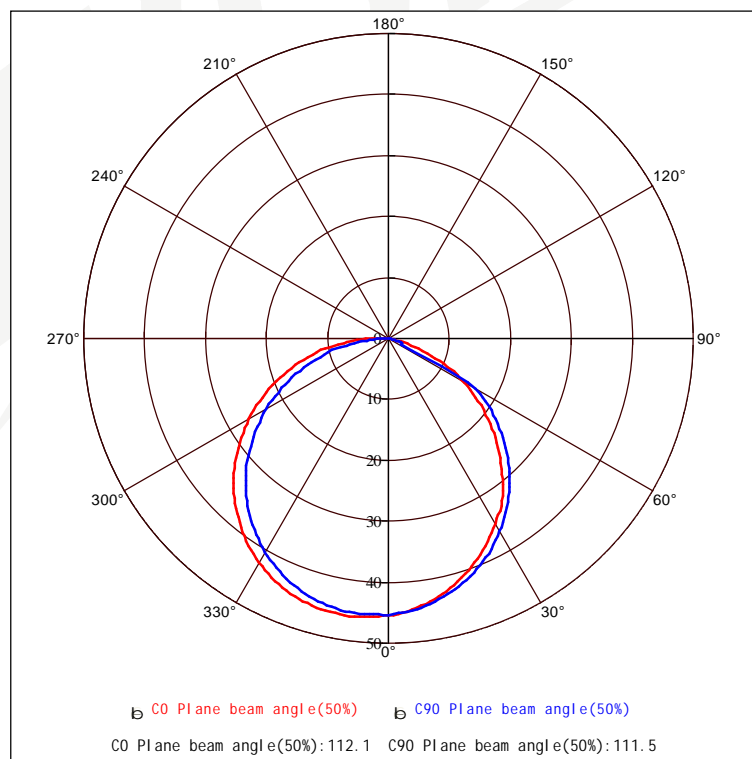


LED DOWN LIGHT

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.49lm						
Lamp Name: LPDL-3A-Y		Lamp Type:		Weight(kg):		
Lamp ID:		Lamp Spec: LPDL-3A-Y		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-3A-Y		Peak Value(cd)	46.0	Efficiency(lm/w)	38.6
Nominal P(w)	1.0		Position	180.0, 8.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0		Total Flux(lm)	127.488	Down(C0-C180)	47.5
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)	52.5

Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

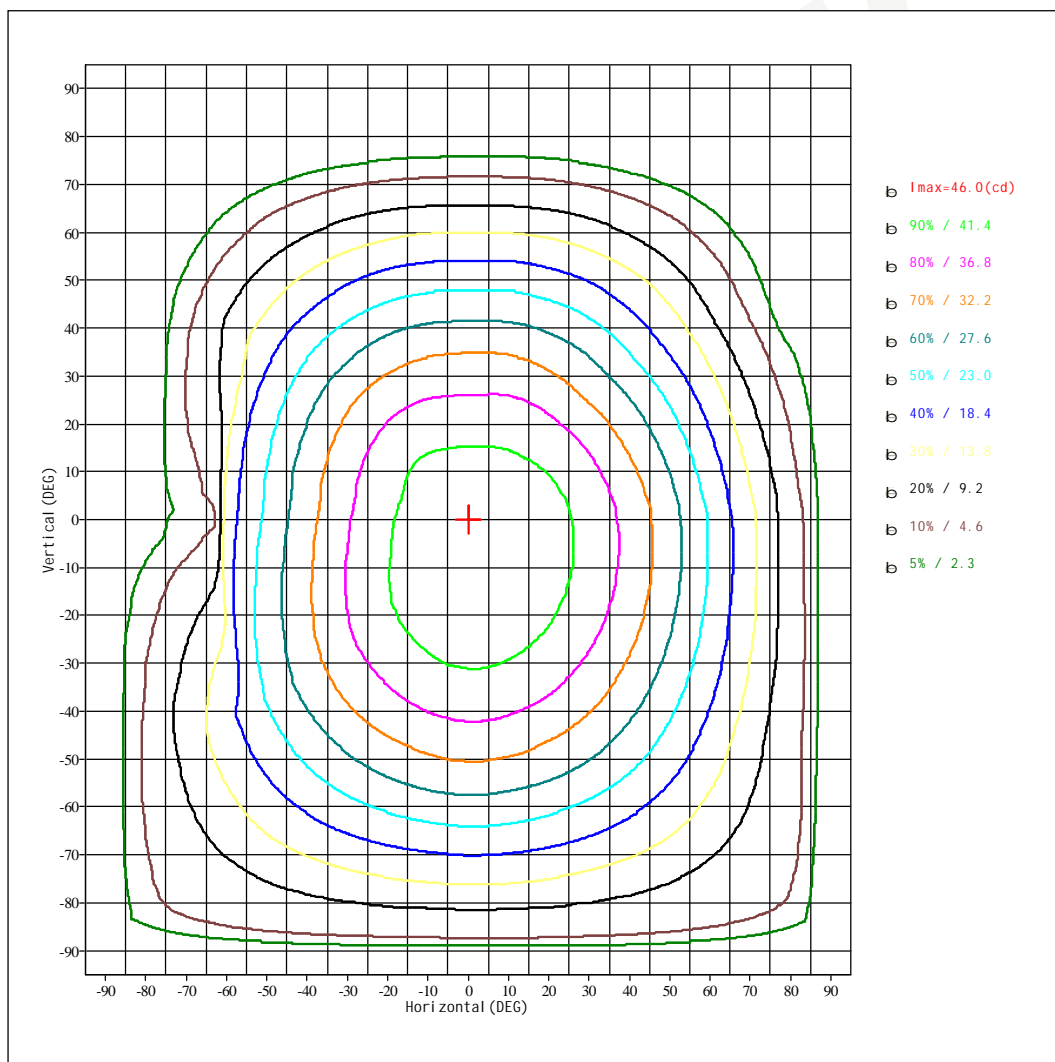
Humidity(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.49lm		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

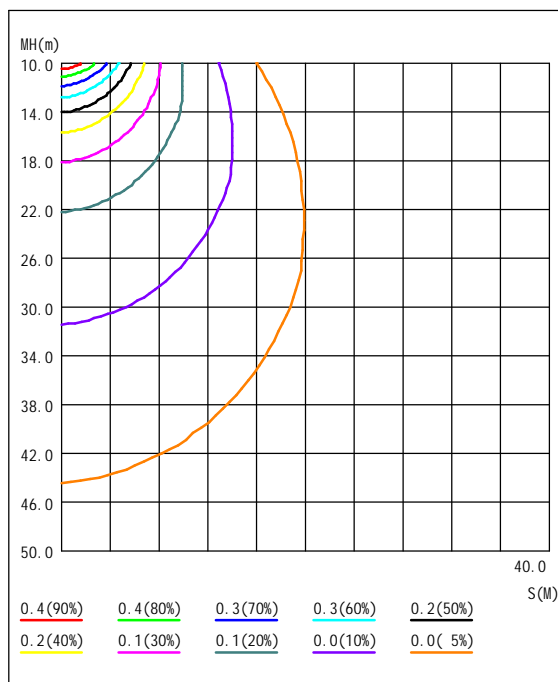
Humi di ty(%): 60

Date: 2020-6-15

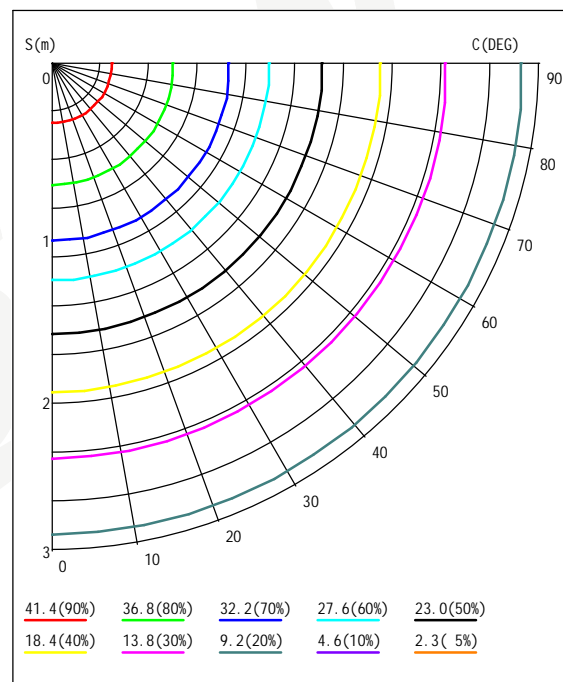
Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.49lm		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
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): 25

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

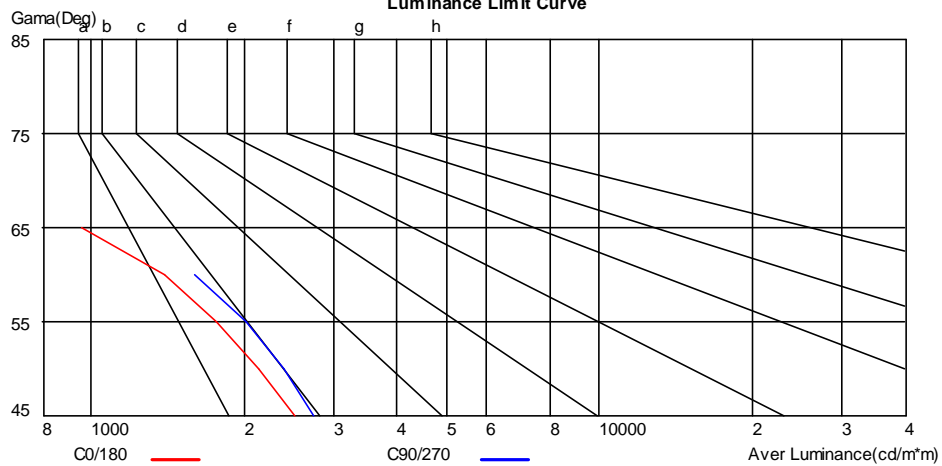
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	2509.5	2141.3	1765.7	1391.8	957.5	564.3	233.8	18.0	7.2
C90	2733.8	2386.0	2018.8	1599.0	227.7	227.3	120.2	43.5	12.8

Glare

Glare	Class	Illuminance(lx)							
		a	b	c	d	e	f	g	h
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

Luminance Limit Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

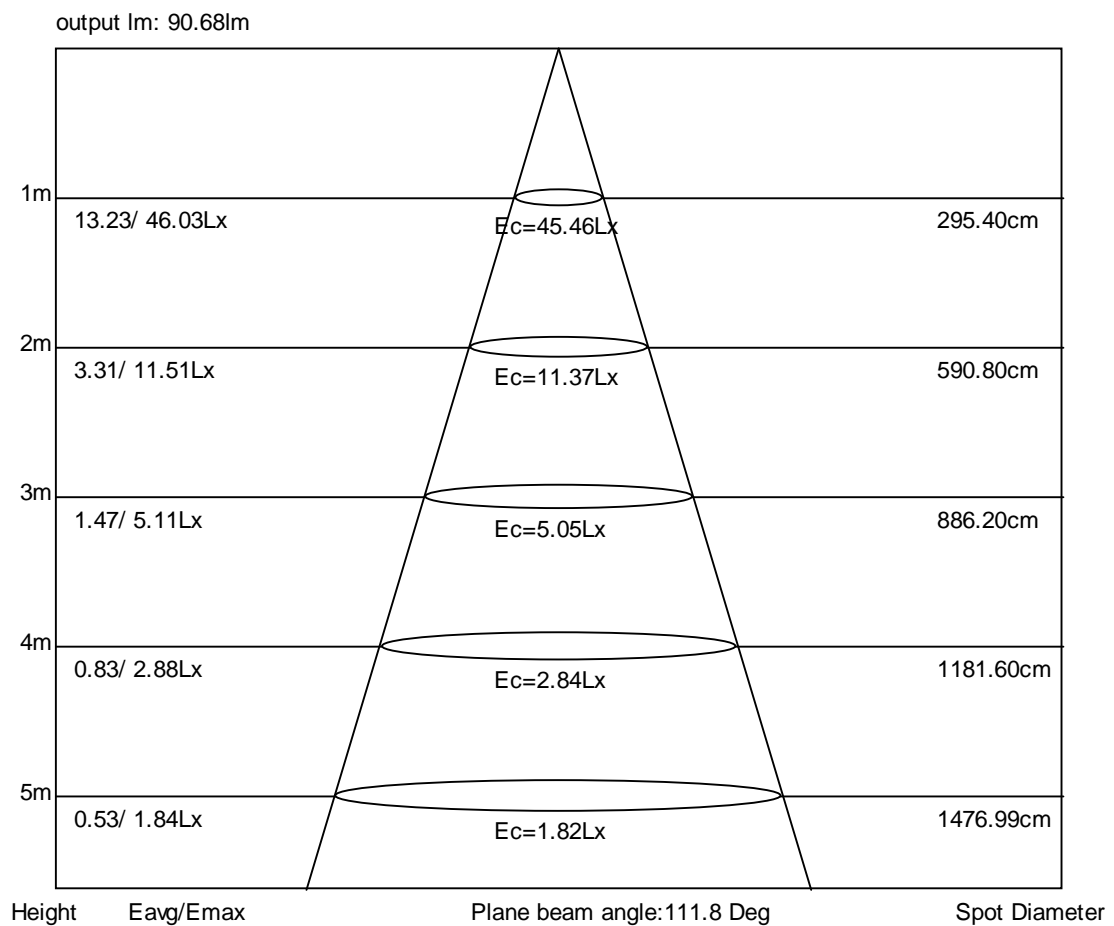
Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

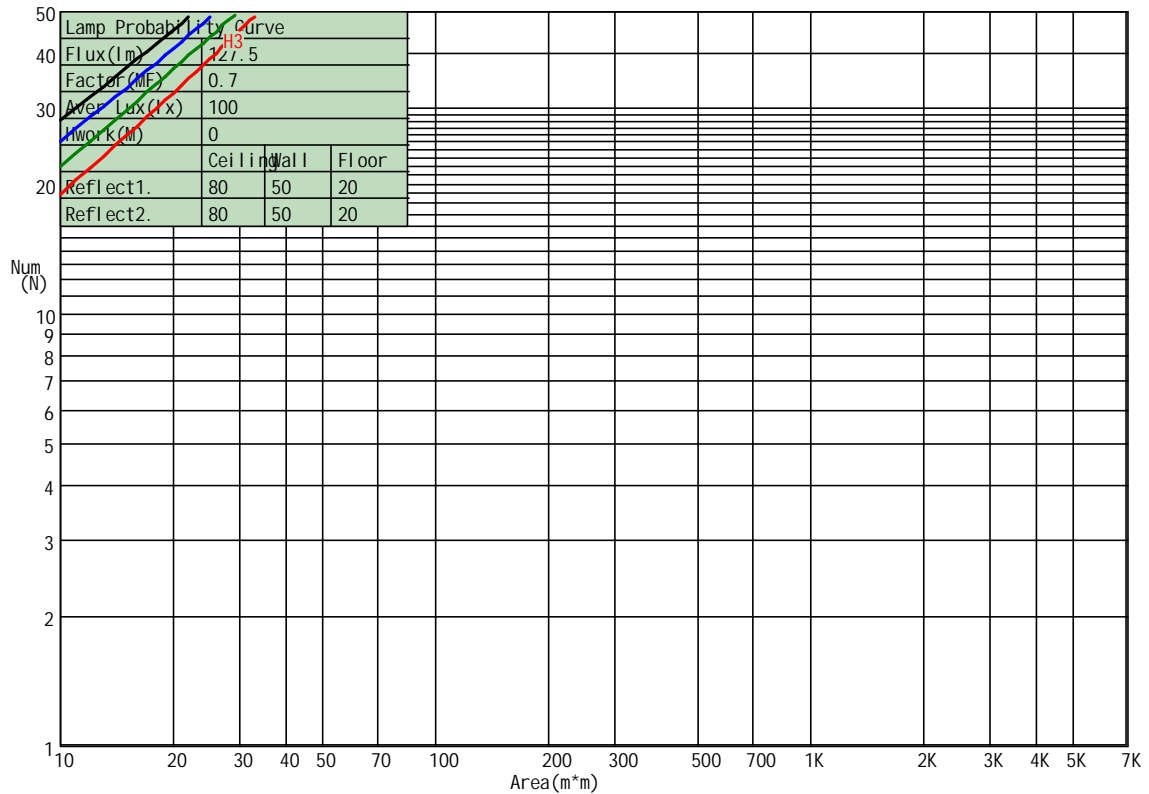
Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
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	51	36	26	49	35	26	46	34	26
0.80	55	39	27	53	38	27	49	36	26
1.00	58	41	29	56	39	28	51	37	27
1.25	61	43	29	58	41	28	52	38	27
1.50	63	44	29	60	42	28	53	39	27
2.00	66	46	30	62	44	29	55	39	27
2.50	67	47	30	63	44	29	55	39	26
3.00	68	48	30	64	45	29	56	40	26
4.00	69	49	30	65	46	29	56	40	26
5.00	70	49	31	66	46	29	57	40	25

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall (%)	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	1	0.96	1.02	0.98	0.94	0.98	0.94	0.91	0.94	0.91	0.89	0.9	0.88	0.86
2	0.91	0.84	0.78	0.89	0.83	0.77	0.85	0.8	0.76	0.82	0.78	0.74	0.79	0.75	0.72
3	0.8	0.72	0.65	0.78	0.71	0.65	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	0.47	0.6	0.52	0.47	0.58	0.51	0.46	0.56	0.5	0.46
6	0.57	0.48	0.42	0.56	0.47	0.41	0.54	0.47	0.41	0.52	0.46	0.41	0.51	0.45	0.4
7	0.52	0.43	0.37	0.51	0.42	0.37	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.4	0.36
8	0.47	0.39	0.33	0.46	0.38	0.33	0.45	0.38	0.32	0.44	0.37	0.32	0.43	0.37	0.32
9	0.43	0.35	0.29	0.43	0.35	0.29	0.41	0.34	0.29	0.4	0.34	0.29	0.39	0.33	0.29
10	0.4	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.31	0.26

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Wall Exi tance 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	0.31	0.17	0.06	0.3	0.17	0.05	0.29	0.16	0.05	0.27	0.16	0.05	0.26	0.15	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	0.04
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	0.12	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	0.11	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	0.17	0.08	0.02
9	0.17	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	0.07	0.02

Ceiling Cavi ty Exi tance 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	0.02
2	0.17	0.13	0.1	0.15	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.03	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	0.14	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	0.03	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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 25

Humi di ty(%): 60

Tester: zxcg

Date: 2020-6-15

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0



Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-3A-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	44.5	45	44.7	45.6	45.9	46	45.4	45	0-5	1.08	1.08
10	43.3	43.9	43.8	45.2	46	45.8	45.2	44	5-10	3.22	4.3
15	41.6	42.5	42.4	44.5	45.6	45.2	44.5	42.8	10-15	5.24	9.54
20	39.7	40.7	40.8	43.3	44.9	44.3	43.5	41	15-20	7.08	16.6
25	37.4	38.5	38.7	41.9	43.8	42.9	42.1	39	20-25	8.68	25.3
30	34.8	36	36.3	40.1	42.3	41.2	40.3	37	25-30	10	35.3
35	32.3	33.2	33.6	37.9	40.4	39.2	38.1	33.7	30-35	11	46.3
40	28.7	30.1	30.6	35.4	38.2	36.7	35.6	30.6	35-40	11.6	57.8
45	25.1	26.8	27.3	32.6	35.6	33.9	32.8	27.4	40-45	11.7	69.6
50	21.4	23.3	23.9	29.6	32.7	30.8	29.7	23.8	45-50	11.5	81.1
55	17.7	19.6	20.2	26.3	29.5	27.4	26.3	20.1	50-55	10.9	92
60	13.9	15.8	16	22.8	26.1	23.9	22.7	16.3	55-60	9.96	102
65	9.57	12	2.28	19.1	22.4	20.1	18.9	12.7	60-65	8.2	110
70	5.64	8.32	2.27	15.3	18.6	16.2	15.1	8.07	65-70	6.53	117
75	2.34	4.03	1.2	11.6	14.7	12	11.2	4.32	70-75	4.91	122
80	0.18	1.2	0.44	7.2	10.9	7.88	6.83	1.43	75-80	3.25	125
85	0.07	0.1	0.13	3.61	6.47	4.1	3.31	0.12	80-85	1.78	127
90	0.07	0.11	0.07	0.91	2.7	2.61	0.55	0.16	85-90	0.82	127
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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 25

Humi dity(%): 60

Tester: zxcg

Date: 2020-6-15

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 215.1V I: 29.0mA P: 3.30W PF: 0.526 Test LM: 127.491m		
Lamp Name: LPDL-3A-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-3A-Y	Shape Si ze:
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	44.5	44.8	45	44.9	44.8	44.9	45.3	45.7	45.8	45.9	45.9	46	45.8	45.6	45.3	45.1	44.9	44.7
10.0	43.3	43.6	43.9	43.9	43.8	44.1	44.7	45.3	45.6	46	45.9	45.9	45.6	45.3	44.9	44.4	43.9	43.6
15.0	41.6	42	42.4	42.5	42.5	42.9	43.8	44.6	45.1	45.6	45.5	45.3	45	44.7	44.2	43.4	42.7	42.2
20.0	39.7	40.1	40.6	40.7	40.7	41.3	42.4	43.5	44.2	44.9	44.6	44.4	44	43.7	43	41.8	40.9	40.3
25.0	37.4	37.9	38.4	38.6	38.6	39.4	40.8	42.1	42.9	43.8	43.4	43	42.7	42.3	41.4	40	38.9	38.1
30.0	34.8	35.3	35.9	36.1	36.2	37.1	38.8	40.3	41.3	42.3	41.8	41.3	40.9	40.5	39.6	38.1	36.7	35.7
35.0	32.3	32.7	33.1	33.3	33.5	34.5	36.5	38.2	39.3	40.4	39.9	39.3	38.8	38.3	37.1	35.1	33.5	32.9
40.0	28.7	29.3	30	30.3	30.5	31.7	33.8	35.7	37	38.2	37.5	36.9	36.3	35.9	34.5	32.3	30.4	29.6
45.0	25.1	25.8	26.6	27	27.2	28.5	30.9	33	34.3	35.6	34.9	34.1	33.5	33	31.6	29.1	27.1	26.1
50.0	21.4	22.2	23.1	23.5	23.7	25.1	27.7	29.9	31.3	32.7	31.9	31	30.4	29.9	28.4	25.7	23.6	22.5
55.0	17.7	18.5	19.4	19.8	20.1	21.5	24.3	26.6	28.1	29.5	28.6	27.6	27	26.5	24.9	22.2	19.9	18.7
60.0	13.9	14.7	15.6	15.9	15.9	17.5	20.5	23.1	24.6	26.1	25.1	24.1	23.5	22.9	21.3	18.4	16.1	15
65.0	9.57	10.6	11.7	8.81	4.4	5.96	13.6	19.5	21	22.4	21.4	20.3	19.7	19.2	17.6	14.8	12.4	11
70.0	5.64	6.82	8.03	6.34	3.6	5.13	11.1	15.7	17.2	18.6	17.6	16.5	15.9	15.4	13.6	10.4	7.81	6.71
75.0	2.34	3.08	3.84	3.1	1.82	3.47	8.18	11.9	13.4	14.7	13.5	12.3	11.7	11.4	9.72	6.59	4.1	3.2
80.0	0.18	0.63	1.09	0.95	0.6	1.91	4.98	7.6	9.27	10.9	9.56	8.21	7.53	7.06	5.64	3.2	1.29	0.73
85.0	0.07	0.08	0.09	0.11	0.12	0.89	2.47	3.92	5.22	6.47	5.43	4.36	3.84	3.48	2.61	1.16	0.11	0.09
90.0	0.07	0.09	0.1	0.09	0.08	0.25	0.63	1.1	1.92	2.7	2.66	2.62	1.94	1	0.46	0.28	0.15	0.11
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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 25

Humi di ty(%): 60

Tester: zyg

Date: 2020-6-15

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0