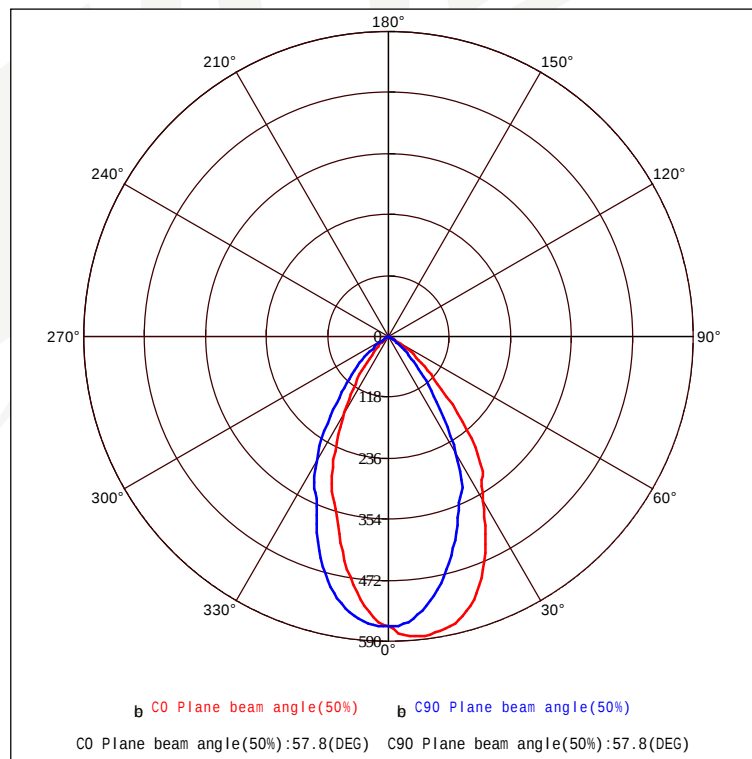


Goniophotometer Test Report

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LP-CL10G01-Y			Lamp Spec: LP-CL10G01-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LP-CL10G01-Y		Peak Value(cd)	584.7	Efficiency(lm/w)	60.3
Nominal P(w)		1.0	Position	0.0,6.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	536.394	Down(C0-C180)	50.5
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)	49.5

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

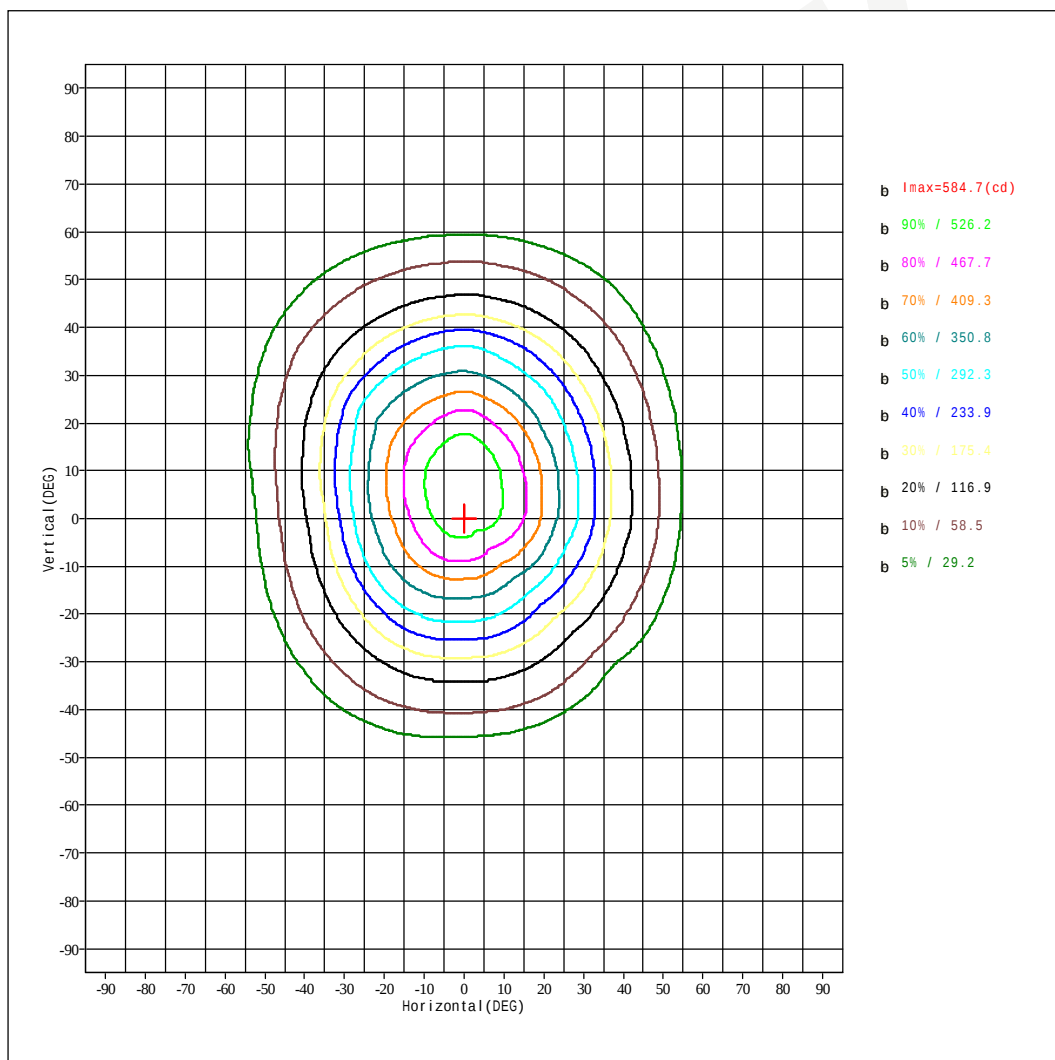
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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

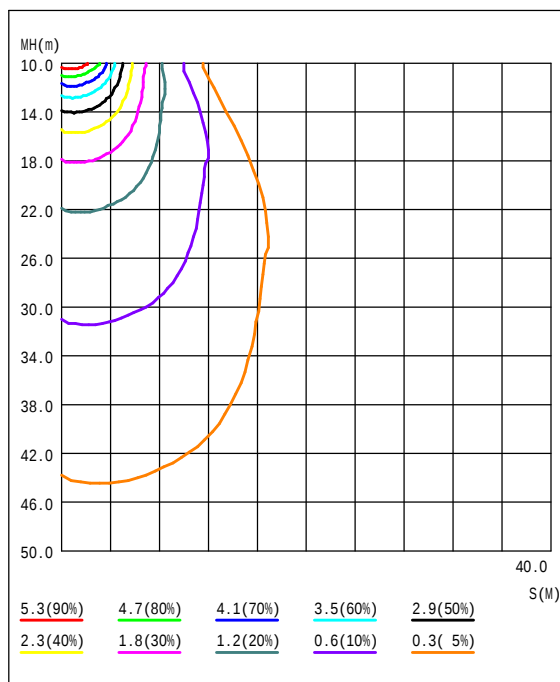
Humidity(%): 60

Date: 2026-1-21

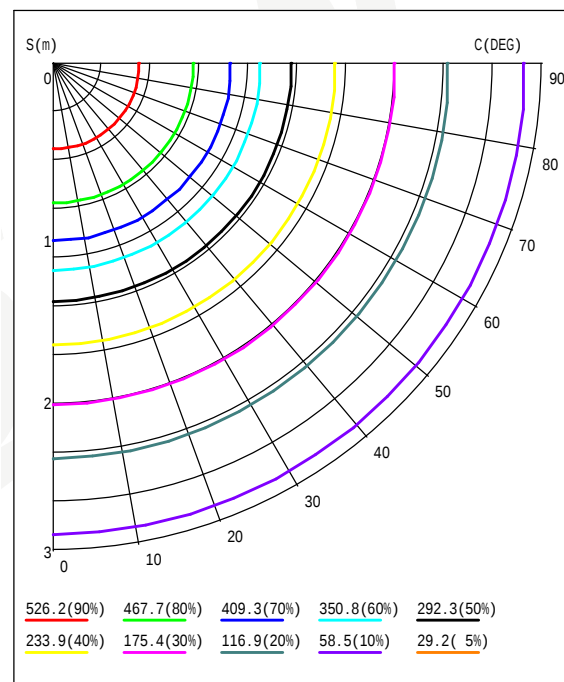
Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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: 2026-1-21

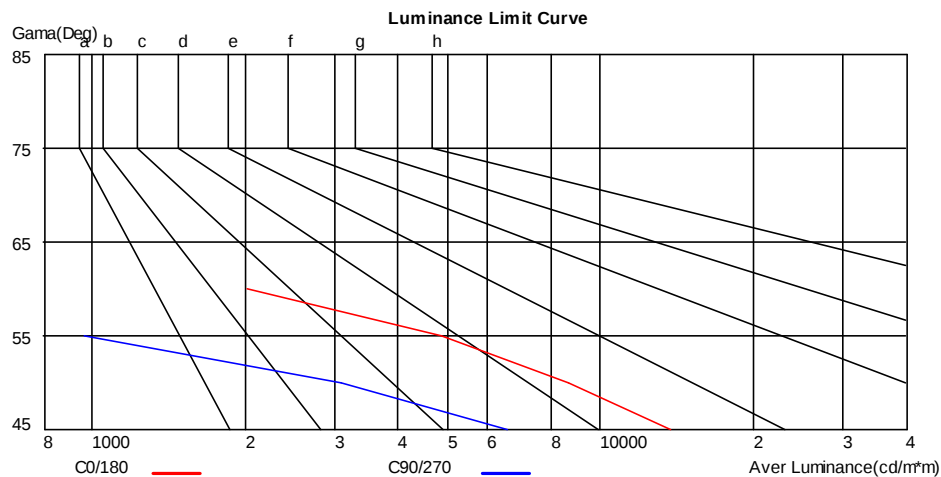
Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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	13753.3	8670.1	4860.3	2012.9	560.6	243.0	130.8	115.6	121.5
C90	6588.0	3083.1	961.4	375.3	193.5	111.7	114.7	119.1	120.0

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

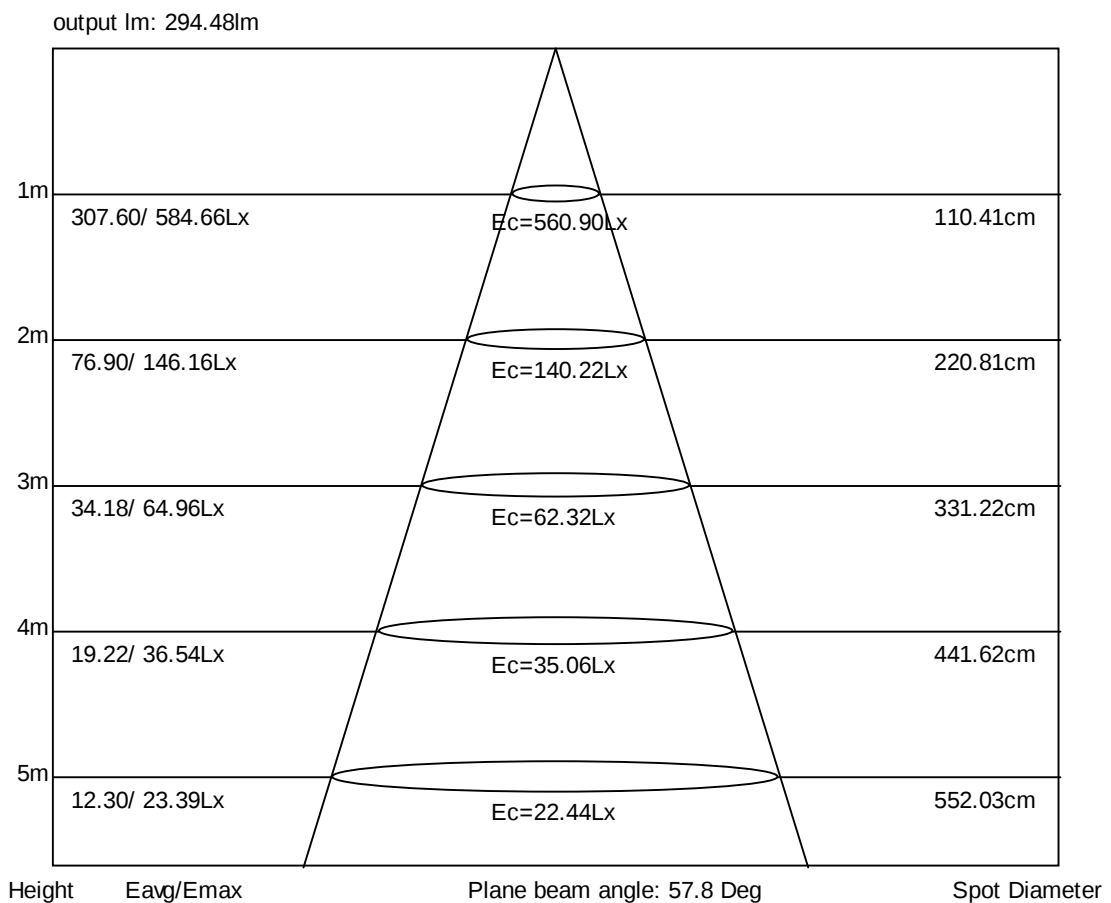
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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

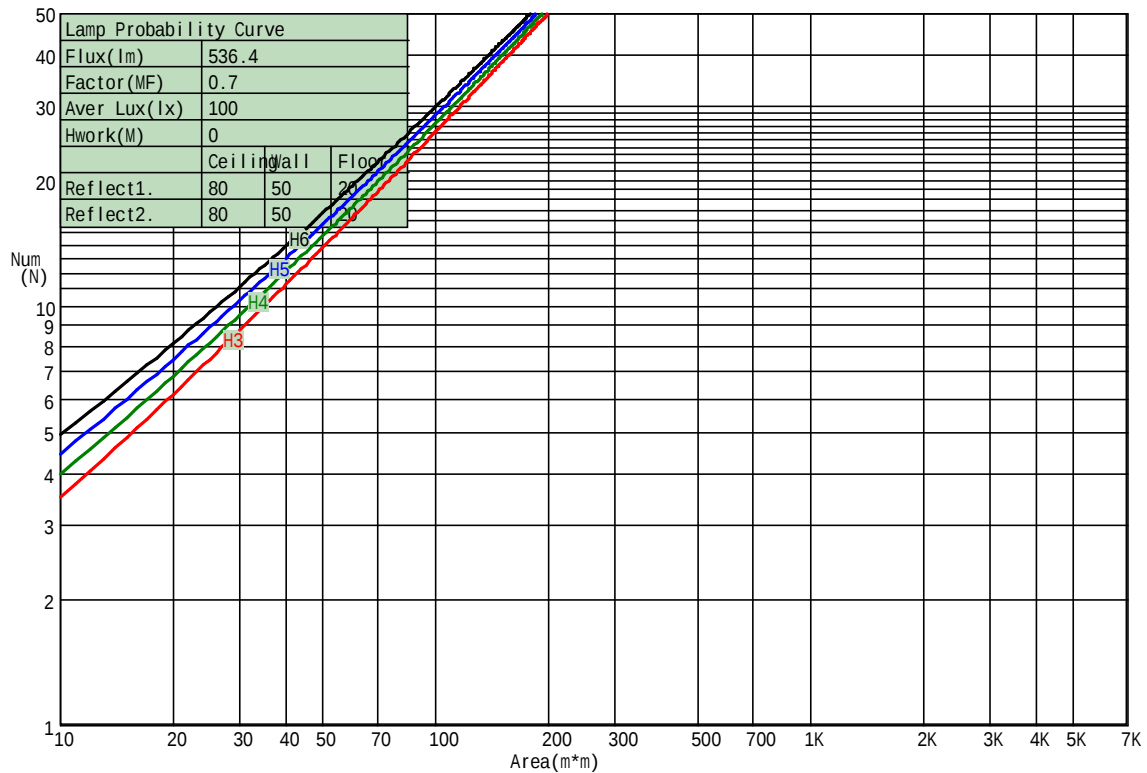
Humidity(%): 60

Date: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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	63	50	42	61	49	42	58	48	41
0.80	63	48	38	61	47	38	57	45	37
1.00	64	48	37	61	47	36	57	44	35
1.25	65	47	34	62	46	34	56	43	32
1.50	65	47	33	62	45	32	56	42	31
2.00	67	48	33	64	46	32	57	42	30
2.50	68	48	32	64	46	31	57	41	28
3.00	69	49	32	65	47	31	57	41	28
4.00	71	51	33	66	48	31	58	42	28
5.00	72	52	33	67	49	32	58	43	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	1.1	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1	1	0.99	0.97	0.97	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	0.84	0.93	0.88	0.84	0.9	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.8
4	0.87	0.81	0.77	0.86	0.8	0.76	0.84	0.79	0.75	0.82	0.78	0.74	0.8	0.76	0.73
5	0.81	0.75	0.7	0.8	0.74	0.7	0.78	0.73	0.69	0.76	0.72	0.68	0.75	0.71	0.68
6	0.75	0.69	0.64	0.75	0.69	0.64	0.73	0.68	0.64	0.72	0.67	0.63	0.7	0.66	0.63
7	0.7	0.64	0.59	0.7	0.64	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.58
8	0.66	0.6	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
9	0.62	0.56	0.51	0.61	0.55	0.51	0.6	0.55	0.51	0.6	0.55	0.51	0.59	0.54	0.51
10	0.58	0.52	0.48	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48

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: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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	0.19	0.11	0.03	0.18	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	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03	0.15	0.08	0.03	0.15	0.08	0.02
4	0.17	0.09	0.03	0.16	0.09	0.03	0.16	0.08	0.02	0.15	0.08	0.02	0.14	0.08	0.02
5	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.14	0.08	0.02	0.14	0.07	0.02
6	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
7	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
8	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
9	0.13	0.06	0.02	0.13	0.06	0.02	0.13	0.06	0.02	0.12	0.06	0.02	0.12	0.06	0.02
10	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

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	0.02	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	0.12	0.07	0.04	0.1	0.06	0.04	0.07	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.11	0.07	0.03	0.09	0.06	0.03	0.07	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	0.06	0.03	0.09	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: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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	584	570	546	531	518	515	552	564	0-5	13.2	13.2
10	577	555	504	475	451	455	522	549	5-10	37.8	51.1
15	556	520	447	403	369	381	469	511	10-15	57.4	108
20	508	464	382	338	313	321	397	453	15-20	70.2	179
25	435	400	332	280	236	250	330	376	20-25	76.1	255
30	360	339	251	202	162	174	273	316	25-30	74.3	329
35	311	283	165	131	107	119	194	251	30-35	67.1	396
40	228	191	108	84.9	61.2	71.6	136	168	35-40	54.3	450
45	138	119	65.9	45.3	25	32.4	89.7	108	40-45	38.1	489
50	86.7	75.3	30.8	17.3	6.14	8.57	49.2	64.8	45-50	23.8	512
55	48.6	39.7	9.61	5.4	2.62	2.57	18.6	30.2	50-55	13.1	525
60	20.1	14.1	3.75	2.79	0.67	0.92	5.17	8.94	55-60	5.84	531
65	5.61	4.66	1.94	1.26	0.65	0.39	2.16	2.76	60-65	2.14	533
70	2.43	2.67	1.12	1.29	0.72	0.51	0.58	1.08	65-70	0.86	534
75	1.31	1.24	1.15	1.29	0.79	0.57	0.59	0.47	70-75	0.56	535
80	1.16	1.25	1.19	1.29	0.82	0.62	0.66	0.57	75-80	0.5	535
85	1.22	1.28	1.2	1.29	0.86	0.74	0.73	0.65	80-85	0.53	536
90	1.27	1.26	1.2	1.28	0.94	0.74	0.78	0.72	85-90	0.55	536
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: 2026-1-21

Remark:

Measured Para U: 225.7V I: 71.0mA P: 8.90W PF: 0.550 Test LM: 536.39lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-CL10G01-Y	Lamp Spec: LP-CL10G01-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	584	577	571	562	551	542	536	529	524	518	517	516	527	544	555	560	566	575
10.0	577	567	557	538	515	498	484	472	461	451	452	454	477	507	528	540	552	565
15.0	556	540	524	496	463	438	417	399	384	369	374	379	410	450	478	497	516	536
20.0	508	489	469	437	400	372	352	335	324	313	316	320	346	380	409	435	459	484
25.0	435	420	404	377	347	320	297	276	256	236	242	249	276	313	340	361	382	409
30.0	360	351	341	310	270	240	218	197	179	162	167	173	207	251	282	302	321	341
35.0	311	299	286	244	190	157	142	128	117	107	112	118	144	178	206	232	257	285
40.0	228	212	195	164	126	103	92.4	82.3	71.6	61.2	65.7	70.4	92.8	122	143	158	175	202
45.0	138	130	121	102	77.6	61.4	52	43.1	33.9	25	28.2	31.6	51.2	77.1	93.7	102	111	125
50.0	86.7	81.7	76.6	60.7	40.6	27.9	21.7	16.1	11	6.14	7.21	8.31	21.9	40.3	52.6	59.7	67.2	77.1
55.0	48.6	44.7	40.7	29.8	16.2	8.69	6.79	5.1	3.84	2.62	2.6	2.58	7.83	15.1	21.1	26.4	32.2	40.5
60.0	20.1	17.5	14.7	10.7	6.01	3.54	3.1	2.56	1.6	0.67	0.78	0.89	2.31	4.24	6	7.71	10.2	15.2
65.0	5.61	5.19	4.76	3.77	2.53	1.79	1.48	1.2	0.92	0.65	0.54	0.42	0.97	1.77	2.29	2.56	3.07	4.36
70.0	2.43	2.54	2.64	2.16	1.46	1.15	1.23	1.23	0.97	0.72	0.63	0.53	0.53	0.57	0.69	0.92	1.23	1.84
75.0	1.31	1.28	1.25	1.21	1.17	1.18	1.24	1.23	1.01	0.79	0.69	0.59	0.58	0.59	0.57	0.51	0.56	0.94
80.0	1.16	1.2	1.24	1.23	1.2	1.21	1.26	1.24	1.03	0.82	0.73	0.64	0.63	0.65	0.64	0.6	0.64	0.9
85.0	1.22	1.25	1.28	1.26	1.22	1.22	1.26	1.25	1.05	0.86	0.81	0.76	0.74	0.73	0.71	0.67	0.71	0.97
90.0	1.27	1.26	1.26	1.24	1.21	1.22	1.25	1.24	1.09	0.94	0.86	0.77	0.76	0.77	0.77	0.74	0.78	1.03
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: 2026-1-21

Remark: