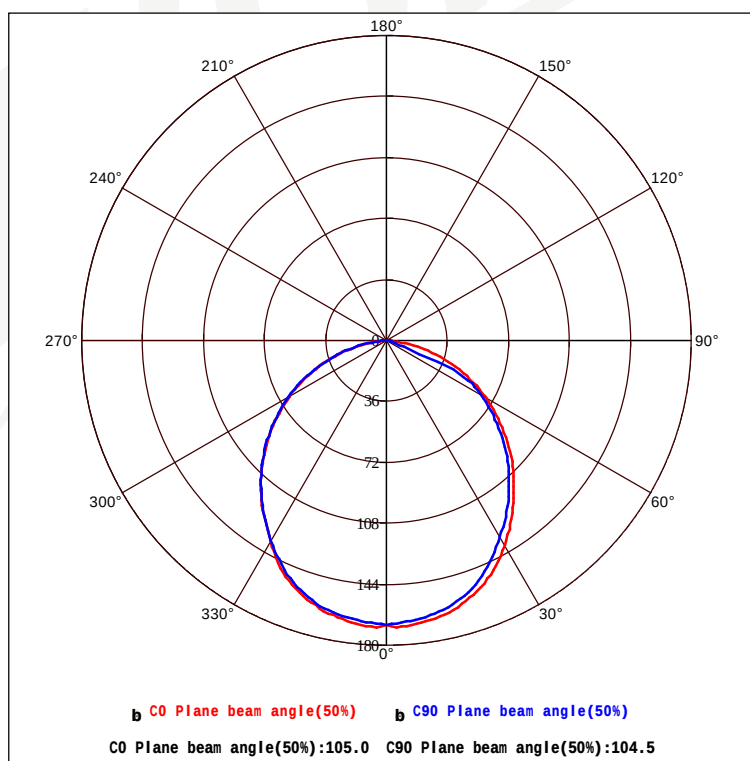


Goniophotometer Test Report

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm						
Lamp Name: LED DOWN LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPDL-08EWS01-Y			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-08EWS01-Y		Peak Value(cd)	169.6	Efficiency(lm/w)	87.1
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	706.38	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): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

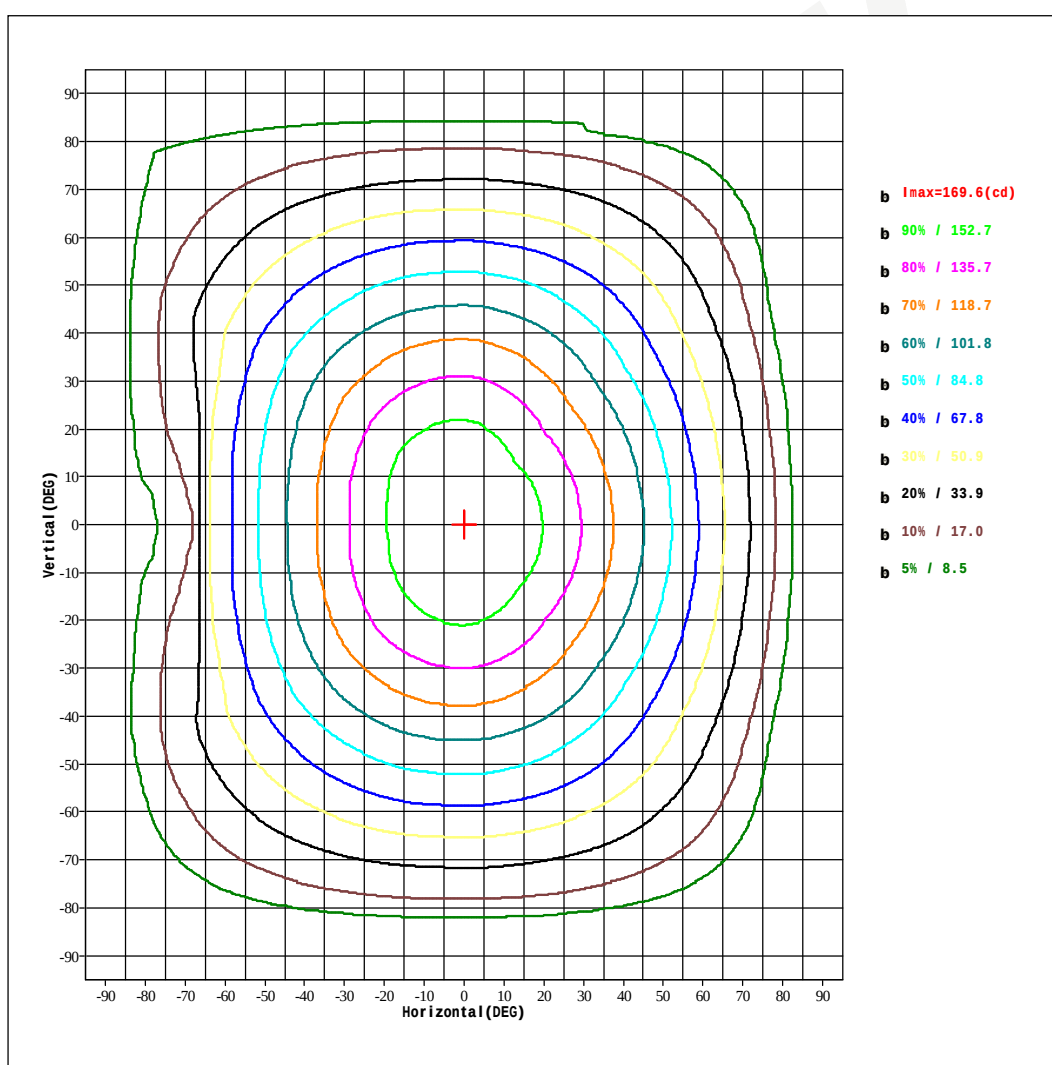
Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

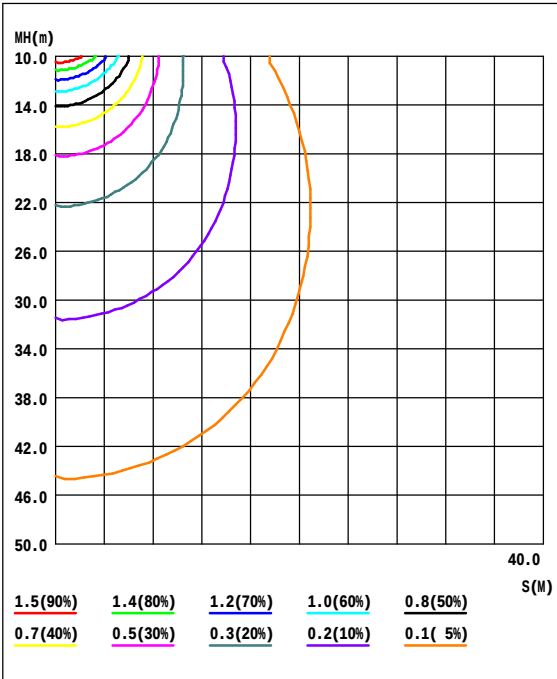
Humidity(%): 60

Date: 2023-11-7

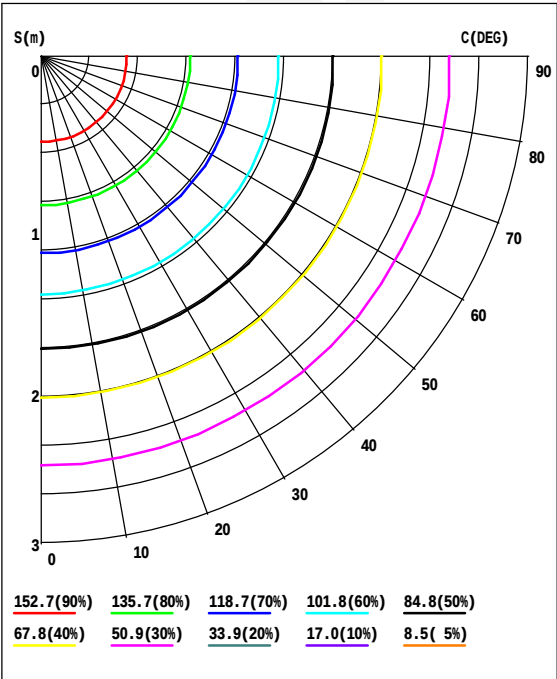
Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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): 30

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

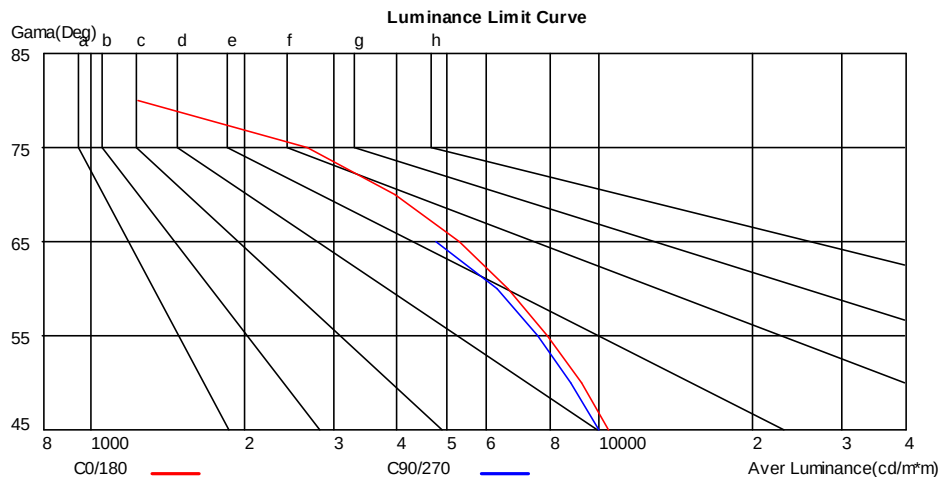
Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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	10415.9	9209.2	7926.6	6637.0	5309.4	3974.8	2658.2	1233.6	262.9
C90	10012.0	8820.3	7583.7	6312.6	4778.6	695.3	417.4	261.4	162.5

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: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

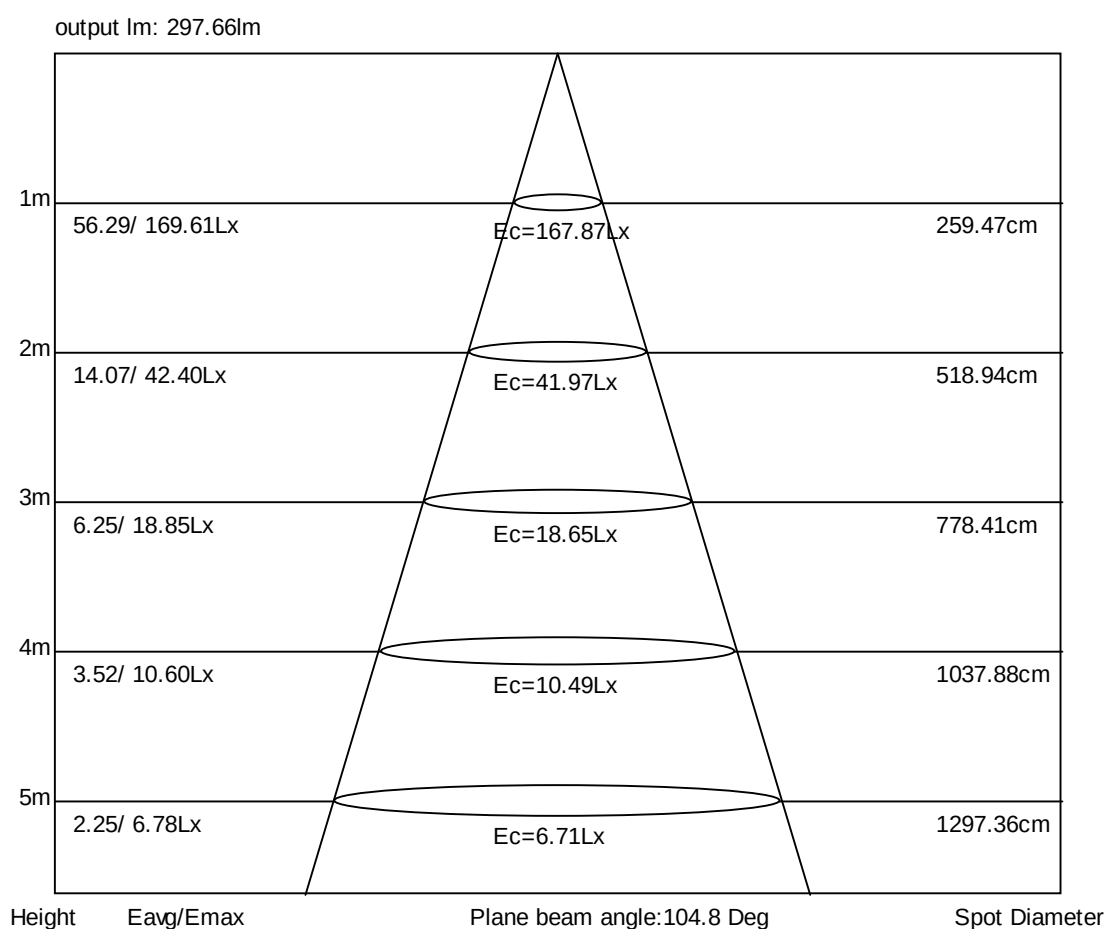
Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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: zyg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

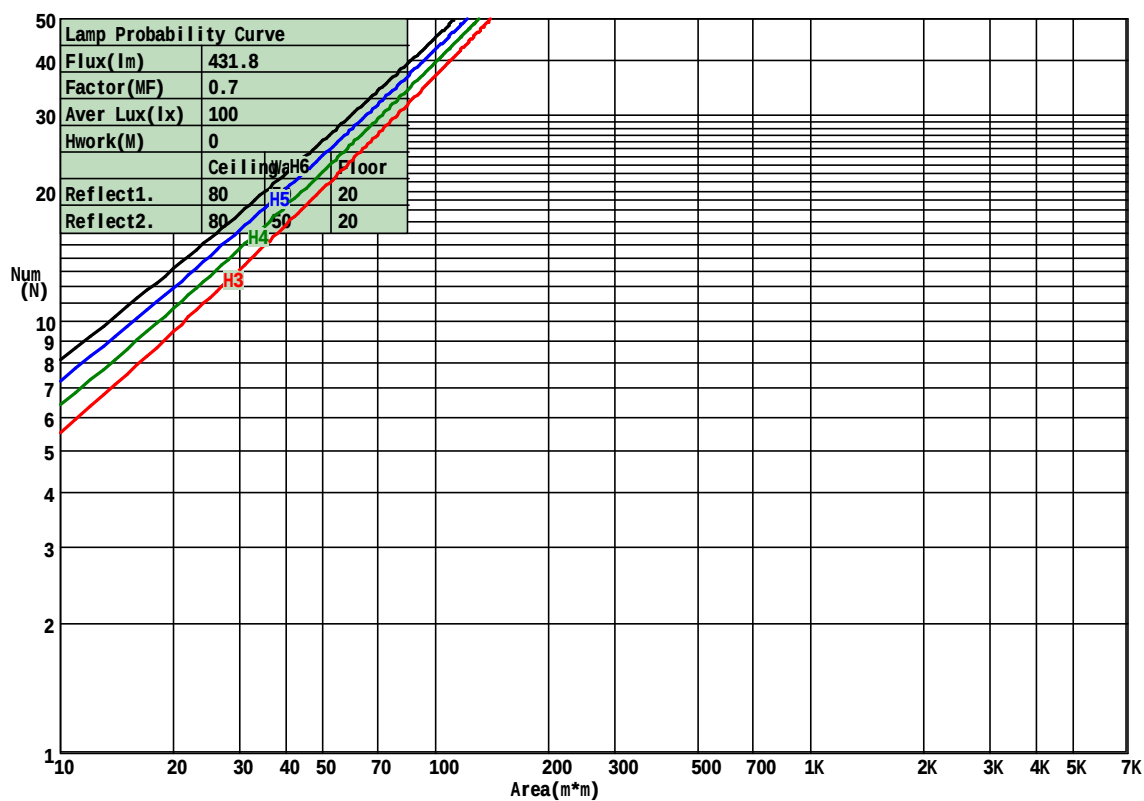
Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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	53	39	29	52	38	29	49	37	29
0.80	58	41	31	55	40	30	52	39	29
1.00	61	44	32	58	42	31	53	40	30
1.25	63	46	32	60	44	32	55	41	30
1.50	65	47	33	62	45	32	56	42	30
2.00	68	49	34	64	47	33	57	43	31
2.50	69	50	34	65	47	32	58	43	30
3.00	70	50	34	66	48	32	58	43	29
4.00	71	51	34	67	49	32	58	43	29
5.00	72	52	34	68	49	32	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	1.05	1.01	0.97	1.03	0.99	0.96	0.98	0.95	0.93	0.95	0.92	0.9	0.91	0.89	0.87
2	0.92	0.85	0.8	0.9	0.84	0.79	0.86	0.81	0.77	0.83	0.79	0.75	0.8	0.77	0.74
3	0.81	0.73	0.67	0.79	0.72	0.66	0.76	0.7	0.65	0.74	0.68	0.64	0.71	0.67	0.63
4	0.72	0.63	0.57	0.71	0.63	0.56	0.68	0.61	0.56	0.66	0.6	0.55	0.64	0.58	0.54
5	0.64	0.56	0.49	0.63	0.55	0.49	0.61	0.54	0.48	0.59	0.53	0.48	0.57	0.52	0.47
6	0.58	0.49	0.43	0.57	0.49	0.43	0.55	0.48	0.42	0.54	0.47	0.42	0.52	0.46	0.42
7	0.53	0.44	0.38	0.52	0.44	0.38	0.5	0.43	0.38	0.49	0.42	0.37	0.48	0.42	0.37
8	0.48	0.4	0.34	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.33
9	0.44	0.36	0.31	0.44	0.36	0.31	0.43	0.35	0.3	0.42	0.35	0.3	0.4	0.35	0.3
10	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.38	0.32	0.27

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm															
Lamp Name: LED DOWN LIGHT								Lamp Type:				Weight(kg):			
Lamp ID: LPDL-08EWS01-Y								Lamp Spec:				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	0.29	0.17	0.05	0.28	0.16	0.05	0.27	0.16	0.05	0.26	0.15	0.05	0.25	0.14	0.05
2	0.28	0.15	0.05	0.27	0.15	0.05	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.14	0.04
3	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.23	0.12	0.04
4	0.24	0.13	0.04	0.24	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.03
5	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.11	0.03
6	0.21	0.1	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
7	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.03	0.18	0.09	0.02	0.17	0.09	0.02	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	0.15	0.08	0.02
10	0.16	0.08	0.02	0.16	0.08	0.02	0.15	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	0.14	0.15	0.13	0.12	0.1	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.15	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.04	0.02	0.01	0.01
3	0.16	0.11	0.08	0.14	0.1	0.07	0.1	0.07	0.05	0.06	0.04	0.03	0.02	0.01	0.01
4	0.15	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	0.07	0.03	0.12	0.06	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.01	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	0.1	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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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	169	168	166	166	169	167	167	165	0-5	4	4
10	166	166	163	164	166	163	164	162	5-10	11.8	15.8
15	162	162	159	160	162	159	160	158	10-15	19.3	35.1
20	157	157	153	155	156	152	154	151	15-20	25.9	61
25	149	149	143	146	147	142	145	141	20-25	31.4	92.5
30	139	138	133	136	136	131	135	131	25-30	35.4	128
35	128	128	123	126	125	121	125	120	30-35	38.1	166
40	116	117	112	115	114	110	114	109	35-40	39.6	206
45	104	106	100	104	102	97.8	102	97.4	40-45	39.8	245
50	92.1	94.2	88.2	92.3	90.3	85.6	90.6	85.3	45-50	38.7	284
55	79.3	82.2	75.8	80.2	77.8	72.9	78.2	72.8	50-55	36.3	320
60	66.4	70.2	63.1	67.8	64.9	60	65.5	60	55-60	32.8	353
65	53.1	57.6	47.8	55.3	51.8	46.8	52.4	46.9	60-65	28.3	382
70	39.7	44.7	6.95	42.6	38.5	33.6	39.3	33.8	65-70	21.6	403
75	26.6	31.7	4.17	29.8	25.4	19.6	26.2	20.1	70-75	15.1	418
80	12.3	18.9	2.61	17.4	11.5	7.05	12.6	7.5	75-80	9.08	427
85	2.63	6.54	1.62	5.09	2.1	1.12	2.63	1.17	80-85	3.46	431
90	1.74	1.74	1.61	1.74	1.21	1.1	1.09	1.05	85-90	0.98	432
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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 217.1V I: 68.92mA P: 8.11W PF: 0.542 Test LM: 706.38lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-08EWS01-Y	Lamp Spec:	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	169	168	168	167	166	166	166	166	167	169	168	167	167	167	166	166	166	167
10.0	166	166	166	165	164	164	164	164	165	166	165	164	164	164	164	163	163	165
15.0	162	162	162	161	160	159	160	160	161	162	160	159	159	160	160	158	158	160
20.0	157	157	157	156	154	153	154	155	155	156	154	152	153	154	153	152	151	154
25.0	149	149	149	147	144	144	145	146	147	147	145	143	143	145	144	142	142	145
30.0	139	138	138	136	134	134	135	136	136	136	134	132	133	134	134	132	132	135
35.0	128	128	128	126	124	123	125	126	126	125	123	121	122	124	124	122	121	124
40.0	116	116	117	115	113	112	114	115	115	114	112	110	111	113	113	111	110	113
45.0	104	105	106	104	101	101	103	104	103	102	100	98.3	99.3	101	101	99.1	98.1	101
50.0	92.1	93	93.9	92.2	89.5	89.1	91	92.1	91.2	90.3	88.2	86.1	87.2	89.5	89.4	87	86	89.1
55.0	79.3	80.6	81.9	80.1	77.2	76.8	78.8	79.9	78.8	77.8	75.7	73.5	74.7	77	77	74.6	73.5	76.4
60.0	66.4	68.1	69.8	67.9	64.7	64.2	66.3	67.5	66.2	64.9	62.8	60.5	61.8	64.3	64.3	61.8	60.7	63.6
65.0	53.1	55	57.1	54.3	49.9	49.4	52.8	54.9	53.3	51.8	49.6	47.3	48.7	51.2	51.2	48.7	47.6	50.4
70.0	39.7	41.9	44.1	32.3	15.2	14.8	30.9	42.2	40.3	38.5	36.4	34.1	35.5	38	38.1	35.6	34.4	37.1
75.0	26.6	28.8	31.2	22.7	10.2	9.78	21.4	29.3	27.3	25.4	22.8	20.2	21.8	24.8	24.9	22.1	20.8	23.7
80.0	12.3	15.2	18.2	13.5	6.17	5.86	12.6	16.8	14.1	11.5	9.56	7.54	8.86	11.4	11.5	9.16	8.03	10.2
85.0	2.63	4.34	6.11	4.93	2.7	2.38	3.95	4.76	3.41	2.1	1.67	1.23	1.62	2.3	2.31	1.65	1.33	1.99
90.0	1.74	1.74	1.74	1.7	1.64	1.64	1.7	1.69	1.44	1.21	1.16	1.11	1.1	1.09	1.08	1.06	1.13	1.44
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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark: