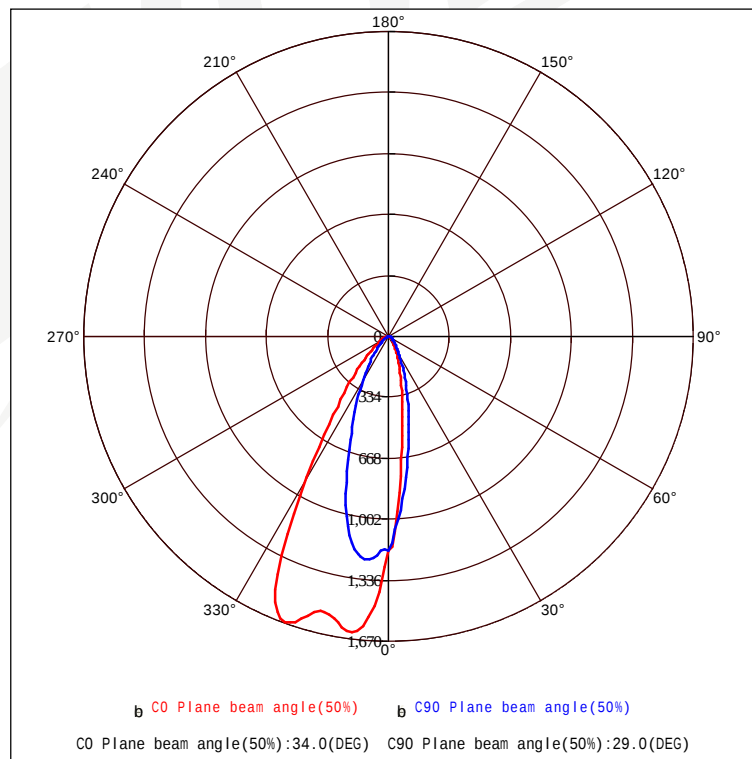


Goniophotometer Test Report

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm						
Lamp Name: LED lawn light			Lamp Type:		Weight(kg):	
Lamp ID: LPGSL-10B01			Lamp Spec: LPGSL-10B01		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPGSL-10B01		Peak Value(cd)	1665.1	Efficiency(lm/w)	81.0
Nominal P(w)		1.0	Position	180.0,19.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	745.290	Down(C0-C180)	43.4
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)	56.6

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

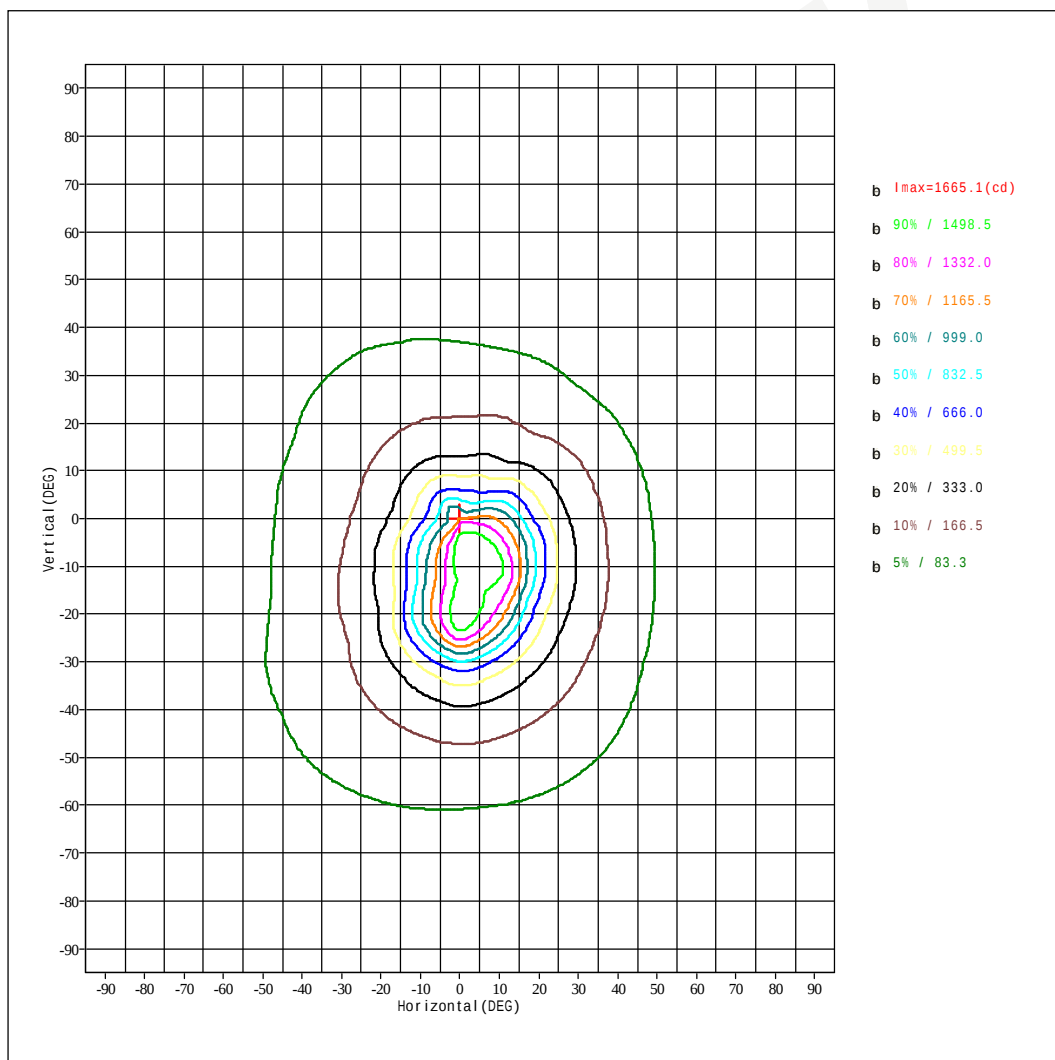
Humidity(%): 60

Date: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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

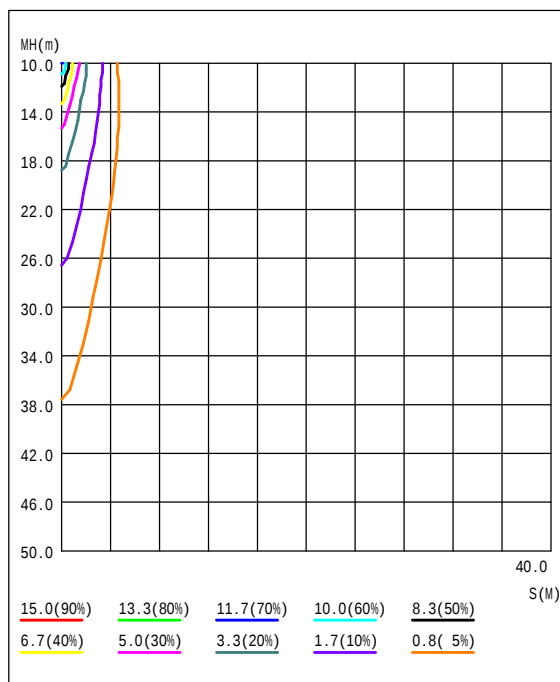
Humidity(%): 60

Date: 2026-1-16

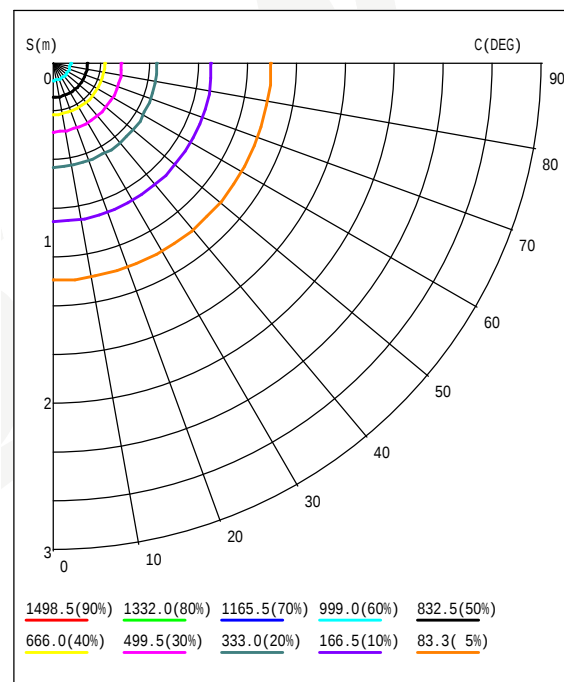
Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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: 2026-1-16

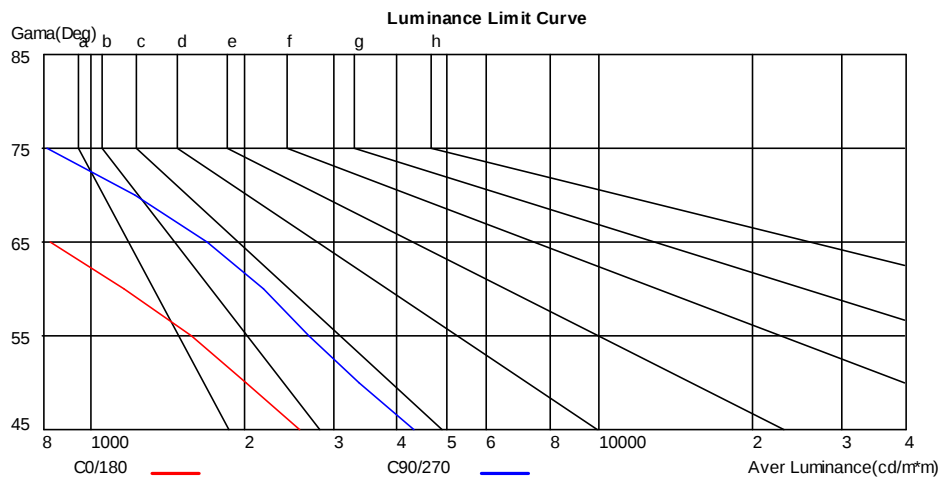
Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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	2569.6	2011.0	1567.5	1159.3	828.6	573.3	406.7	359.7	350.3
C90	4323.8	3371.7	2683.7	2184.9	1684.1	1218.6	817.8	483.1	219.0

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

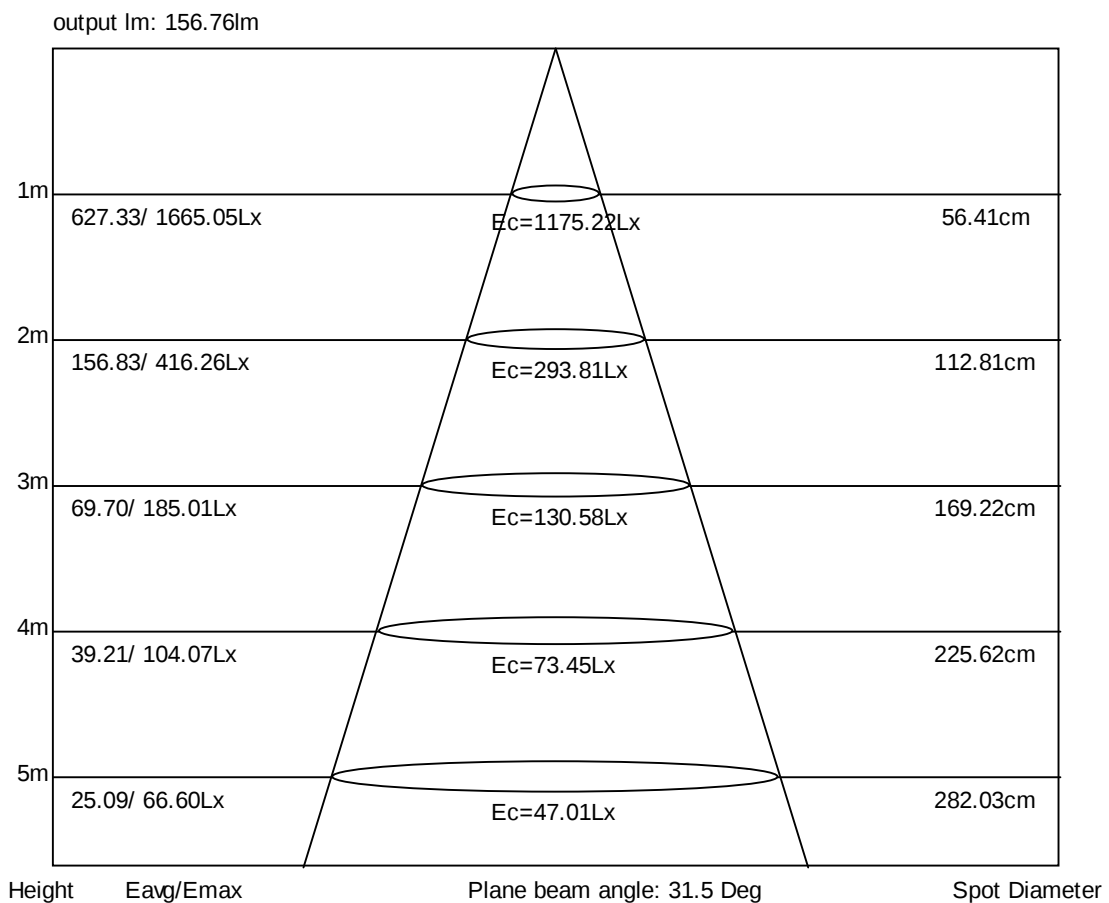
Humidity(%): 60

Date: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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

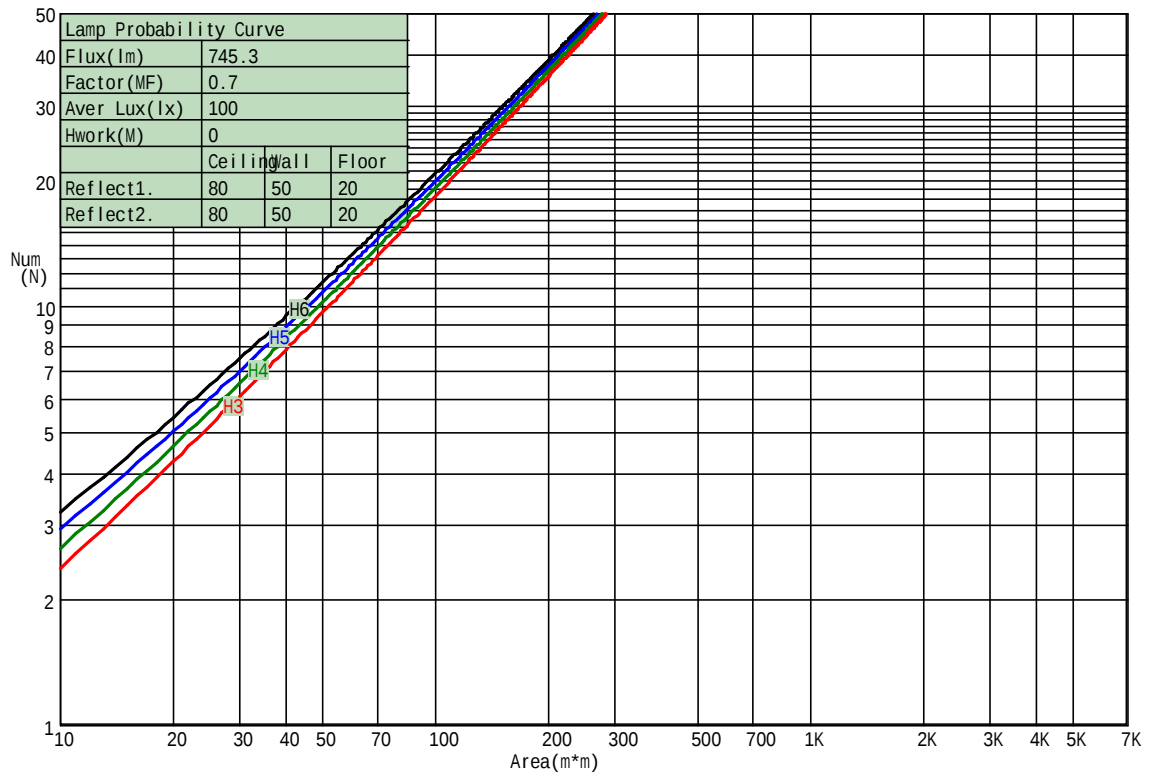
Humidity(%): 60

Date: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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	42	24	14	40	24	13	36	22	13
0.80	47	28	16	45	27	15	40	25	14
1.00	51	31	17	48	30	17	43	27	16
1.25	55	34	19	51	32	18	45	29	17
1.50	57	36	20	54	34	19	47	31	17
2.00	61	39	22	57	37	21	49	33	19
2.50	63	41	24	59	39	22	51	34	20
3.00	65	43	25	60	40	23	52	35	20
4.00	67	45	26	62	42	25	53	37	21
5.00	69	47	27	64	43	25	54	37	22

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	1.1	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1	1	0.98	0.97	0.96	0.95	0.94
2	1.02	0.97	0.94	1	0.96	0.93	0.97	0.93	0.91	0.94	0.91	0.89	0.91	0.89	0.87
3	0.94	0.89	0.85	0.93	0.88	0.84	0.9	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.8
4	0.88	0.82	0.78	0.87	0.81	0.77	0.85	0.8	0.76	0.83	0.79	0.75	0.81	0.77	0.75
5	0.82	0.76	0.72	0.81	0.76	0.71	0.8	0.75	0.71	0.78	0.74	0.7	0.76	0.73	0.7
6	0.77	0.71	0.67	0.77	0.71	0.67	0.75	0.7	0.66	0.74	0.69	0.66	0.72	0.68	0.65
7	0.73	0.67	0.62	0.72	0.66	0.62	0.71	0.66	0.62	0.7	0.65	0.62	0.69	0.64	0.61
8	0.69	0.63	0.59	0.68	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58
9	0.65	0.59	0.55	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.54
10	0.62	0.56	0.52	0.61	0.56	0.52	0.61	0.55	0.52	0.6	0.55	0.52	0.59	0.55	0.52

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: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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	0.19	0.11	0.04	0.19	0.11	0.03	0.17	0.1	0.03	0.16	0.09	0.03	0.15	0.09	0.03
2	0.18	0.1	0.03	0.18	0.1	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.15	0.08	0.03
3	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.15	0.08	0.03	0.14	0.08	0.02
4	0.16	0.09	0.03	0.16	0.08	0.02	0.15	0.08	0.02	0.14	0.08	0.02	0.14	0.07	0.02
5	0.15	0.08	0.02	0.15	0.08	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02
6	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.07	0.02
7	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	0.02	0.12	0.06	0.02
8	0.13	0.06	0.02	0.13	0.06	0.02	0.12	0.06	0.02	0.12	0.06	0.02	0.12	0.06	0.02
9	0.13	0.06	0.02	0.12	0.06	0.02	0.12	0.06	0.02	0.12	0.06	0.02	0.11	0.06	0.02
10	0.12	0.06	0.02	0.12	0.06	0.02	0.11	0.06	0.02	0.11	0.05	0.02	0.11	0.05	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	0.17	0.16	0.14	0.15	0.13	0.12	0.1	0.09	0.09	0.06	0.05	0.05	0.02	0.02	0.02
2	0.16	0.13	0.11	0.14	0.11	0.1	0.09	0.08	0.07	0.05	0.05	0.04	0.02	0.01	0.01
3	0.15	0.11	0.09	0.13	0.1	0.08	0.09	0.07	0.05	0.05	0.04	0.03	0.02	0.01	0.01
4	0.14	0.1	0.07	0.12	0.09	0.06	0.08	0.06	0.04	0.05	0.03	0.03	0.01	0.01	0.01
5	0.13	0.09	0.06	0.11	0.08	0.05	0.08	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01
6	0.12	0.08	0.05	0.1	0.07	0.04	0.07	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.11	0.07	0.04	0.1	0.06	0.04	0.07	0.04	0.03	0.04	0.03	0.02	0.01	0.01	0.01
8	0.11	0.06	0.04	0.09	0.06	0.03	0.06	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.1	0.06	0.03	0.09	0.05	0.03	0.06	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.1	0.05	0.03	0.08	0.05	0.02	0.06	0.03	0.02	0.03	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: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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	720	872	868	1140	1609	1556	1227	778	0-5	27.1	27.1
10	425	534	597	1063	1583	1622	1134	545	5-10	72.4	99.5
15	263	339	404	832	1576	1539	867	369	10-15	101	200
20	165	219	273	589	1663	1182	581	245	15-20	114	314
25	103	140	181	399	1391	737	402	159	20-25	110	425
30	67.7	90.6	118	271	844	460	269	100	25-30	88.9	513
35	46.7	63.1	78.6	183	499	300	177	65.9	30-35	65.1	579
40	33.9	46.6	56.6	122	312	192	111	45.4	35-40	47.8	626
45	25.7	36	43.2	83.5	193	114	70	29.7	40-45	34.5	661
50	20.1	28.6	33.7	59.6	124	68.1	43.3	20.6	45-50	24.7	686
55	15.7	23.5	26.8	44.9	74.5	43.6	29	13.3	50-55	17.9	703
60	11.6	19	21.8	34.6	48.6	28.1	19	8.82	55-60	13.2	717
65	8.29	13.9	16.8	27.4	33.4	16.5	10.7	4.76	60-65	9.68	726
70	5.73	9.54	12.2	21.8	23.3	10	6.57	2.22	65-70	6.98	733
75	4.07	5.83	8.18	16.8	16.6	5.15	1.44	2.07	70-75	4.89	738
80	3.6	3.14	4.83	11.7	11.1	0.93	1.24	2.17	75-80	3.24	741
85	3.5	2.33	2.19	7.55	6.67	1.26	1.6	2.22	80-85	2.21	744
90	3.48	2.11	2.19	4.03	3.77	1.56	1.98	2.2	85-90	1.65	745
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: 2026-1-16

Remark:

Measured Para U: 233.1V I: 76.0mA P: 9.20W PF: 0.515 Test LM: 745.29lm		
Lamp Name: LED lawn light	Lamp Type:	Weight(kg):
Lamp ID: LPGSL-10B01	Lamp Spec: LPGSL-10B01	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	720	787	856	871	869	928	1051	1191	1404	1609	1586	1561	1448	1299	1129	926	772	746
10.0	425	473	522	555	583	699	910	1120	1355	1583	1600	1618	1462	1240	1005	738	532	478
15.0	263	296	331	360	390	498	692	913	1251	1576	1560	1543	1318	1014	758	532	357	309
20.0	165	188	213	237	261	342	485	706	1193	1663	1453	1234	985	712	507	355	236	200
25.0	103	119	136	154	172	229	328	508	957	1391	1105	809	627	475	349	238	153	127
30.0	67.7	77.7	88.1	99.5	112	151	221	333	593	844	676	502	397	311	232	156	96.9	82
35.0	46.7	53.9	61.3	68.2	75.2	101	149	217	361	499	412	322	260	204	153	102	63.8	55.1
40.0	33.9	39.4	45.2	49.9	54.4	71	101	143	229	312	259	205	165	129	97	67.1	44.2	38.9
45.0	25.7	30.2	34.9	38.4	41.7	52	70.3	95.5	145	193	159	123	99.7	79.7	61.2	42.9	29.3	27.5
50.0	20.1	23.8	27.7	30.3	32.6	39.4	51.1	66.7	95.9	124	99.6	74.2	59.9	48.7	38.3	28	20.5	20.3
55.0	15.7	19.1	22.6	24.6	26.1	30.8	38.9	48.1	61.5	74.5	61	47	38.8	32.2	25.6	18.5	13.6	14.7
60.0	11.6	14.8	18.2	19.9	21.2	24.6	30.4	36.2	42.5	48.6	39.6	30.4	25.1	21	16.8	12.1	9.12	10.4
65.0	8.29	10.7	13.3	14.9	16.2	19.2	24	28.1	30.8	33.4	26	18.3	14.6	12	9.42	6.71	5.14	6.74
70.0	5.73	7.4	9.12	10.4	11.6	14.3	18.6	21.9	22.6	23.3	17.5	11.5	8.91	7.33	5.62	3.65	2.61	4.2
75.0	4.07	4.84	5.63	6.6	7.66	10.1	14	16.8	16.7	16.6	11.6	6.41	3.93	2.25	1.58	1.86	2.29	3.19
80.0	3.6	3.4	3.19	3.69	4.46	6.34	9.45	11.6	11.3	11.1	6.63	2.03	1.03	1.17	1.45	1.86	2.32	2.97
85.0	3.5	2.99	2.46	2.29	2.22	3.36	5.79	7.45	7.05	6.67	4.3	1.85	1.37	1.53	1.74	2.02	2.36	2.94
90.0	3.48	2.88	2.26	2.13	2.17	2.59	3.42	4	3.88	3.77	2.8	1.8	1.7	1.89	2.03	2.13	2.34	2.92
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: 2026-1-16

Remark: