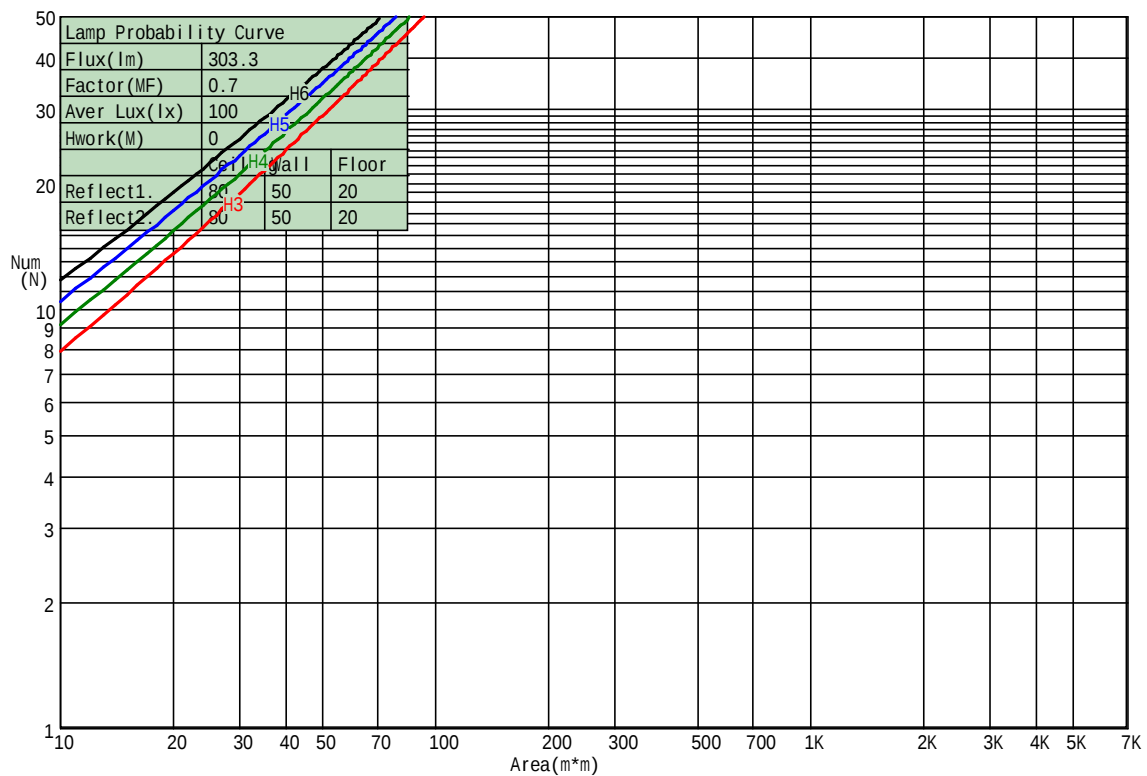
Humidity(%): 60

Date: 2026-2-6

Remark:

Measured Para U: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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	37	28	48	35	27
0.80	56	40	29	54	39	29	50	37	28
1.00	60	42	30	57	41	29	52	38	28
1.25	62	44	31	59	42	30	54	39	28
1.50	64	45	31	61	43	30	55	40	28
2.00	67	47	32	63	45	31	56	41	29
2.50	68	48	32	64	46	31	56	41	28
3.00	69	49	32	65	46	31	57	41	28
4.00	71	50	32	66	47	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	1.04	0.99	0.95	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.9	0.88	0.89	0.87	0.85
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.8	0.75	0.82	0.77	0.73	0.79	0.75	0.72
3	0.8	0.72	0.65	0.78	0.71	0.64	0.75	0.69	0.63	0.72	0.67	0.62	0.7	0.65	0.61
4	0.71	0.62	0.55	0.69	0.61	0.55	0.67	0.6	0.54	0.65	0.58	0.53	0.62	0.57	0.53
5	0.63	0.54	0.48	0.62	0.54	0.48	0.6	0.53	0.47	0.58	0.52	0.46	0.56	0.51	0.46
6	0.57	0.48	0.42	0.56	0.48	0.42	0.54	0.47	0.41	0.53	0.46	0.41	0.51	0.45	0.41
7	0.52	0.43	0.37	0.51	0.43	0.37	0.49	0.42	0.37	0.48	0.41	0.36	0.47	0.41	0.36
8	0.47	0.39	0.33	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.32
9	0.44	0.35	0.3	0.43	0.35	0.3	0.42	0.35	0.3	0.41	0.34	0.29	0.4	0.34	0.29
10	0.4	0.32	0.27	0.4	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27

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: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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	0.32	0.18	0.06	0.31	0.18	0.06	0.3	0.17	0.05	0.28	0.16	0.05	0.27	0.16	0.05
2	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05
3	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04
4	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.22	0.12	0.04
5	0.23	0.12	0.03	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03
6	0.21	0.11	0.03	0.21	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03
8	0.18	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.02	0.16	0.08	0.02
9	0.17	0.08	0.02	0.17	0.08	0.02	0.16	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	0.07	0.02	0.15	0.07	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	0.15	0.13	0.12	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	0.16	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.05	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.13	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	0.13	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	0.03	0.08	0.04	0.02	0.04	0.02	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: 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: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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	113	112	112	111	113	112	112	110	0-5	2.68	2.68
10	111	111	110	110	111	110	110	108	5-10	7.94	10.6
15	108	109	108	107	107	107	108	105	10-15	12.9	23.5
20	103	105	105	103	102	102	105	101	15-20	17.3	40.8
25	96.9	100	101	98.1	95.6	97	101	95.1	20-25	21.1	61.9
30	90.2	94.5	96.5	92.3	88.9	90.9	95.9	88.8	25-30	24.1	86
35	82.7	88	91.1	85.7	81.5	84	90.4	81.8	30-35	26.2	112
40	74.8	80.8	85	78.4	73.4	76.7	84.5	74.3	35-40	27.4	140
45	66.2	73	78.4	70.7	65	68.7	77.7	66.2	40-45	27.6	167
50	57.2	64.8	71.2	62.5	56.1	60.3	70.5	57.7	45-50	26.9	194
55	48.1	56.2	63.4	53.9	46.9	51.6	62.9	48.9	50-55	25.3	219
60	38.7	47.3	42	45	37.6	42.6	54.9	40	55-60	22.6	242
65	29.4	38.2	21.8	36.2	28.4	33.6	46.6	30.9	60-65	18.6	261
70	20.9	29.2	8.01	27.2	19.7	24.7	38.1	22.6	65-70	14.2	275
75	13.2	20.5	7.88	18.8	11.9	16.3	29.7	14.2	70-75	10.5	285
80	9.45	12.7	7.8	11.2	8.58	9.36	21.4	9.3	75-80	7.29	293
85	9.05	8.91	7.77	8.49	8.86	8.16	13.5	8.55	80-85	5.39	298
90	11	10	7.84	10.2	11.5	10.2	8.1	10.4	85-90	5.17	303
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: 226.4V I: 55.0mA P: 7.20W PF: 0.577 Test LM: 303.28lm		
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	113	113	112	112	112	112	111	111	112	113	112	112	112	112	111	111	111	112
10.0	111	111	111	111	111	110	110	110	110	111	110	110	110	110	110	109	109	110
15.0	108	108	109	109	108	108	107	107	107	107	107	107	107	108	107	106	105	106
20.0	103	104	105	105	105	105	104	103	102	102	102	102	103	104	104	102	101	102
25.0	96.9	98.3	99.9	101	101	101	99.2	97.8	96.7	95.6	96.2	96.8	98.2	99.8	99.4	96.9	95.3	96.1
30.0	90.2	92.1	94	95.2	96.1	95.6	93.7	91.9	90.4	88.9	89.8	90.7	92.6	94.8	94.4	91.2	89	89.6
35.0	82.7	85	87.4	89	90.5	90	87.5	85.3	83.3	81.5	82.6	83.8	86.1	89	88.5	84.6	81.9	82.3
40.0	74.8	77.4	80.1	82.2	84.1	83.6	80.6	77.9	75.6	73.4	74.8	76.3	79.2	82.8	82.2	77.6	74.4	74.6
45.0	66.2	69.2	72.3	74.8	77.2	76.7	73.2	70.1	67.5	65	66.6	68.3	71.6	75.7	75.2	70	66.2	66.2
50.0	57.2	60.5	63.9	66.9	69.8	69.3	65.3	61.8	58.9	56.1	57.9	59.9	63.7	68.3	67.7	61.9	57.7	57.5
55.0	48.1	51.7	55.3	58.6	61.8	61.3	57	53.1	49.9	46.9	48.9	51	55.3	60.4	59.8	53.5	48.8	48.4
60.0	38.7	42.5	46.3	45.5	43.2	42.7	44.1	44.2	40.9	37.6	39.8	42.1	46.6	52.2	51.6	44.9	39.8	39.3
65.0	29.4	33.3	37.3	32.8	25.4	24.9	31.4	35.3	31.8	28.4	30.7	33	37.9	43.7	43.1	36.1	30.8	30.1
70.0	20.9	24.5	28.3	22.3	12.7	12.2	20.9	26.4	23	19.7	21.9	24.1	29.1	35.2	34.7	27.7	22.4	21.6
75.0	13.2	16.4	19.7	16.4	10.7	10.3	15.2	18.1	14.9	11.9	13.8	15.8	20.7	26.7	26.3	19.3	14.1	13.6
80.0	9.45	10.9	12.3	11.1	8.87	8.54	10.1	10.9	9.72	8.58	8.92	9.27	13.3	18.8	18.8	13.3	9.32	9.39
85.0	9.05	8.99	8.92	8.54	8.02	7.93	8.26	8.53	8.7	8.86	8.56	8.24	9.9	12.3	12.4	10.2	8.6	8.83
90.0	11	10.6	10.1	9.32	8.32	8.35	9.42	10.3	10.9	11.5	11	10.4	9.54	8.57	8.6	9.62	10.4	10.7
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): 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: