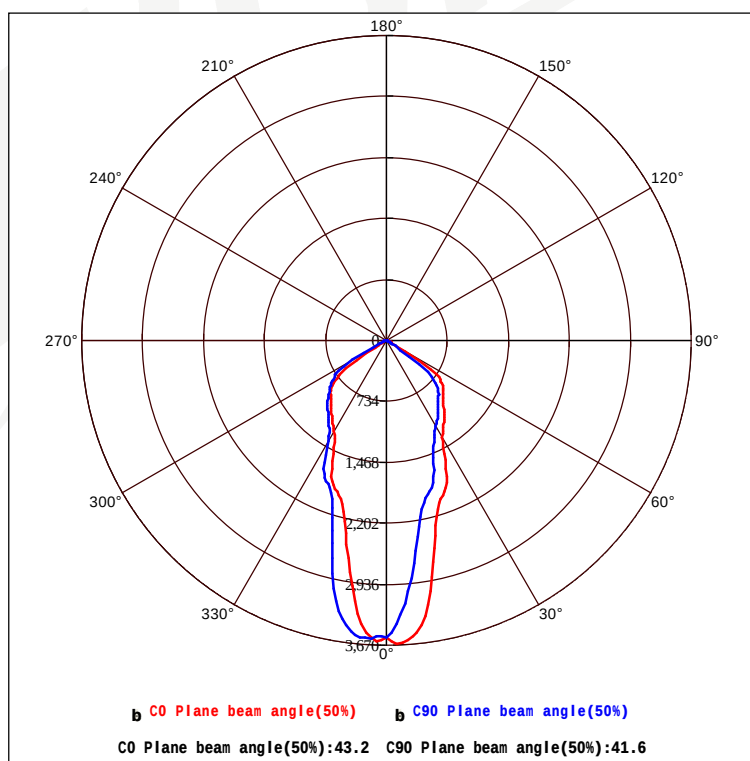


LED DOWN LIGHT

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm						
Lamp Name: LPDL-40A-Y			Lamp Type:		Weight(kg):	
Lamp ID:			Lamp Spec: LPDL-40A-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-40A-Y		Peak Value(cd)	3665.8	Efficiency(lm/w)	92.5
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	3570.038	Down(C0-C180)	46.6
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)	53.4

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

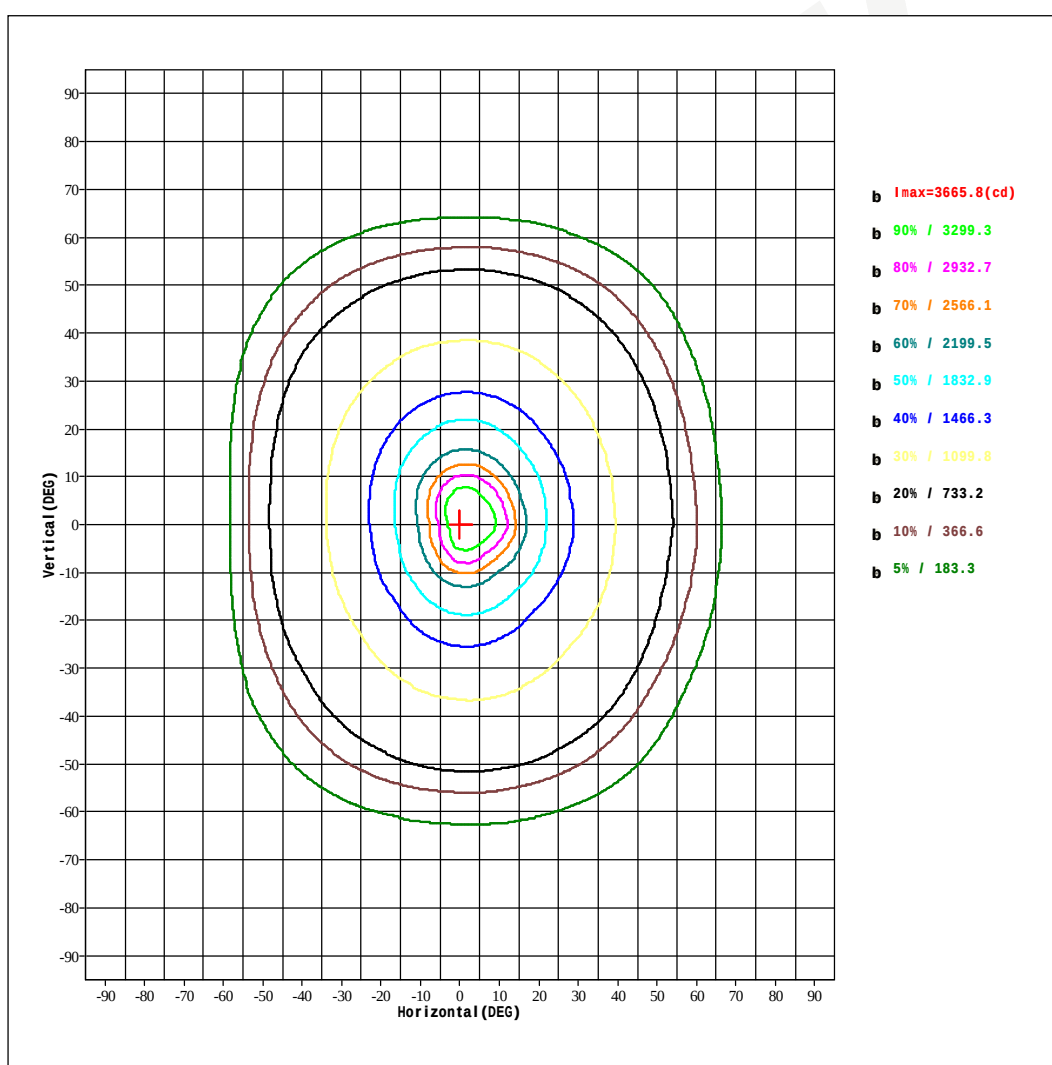
Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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: zyg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

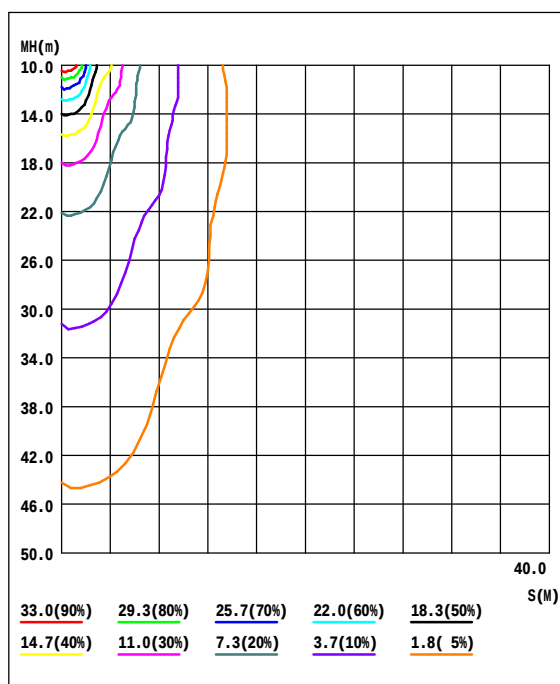
Humidity(%): 60

Date: 2021-7-23

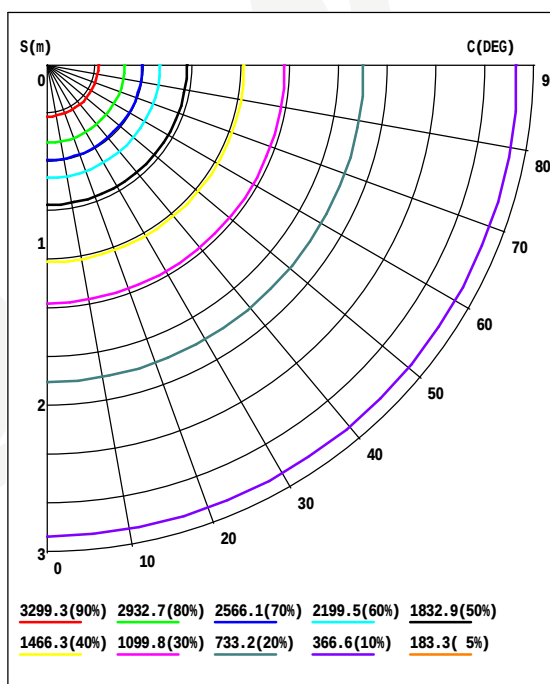
Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-Y	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: zyg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-7-23

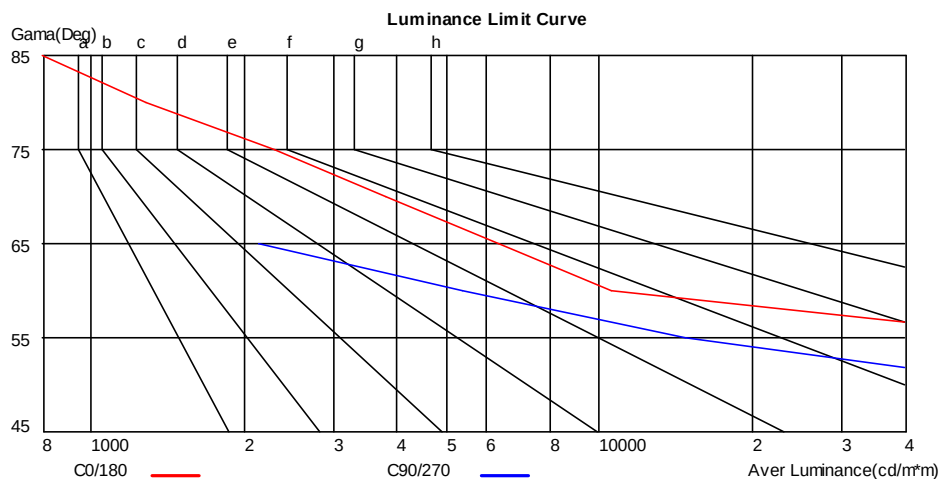
Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-Y	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	94677.8	87944.8	75469.0	10570.8	6339.5	3801.3	2285.5	1281.3	800.8
C90	87606.3	72449.5	14775.5	5386.0	2138.5	727.3	710.5	695.7	747.5

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: zyg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

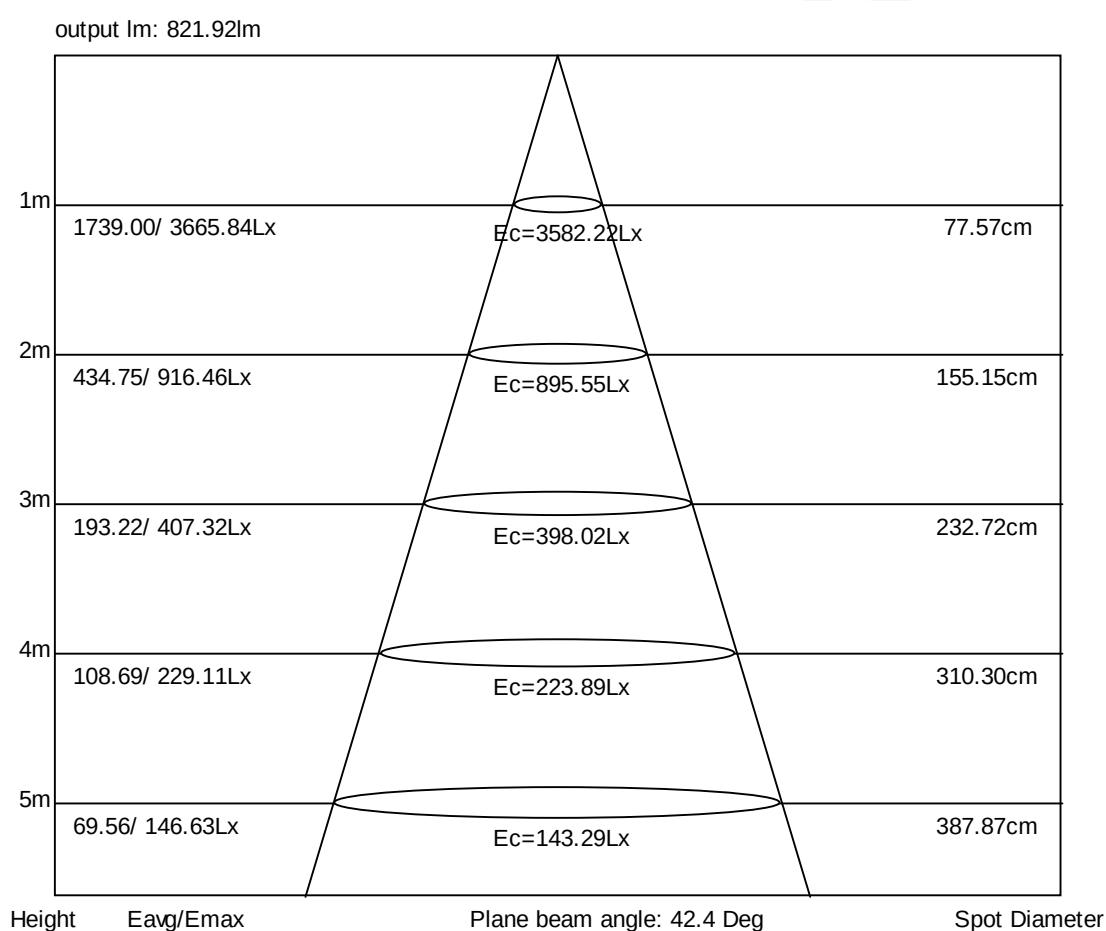
Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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: zyg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

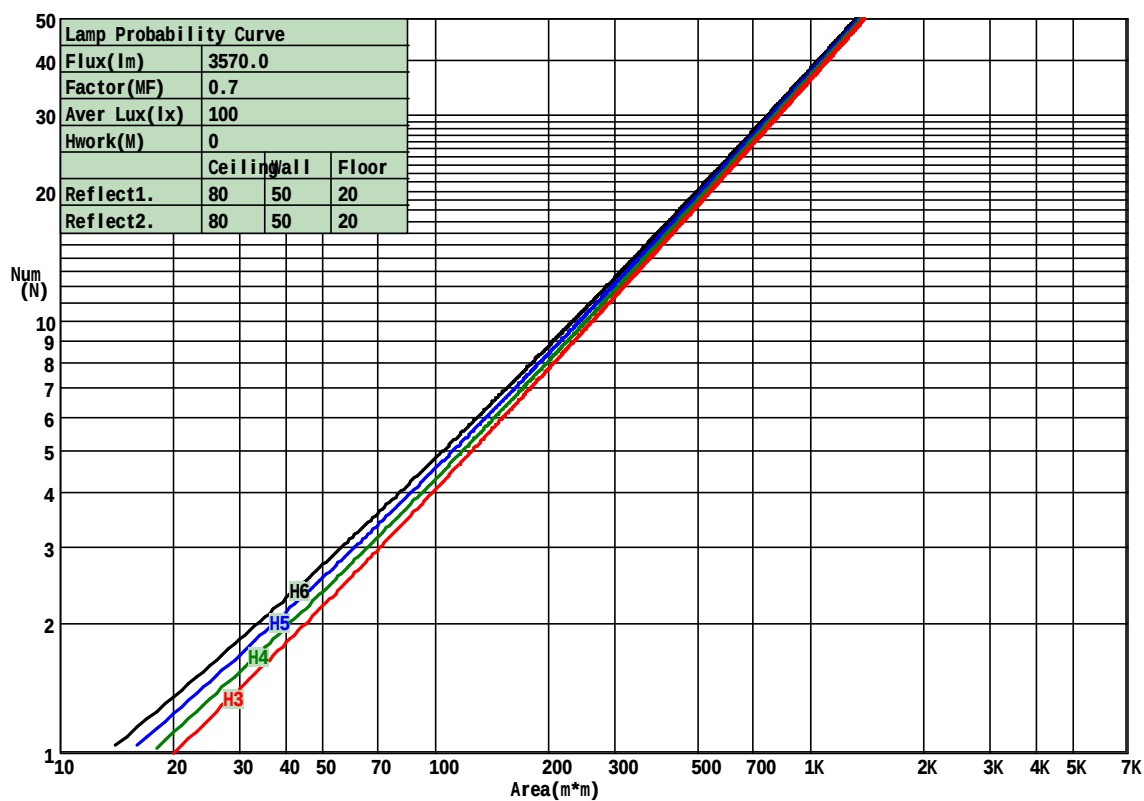
Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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	57	43	35	56	43	34	53	41	34
0.80	59	43	32	57	42	32	53	40	31
1.00	61	43	32	58	42	31	53	40	30
1.25	62	44	30	59	42	30	53	39	28
1.50	63	44	30	60	43	29	54	39	27
2.00	66	46	30	62	44	29	55	40	27
2.50	67	47	30	63	44	29	55	40	26
3.00	68	48	30	64	45	29	56	40	26
4.00	70	49	31	65	46	30	57	41	27
5.00	71	51	32	66	47	30	57	41	27

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	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1	0.98	0.98	0.97	0.95	0.95	0.94	0.92
2	0.99	0.93	0.89	0.97	0.92	0.88	0.93	0.9	0.86	0.9	0.87	0.84	0.87	0.85	0.83
3	0.89	0.83	0.78	0.88	0.82	0.78	0.85	0.8	0.76	0.83	0.79	0.75	0.8	0.77	0.74
4	0.82	0.75	0.69	0.8	0.74	0.69	0.78	0.72	0.68	0.76	0.71	0.67	0.74	0.7	0.66
5	0.75	0.67	0.62	0.73	0.67	0.62	0.72	0.66	0.61	0.7	0.65	0.6	0.68	0.63	0.6
6	0.68	0.61	0.56	0.68	0.61	0.56	0.66	0.6	0.55	0.64	0.59	0.55	0.63	0.58	0.54
7	0.63	0.56	0.51	0.62	0.55	0.5	0.61	0.55	0.5	0.6	0.54	0.5	0.58	0.53	0.5
8	0.58	0.51	0.46	0.58	0.51	0.46	0.57	0.5	0.46	0.55	0.5	0.46	0.54	0.49	0.45
9	0.54	0.47	0.43	0.54	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42
10	0.51	0.44	0.39	0.5	0.44	0.39	0.49	0.43	0.39	0.49	0.43	0.39	0.48	0.43	0.39

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

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: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm															
Lamp Name: LPDL-40A-Y								Lamp Type:				Weight(kg):			
Lamp ID:								Lamp Spec: LPDL-40A-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	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04	0.19	0.11	0.03	0.18	0.1	0.03
2	0.21	0.12	0.04	0.21	0.11	0.04	0.2	0.11	0.03	0.19	0.11	0.03	0.18	0.1	0.03
3	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.17	0.1	0.03
4	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.17	0.09	0.03	0.17	0.09	0.03
5	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
6	0.18	0.09	0.03	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
7	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02
8	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
9	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02
10	0.14	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	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	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.16	0.13	0.11	0.14	0.11	0.09	0.1	0.08	0.06	0.05	0.05	0.04	0.02	0.01	0.01
3	0.15	0.11	0.08	0.13	0.1	0.07	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	0.04	0.02	0.02	0.01	0.01
5	0.14	0.09	0.05	0.12	0.08	0.05	0.08	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.13	0.08	0.04	0.11	0.07	0.04	0.08	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.12	0.07	0.04	0.11	0.06	0.03	0.07	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	0.07	0.03	0.1	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.11	0.06	0.03	0.1	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.11	0.06	0.02	0.09	0.05	0.02	0.06	0.04	0.02	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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	3560	3367	2958	3103	3375	3448	3578	3515	0-5	83.1	83.1
10	2987	2622	2214	2316	2581	2716	3265	3120	5-10	217	300
15	2250	2043	1909	1916	2015	2039	2454	2320	10-15	282	582
20	1964	1849	1625	1654	1847	1859	1920	1916	15-20	322	903
25	1654	1461	1326	1313	1473	1500	1750	1711	20-25	353	1256
30	1329	1228	1182	1150	1248	1239	1371	1314	25-30	347	1603
35	1195	1110	1070	1043	1128	1130	1196	1184	30-35	350	1953
40	1064	1017	966	950	1028	1017	1088	1074	35-40	360	2313
45	947	926	876	868	943	937	986	962	40-45	361	2674
50	879	822	724	732	840	855	873	868	45-50	356	3030
55	755	562	148	267	514	590	755	739	50-55	309	3339
60	106	66.1	53.9	65.5	72.8	69	386	173	55-60	143	3483
65	63.4	48.3	21.4	44	50.6	48.4	65.1	52.4	60-65	34.3	3517
70	38	29.3	7.27	26.3	34	33	47.8	38.4	65-70	20.3	3537
75	22.9	18.4	7.11	15.8	22.7	22	29.8	25	70-75	13.3	3551
80	12.8	10.5	6.96	9.1	13.1	12.7	19.3	15.8	75-80	8.65	3559
85	8.01	7.36	7.48	7.55	10.7	10.4	11.9	10.7	80-85	5.7	3565
90	7.96	7.82	8.15	7.96	11.1	10.7	10.5	10.2	85-90	5.02	3570
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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-7-23

Remark:

Measured Para U: 215.5V I: 276.0mA P: 38.60W PF: 0.648 Test LM: 3570.04lm		
Lamp Name: LPDL-40A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-40A-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	3560	3475	3388	3232	3047	2990	3056	3133	3256	3375	3407	3440	3491	3550	3565	3536	3520	3540
10.0	2987	2827	2662	2488	2303	2236	2283	2345	2465	2581	2640	2701	2896	3145	3233	3168	3106	3045
15.0	2250	2159	2065	1999	1938	1910	1914	1927	1972	2015	2025	2036	2175	2363	2424	2364	2313	2281
20.0	1964	1913	1861	1775	1674	1631	1644	1675	1762	1847	1852	1857	1879	1907	1919	1918	1921	1943
25.0	1654	1570	1482	1417	1356	1323	1317	1330	1403	1473	1485	1497	1582	1695	1741	1723	1704	1679
30.0	1329	1285	1239	1213	1192	1175	1161	1161	1205	1248	1244	1240	1282	1342	1359	1333	1316	1323
35.0	1195	1158	1119	1097	1079	1064	1052	1052	1091	1128	1129	1130	1152	1182	1194	1188	1186	1190
40.0	1064	1044	1022	1000	977	963	955	958	994	1028	1023	1018	1040	1072	1085	1079	1073	1069
45.0	947	938	929	910	887	874	870	876	910	943	940	938	953	975	980	970	960	953
50.0	879	854	828	790	746	726	729	744	793	840	847	853	861	869	872	870	869	875
55.0	755	670	583	426	238	174	228	294	406	514	547	582	644	719	751	744	741	748
60.0	106	88.4	70.5	62.1	56.5	56.4	61.7	66.3	69.6	72.8	71.1	69.4	173	316	339	243	166	135
65.0	63.4	56.8	49.9	39.5	27.3	26.3	36.6	44.7	47.7	50.6	49.6	48.6	53.9	61.4	62.3	56.5	53.6	58.6
70.0	38	34.2	30.2	22	12.1	11.4	20.1	27.1	30.6	34	33.5	33.1	37.8	44.5	45.7	41.5	38.4	38.2
75.0	22.9	20.9	18.9	14.7	9.58	9	12.9	16.5	19.7	22.7	22.4	22.1	24.6	28.1	28.7	26.6	24.8	23.8
80.0	12.8	11.8	10.8	9.34	7.73	7.43	8.39	9.53	11.3	13.1	12.9	12.8	14.9	17.9	18.5	17	15.5	14.1
85.0	8.01	7.72	7.43	7.4	7.45	7.49	7.52	7.9	9.34	10.7	10.6	10.5	10.9	11.6	11.6	11.1	10.4	9.19
90.0	7.96	7.9	7.83	7.93	8.08	8.11	8.02	8.29	9.7	11.1	10.9	10.7	10.6	10.5	10.4	10.3	9.92	8.92
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
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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: 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: 2021-7-23

Remark: