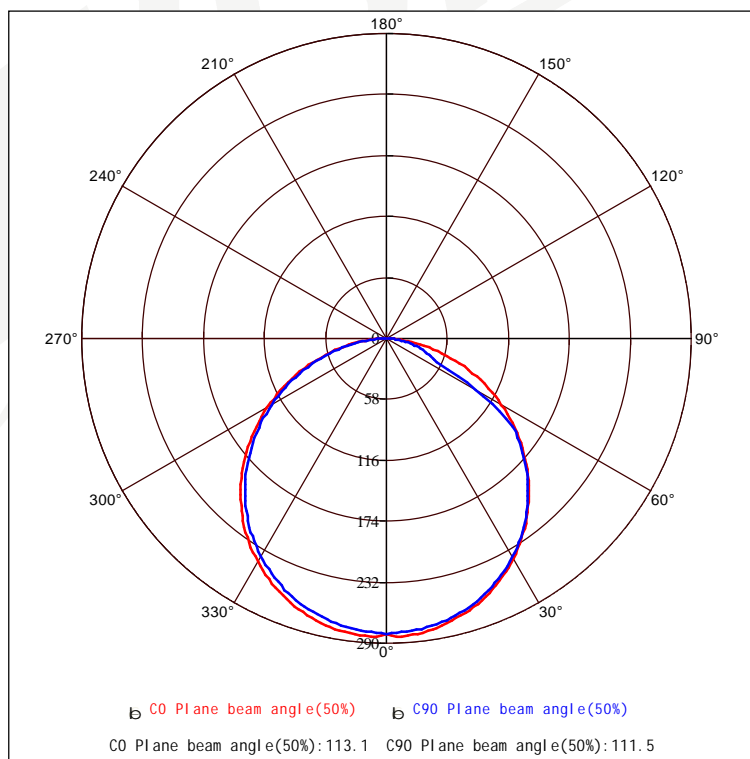


LED DOWN LIGHT

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm						
Lamp Name: LPDL-12A-Y		Lamp Type:		Weight(kg):		
Lamp ID:		Lamp Spec: LPDL-12A-Y		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-12A-Y		Peak Value(cd)	284.4	Efficiency(lm/w)	71.3
Nominal P(w)	1.0		Position	180.0, 1.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0		Total Flux(lm)	798.916	Down(C0-C180)	51.4
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)	48.6

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

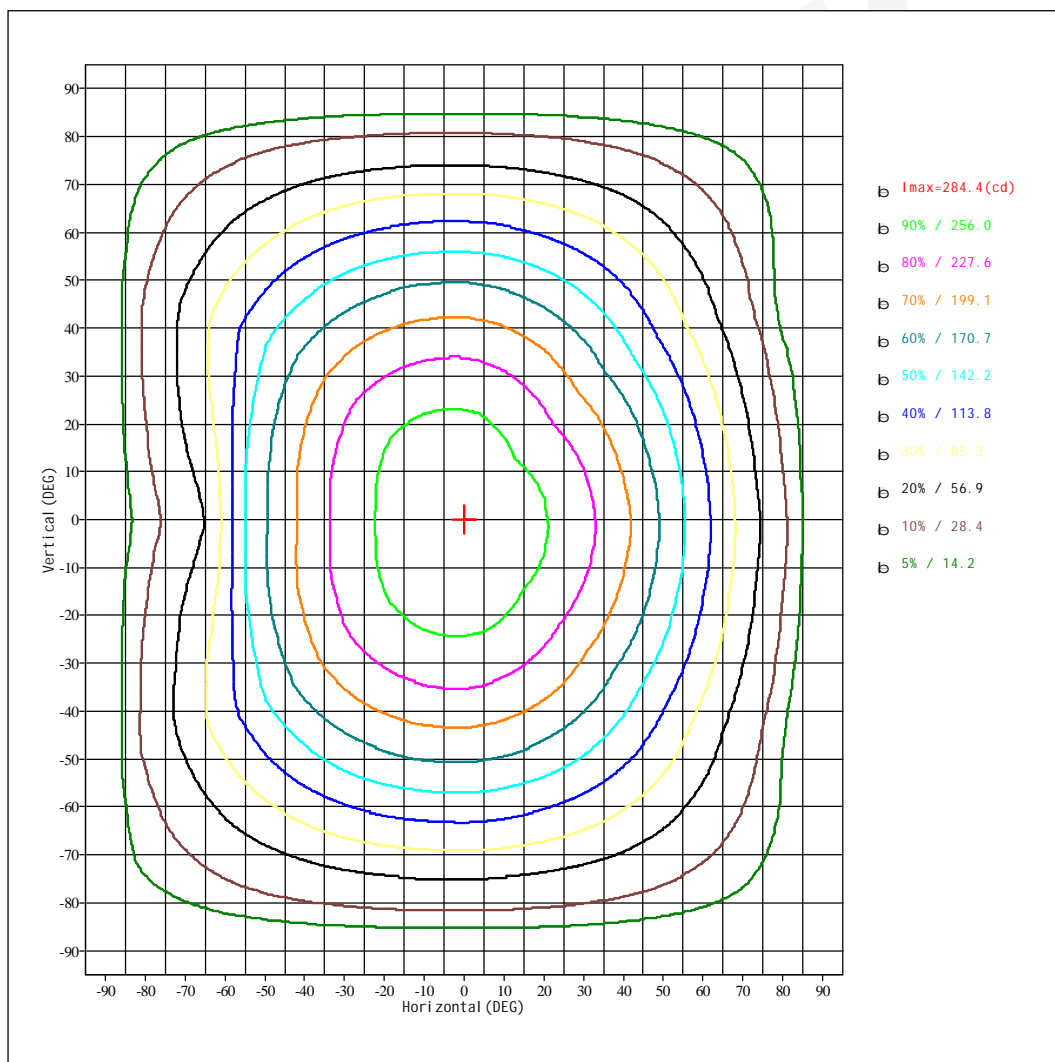
Humidity(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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

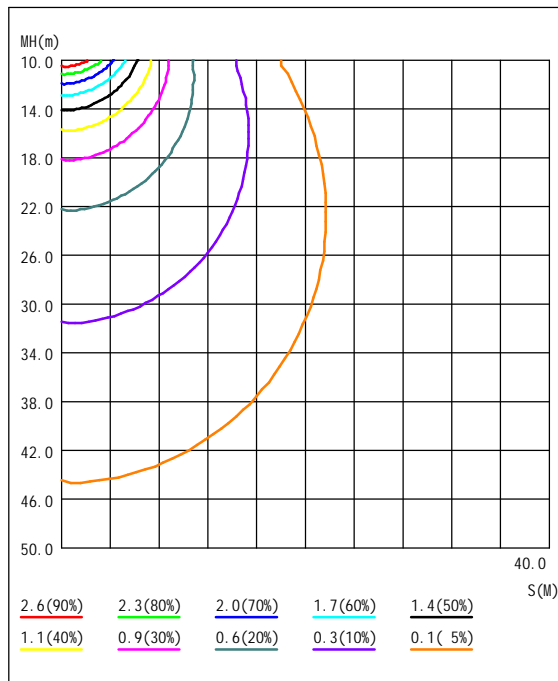
Humi di ty(%): 60

Date: 2020-6-15

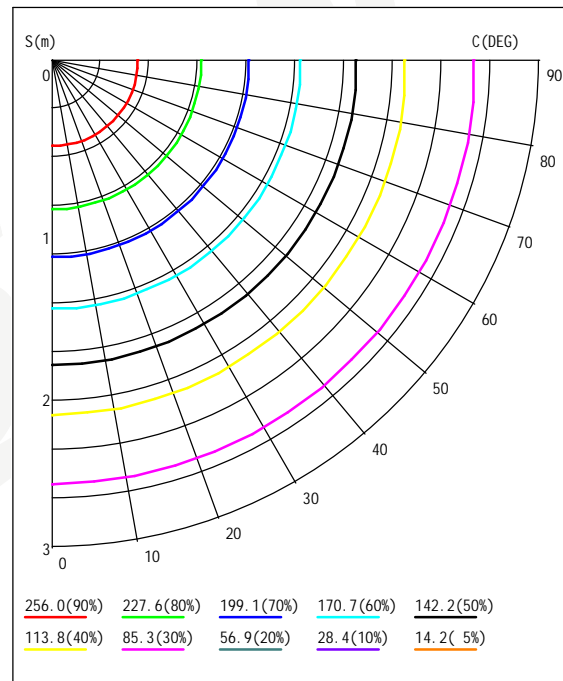
Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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

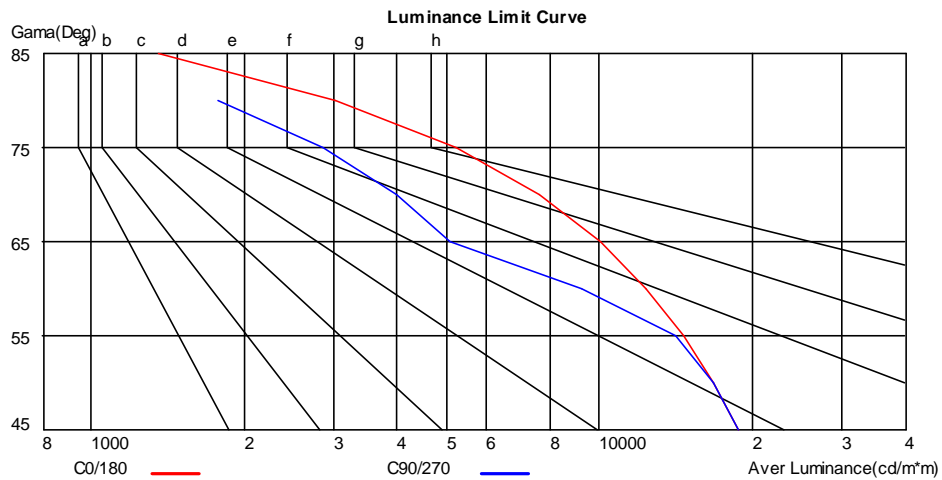
Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.921m		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	18882.5	16838.5	14658.5	12361.8	10046.8	7615.3	5232.8	3031.3	1352.8
C90	18784.5	16745.5	14198.2	9227.5	5089.3	4005.5	2857.5	1777.3	760.3

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): 25

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

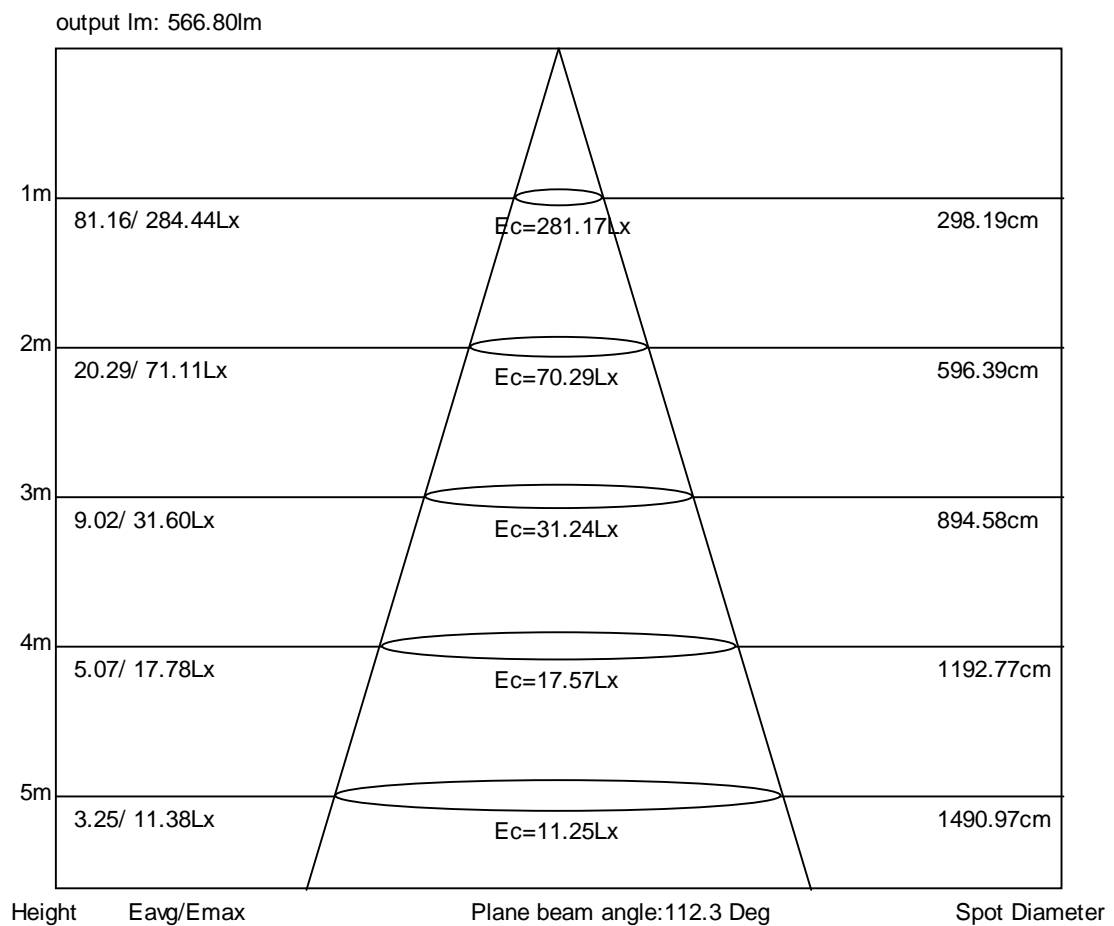
Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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

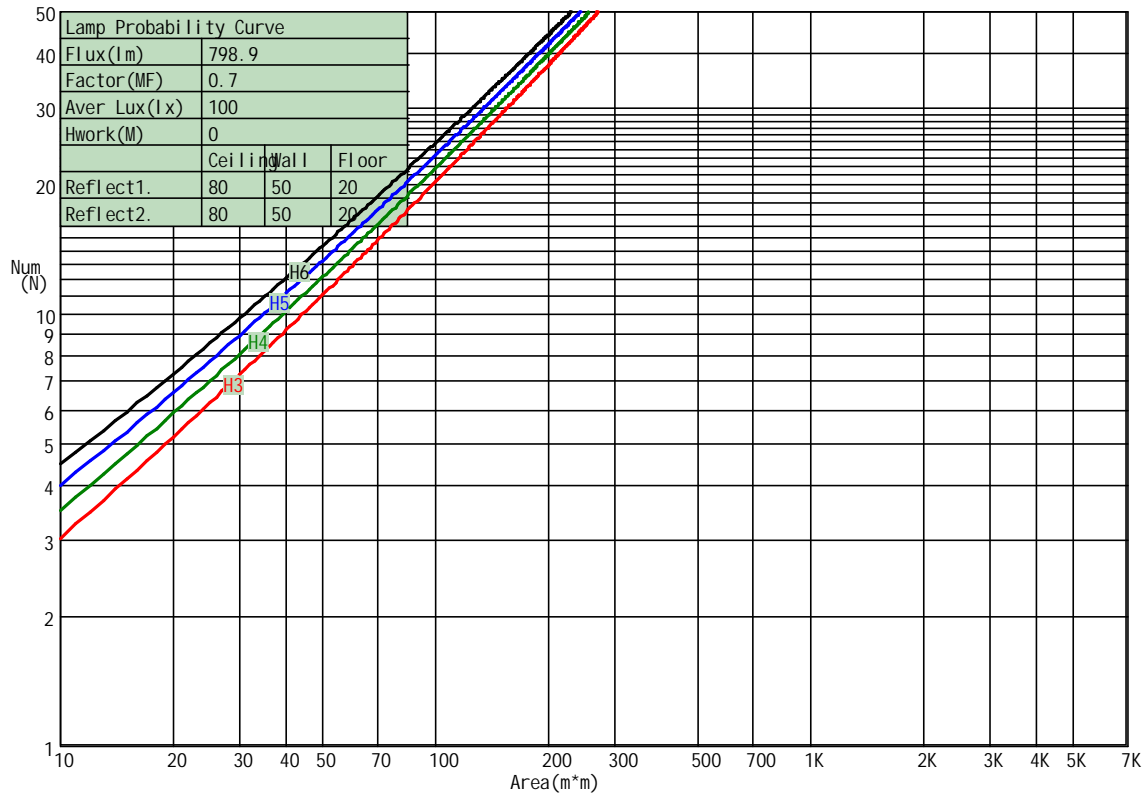
Humi di ty(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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: 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: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.921m		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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	53	38	29	51	37	29	48	36	28
0.80	57	41	30	55	40	30	51	38	29
1.00	60	43	32	58	42	31	53	40	30
1.25	63	45	32	60	44	31	55	41	30
1.50	65	47	33	62	45	32	56	41	30
2.00	68	49	34	64	47	33	57	43	30
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	1.04	1	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.94	0.91	0.88	0.9	0.88	0.86
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.8	0.75	0.82	0.77	0.74	0.79	0.75	0.72
3	0.8	0.71	0.65	0.78	0.7	0.64	0.75	0.69	0.63	0.72	0.67	0.62	0.7	0.65	0.61
4	0.7	0.62	0.55	0.69	0.61	0.55	0.67	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52
5	0.63	0.54	0.47	0.62	0.53	0.47	0.6	0.52	0.47	0.58	0.51	0.46	0.56	0.5	0.45
6	0.57	0.48	0.41	0.56	0.47	0.41	0.54	0.46	0.41	0.52	0.45	0.4	0.51	0.45	0.4
7	0.51	0.43	0.36	0.51	0.42	0.36	0.49	0.41	0.36	0.48	0.41	0.36	0.46	0.4	0.35
8	0.47	0.38	0.32	0.46	0.38	0.32	0.45	0.37	0.32	0.44	0.37	0.32	0.42	0.36	0.32
9	0.43	0.35	0.29	0.42	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	0.26	0.39	0.32	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.3	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

Humi dity(%): 60

Date: 2020-6-15

Remark:

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-12A-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	0.18	0.06	0.3	0.17	0.05	0.29	0.16	0.05	0.28	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	0.23	0.12	0.04	0.22	0.12	0.04
5	0.23	0.12	0.03	0.23	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	0.2	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	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.02	0.17	0.09	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	0.08	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	0.14	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: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-12A-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	283	282	279	279	284	279	279	275	0-5	6.71	6.71
10	279	279	276	277	280	275	275	270	5-10	19.9	26.6
15	272	274	270	273	275	268	269	262	10-15	32.4	59
20	264	267	262	267	267	259	261	252	15-20	43.9	103
25	253	257	251	258	256	247	250	240	20-25	53.9	157
30	240	245	239	247	244	234	238	226	25-30	62.1	219
35	225	231	224	233	229	218	223	210	30-35	68.2	287
40	208	216	207	218	213	200	206	192	35-40	72	359
45	189	198	188	201	194	181	188	173	40-45	73.4	433
50	168	178	167	182	174	160	167	152	45-50	72.2	505
55	147	158	142	161	152	137	146	129	50-55	68.5	573
60	124	137	92.3	139	129	115	124	107	55-60	61.8	635
65	100	113	50.9	116	105	90.7	100	83	60-65	52.2	687
70	76.2	89.9	40.1	92.3	81.1	66.8	77.1	59.4	65-70	42.5	730
75	52.3	65.9	28.6	68.3	57.1	43.8	53.7	37.2	70-75	32.3	762
80	30.3	42.7	17.8	45.1	34.5	23.3	32.1	17.7	75-80	21.6	784
85	13.5	22.2	7.6	24.3	15.3	5.67	13.8	2.17	80-85	11.6	795
90	1.91	3.79	2.36	5.32	1.83	1.68	1.68	1.7	85-90	3.71	799
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: zxg

Date: 2020-6-15

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 217.3V I: 85.0mA P: 11.20W PF: 0.604 Test LM: 798.92lm		
Lamp Name: LPDL-12A-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-12A-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	283	282	282	281	280	279	279	279	282	284	282	280	279	279	278	276	276	280
10.0	279	279	279	278	276	276	277	277	279	280	278	275	275	275	274	272	271	275
15.0	272	273	274	273	271	271	272	273	274	275	272	268	268	269	268	265	263	268
20.0	264	265	266	265	263	263	265	267	267	267	263	260	259	260	259	255	254	259
25.0	253	255	257	255	253	253	256	258	257	256	252	248	248	249	248	244	242	248
30.0	240	242	245	243	240	240	244	246	245	244	239	235	235	237	235	230	228	234
35.0	225	228	231	229	225	226	230	233	231	229	224	219	220	222	220	215	212	219
40.0	208	211	215	213	209	209	214	217	215	213	207	201	202	205	203	197	194	201
45.0	189	193	197	195	190	191	196	200	197	194	188	182	183	186	185	178	175	182
50.0	168	173	177	175	170	171	177	181	177	174	167	161	162	166	164	157	153	161
55.0	147	152	157	153	146	146	155	160	156	152	145	139	140	144	142	135	131	139
60.0	124	129	135	122	102	102	123	138	133	129	123	116	118	122	120	112	109	116
65.0	100	106	112	92.9	64.6	65.1	94.4	114	110	105	98.7	92.2	93.8	98.2	96.5	88.7	84.9	92.8
70.0	76.2	82.2	88.4	73.6	51	51.5	75.2	91.1	86	81.1	74.8	68.3	70.1	74.8	73.2	65.2	61.2	68.8
75.0	52.3	58.3	64.4	53.6	36.7	37.3	55.3	67.1	62	57.1	51.3	45.3	47.1	51.6	50.1	42.6	38.8	45.7
80.0	30.3	35.8	41.4	34.6	23.2	23.7	36.1	43.9	39.2	34.5	29.6	24.5	26.2	30.2	29	22.5	19.1	24.8
85.0	13.5	17.3	21.3	17.4	10.8	11.2	18.8	23.3	19.2	15.3	11.1	6.72	8.35	12	11.3	5.99	3.41	8.56
90.0	1.91	2.73	3.58	3.32	2.67	3.01	4.35	4.94	3.36	1.83	1.76	1.69	1.68	1.68	1.68	1.69	1.72	1.82
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: zxcg

Date: 2020-6-15

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0