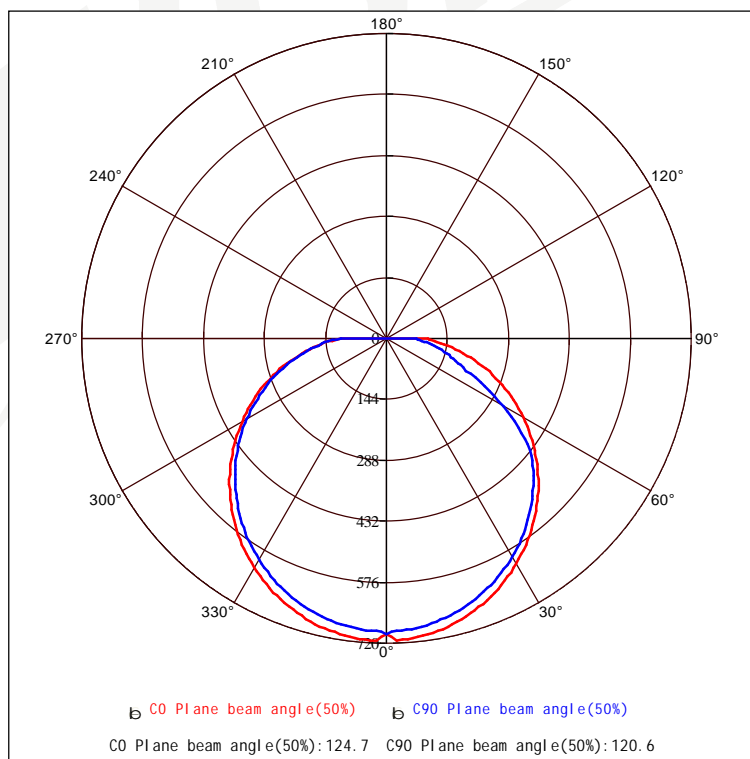


LED DOWN LIGHT

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm					
Lamp Name: LPDL-30A-Y		Lamp Type:		Weight(kg):	
Lamp ID:		Lamp Spec:		Shape Size:	
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):	
Light Source Data			Photometric Data		
Model		Peak Value(cd)	714.4	Efficiency(lm/w)	81.8
Nominal P(w)	1.0	Position	180.0, 1.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0	Total Flux(lm)	2363.645	Down(C0-C180)	49.6
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)	50.4

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

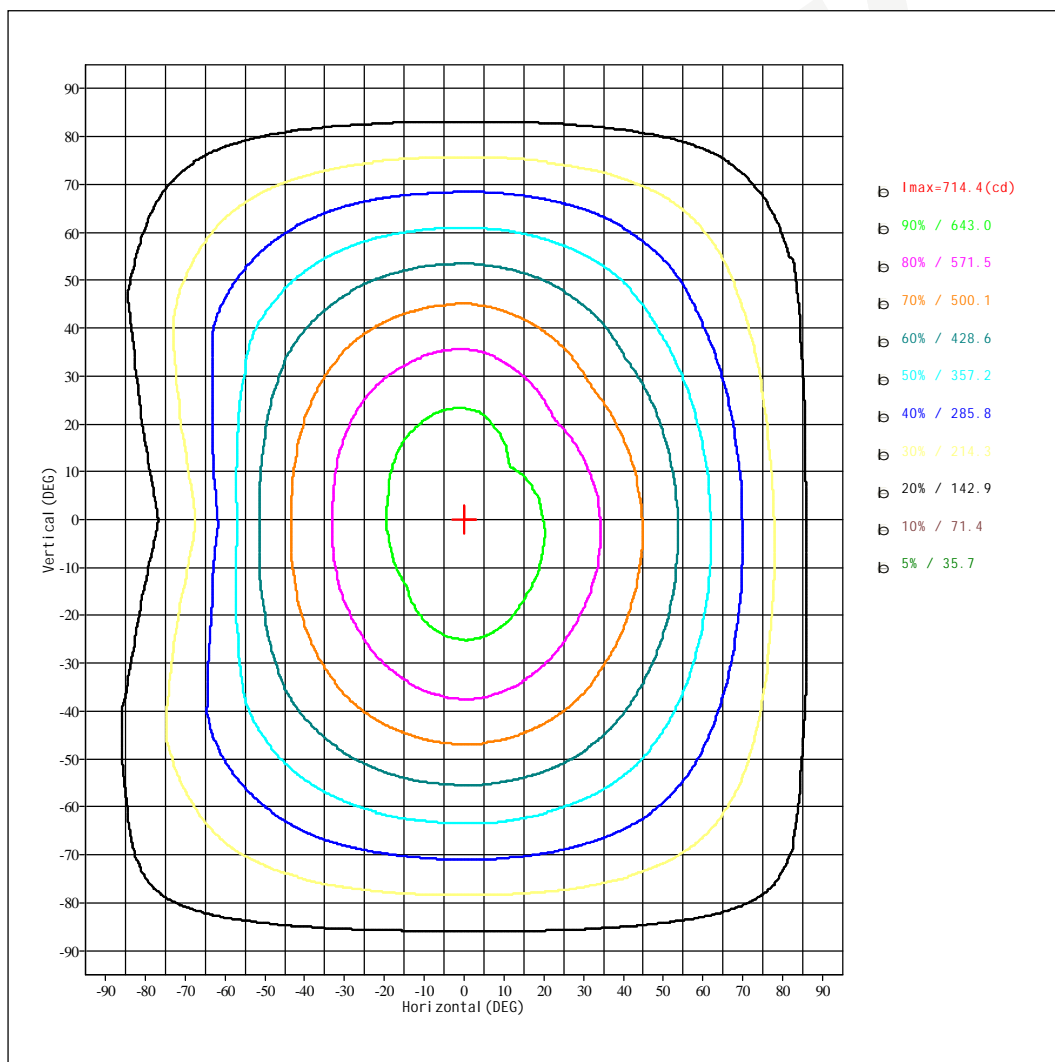
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	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): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

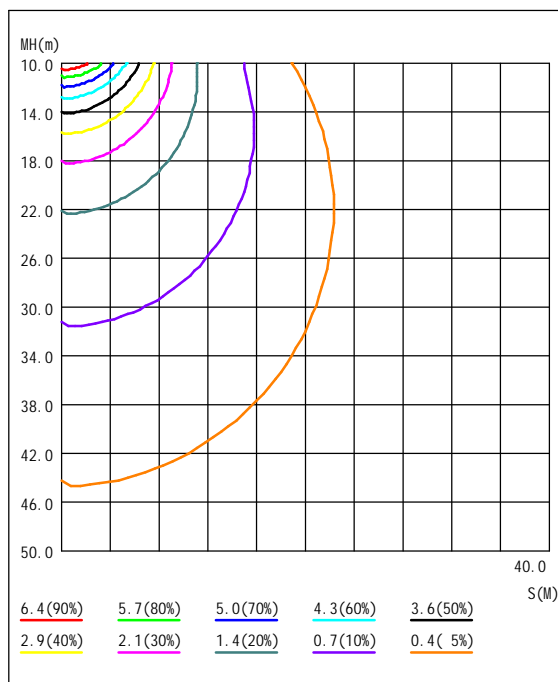
Humi di ty(%): 60

Date: 2021-10-11

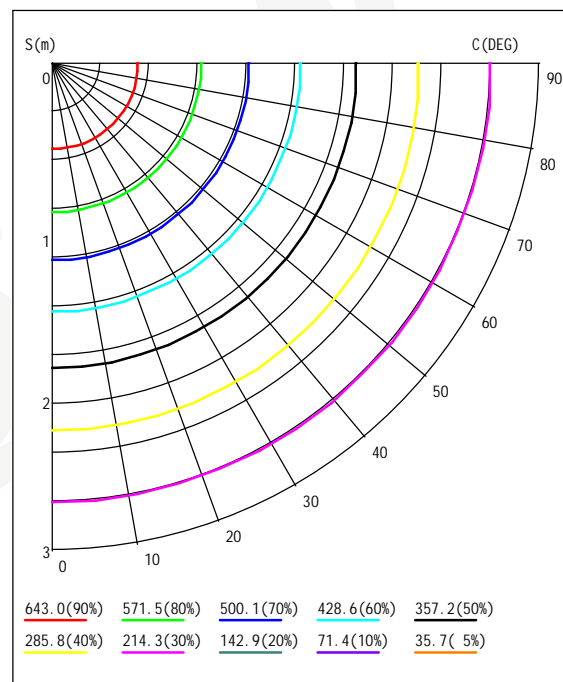
Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	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): 30

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: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

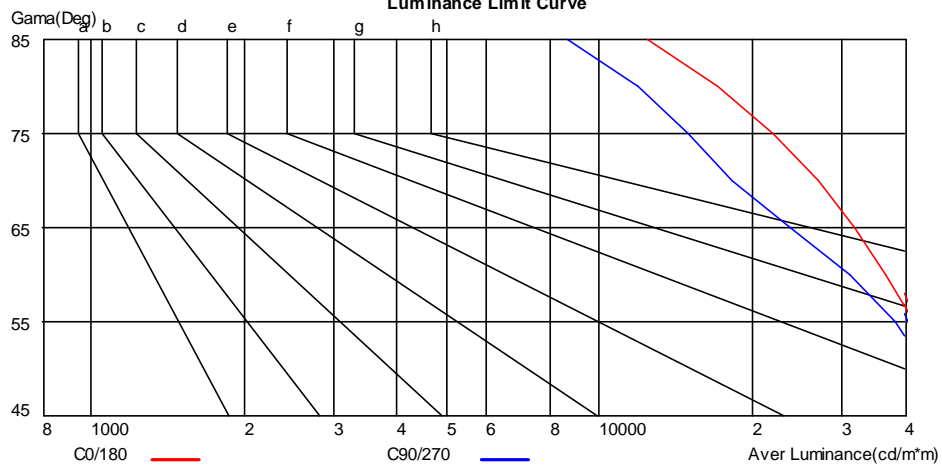
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	50352.5	46064.3	41568.5	36824.8	31964.0	27001.0	22016.3	17122.3	12466.8
C90	48721.3	44504.5	38322.5	31162.8	23747.8	18336.3	14966.3	11911.0	8690.0

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): 30

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

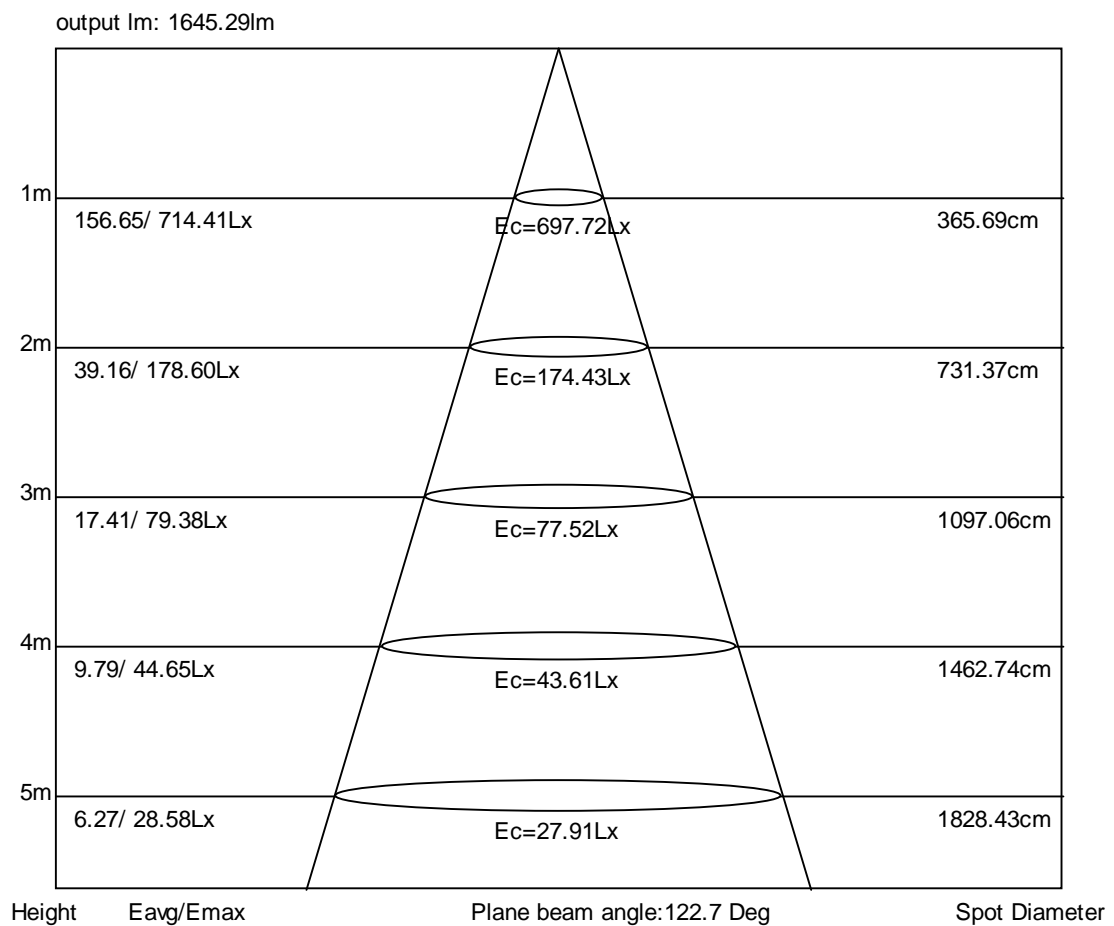
Humi di ty(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

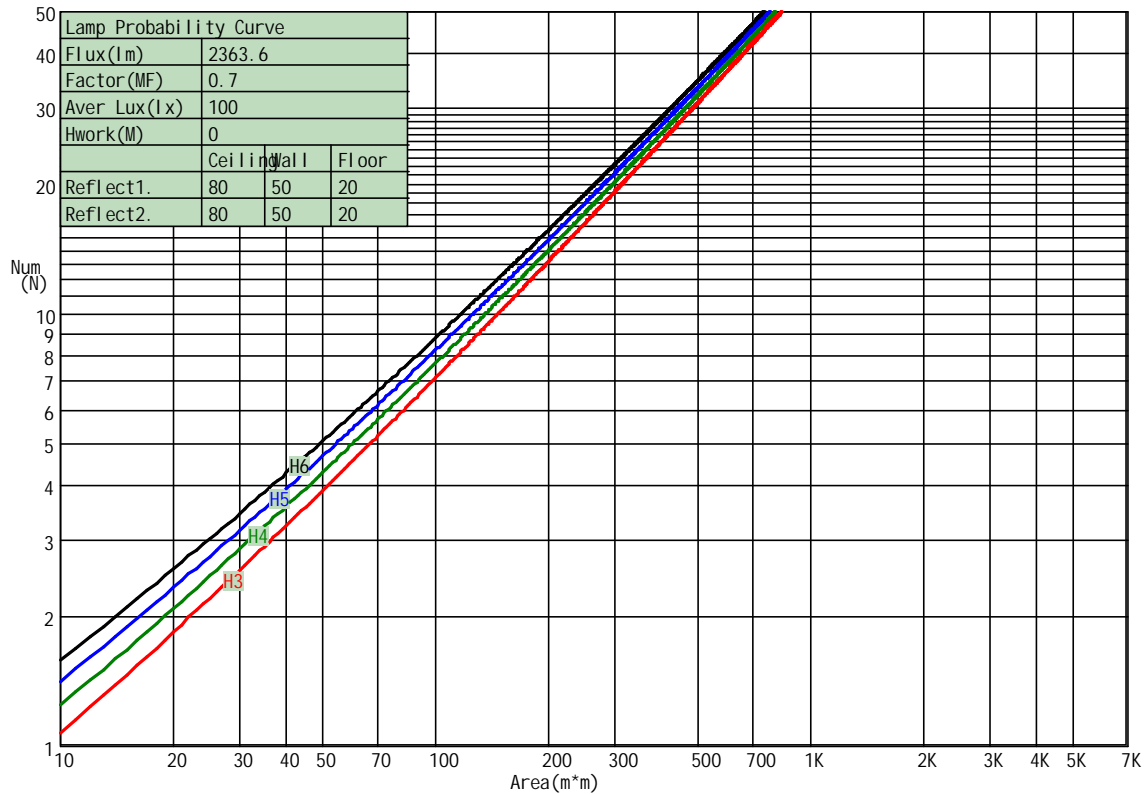
Humi di ty(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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

Humi di ty(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	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	27	50	35	26	46	34	26
0.80	56	39	28	54	38	28	50	36	27
1.00	59	42	30	57	41	29	52	38	28
1.25	63	44	31	60	43	30	54	40	29
1.50	65	46	32	61	44	31	55	41	29
2.00	68	49	34	64	47	33	57	42	30
2.50	69	50	34	65	48	33	58	43	30
3.00	71	51	35	66	48	33	59	43	30
4.00	72	52	35	68	50	34	59	44	30
5.00	73	53	36	69	50	34	60	44	31

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	0.95	0.9	0.98	0.93	0.89	0.94	0.9	0.86	0.9	0.86	0.83	0.86	0.83	0.81
2	0.86	0.78	0.72	0.84	0.77	0.71	0.81	0.74	0.69	0.77	0.72	0.67	0.74	0.7	0.66
3	0.75	0.66	0.59	0.73	0.65	0.58	0.7	0.63	0.57	0.67	0.61	0.56	0.65	0.59	0.55
4	0.66	0.56	0.49	0.65	0.56	0.49	0.62	0.54	0.48	0.6	0.53	0.47	0.57	0.51	0.47
5	0.59	0.49	0.42	0.57	0.48	0.42	0.55	0.47	0.41	0.53	0.46	0.41	0.51	0.45	0.4
6	0.53	0.43	0.36	0.52	0.43	0.36	0.5	0.42	0.36	0.48	0.41	0.35	0.46	0.4	0.35
7	0.48	0.38	0.32	0.47	0.38	0.32	0.45	0.37	0.31	0.44	0.37	0.31	0.42	0.36	0.31
8	0.43	0.34	0.28	0.43	0.34	0.28	0.41	0.34	0.28	0.4	0.33	0.28	0.39	0.32	0.28
9	0.4	0.31	0.25	0.39	0.31	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.29	0.25
10	0.37	0.28	0.23	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.23	0.33	0.27	0.23

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

Humi di ty(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	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	0.38	0.21	0.07	0.37	0.21	0.07	0.36	0.2	0.07	0.34	0.2	0.06	0.33	0.19	0.06
2	0.33	0.18	0.06	0.33	0.18	0.06	0.31	0.17	0.05	0.3	0.17	0.05	0.29	0.17	0.05
3	0.3	0.16	0.05	0.29	0.16	0.05	0.28	0.15	0.05	0.27	0.15	0.05	0.26	0.15	0.05
4	0.27	0.14	0.04	0.26	0.14	0.04	0.26	0.14	0.04	0.25	0.13	0.04	0.24	0.13	0.04
5	0.25	0.13	0.04	0.24	0.12	0.04	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04
6	0.23	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03
7	0.21	0.1	0.03	0.21	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03
8	0.19	0.09	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
9	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02
10	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

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	0.16	0.13	0.11	0.11	0.09	0.08	0.06	0.05	0.04	0.02	0.02	0.01
2	0.18	0.13	0.09	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	0.17	0.11	0.07	0.15	0.1	0.06	0.1	0.07	0.04	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.14	0.09	0.05	0.1	0.06	0.03	0.06	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.04	0.13	0.08	0.04	0.09	0.06	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.15	0.08	0.04	0.13	0.07	0.03	0.09	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	0.02	0.08	0.04	0.02	0.05	0.03	0.01	0.01	0.01	0
9	0.13	0.07	0.02	0.11	0.06	0.02	0.08	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): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2021-10-11

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0



Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.64lm		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	710	699	688	683	712	699	689	678	0-5	16.6	16.6
10	700	690	678	677	704	690	681	667	5-10	49.4	66
15	685	675	663	665	691	675	668	650	10-15	80.5	147
20	665	655	644	647	672	655	649	628	15-20	109	256
25	640	630	620	625	649	630	627	603	20-25	134	390
30	611	602	592	599	622	602	600	575	25-30	155	545
35	579	570	561	570	591	571	570	543	30-35	172	717
40	542	536	525	537	556	537	537	509	35-40	184	902
45	504	498	487	503	518	500	500	472	40-45	191	1093
50	461	459	445	465	477	461	461	434	45-50	193	1286
55	416	418	383	426	434	420	420	394	50-55	190	1476
60	368	375	312	384	388	377	377	351	55-60	180	1656
65	320	330	237	341	344	333	332	308	60-65	166	1822
70	270	285	183	297	296	287	286	264	65-70	149	1971
75	220	238	150	252	247	241	240	219	70-75	130	2101
80	171	193	119	207	198	196	194	176	75-80	109	2210
85	125	148	86.9	163	151	152	149	137	80-85	86.9	2297
90	97.6	115	70.4	126	108	127	107	124	85-90	66.7	2364
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: 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: 2021-10-11

Remark:

Measured Para U: 217.4V I: 208.0mA P: 28.90W PF: 0.637 Test LM: 2363.641m		
Lamp Name: LPDL-30A-Y	Lamp Type:	Weight (kg):
Lamp ID:	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	710	705	700	695	690	687	685	686	699	712	706	700	696	691	687	682	681	696
10.0	700	696	691	686	681	678	677	680	692	704	698	691	687	683	678	671	670	686
15.0	685	681	676	671	666	664	664	668	679	691	684	676	672	669	664	656	654	670
20.0	665	660	656	651	646	644	646	650	661	672	664	656	653	650	645	635	632	649
25.0	640	636	631	627	622	621	623	628	638	649	641	632	629	628	622	611	607	624
30.0	611	607	603	599	594	593	596	601	612	622	613	605	602	601	595	583	579	595
35.0	579	575	571	567	563	563	567	572	582	591	582	573	571	571	564	552	547	563
40.0	542	539	536	532	528	528	533	539	548	556	548	539	537	537	531	518	513	528
45.0	504	501	499	495	490	491	498	504	511	518	510	502	500	500	494	482	476	490
50.0	461	460	459	455	448	449	458	466	472	477	470	463	461	461	455	443	437	449
55.0	416	417	418	407	391	392	412	427	430	434	428	422	420	420	414	402	396	406
60.0	368	371	374	354	325	327	360	385	386	388	383	378	377	377	371	360	353	361
65.0	320	324	329	300	258	260	307	341	343	344	339	334	332	332	327	316	309	314
70.0	270	276	283	251	205	208	259	297	296	296	292	288	287	286	281	271	264	267
75.0	220	228	236	209	169	172	218	251	249	247	244	242	241	240	236	226	219	220
80.0	171	181	190	169	135	138	178	206	202	198	197	196	195	194	190	182	175	173
85.0	125	135	146	128	100	104	138	162	157	151	151	152	151	150	146	141	136	130
90.0	97.6	105	113	100	80.2	82.5	108	124	116	108	116	125	120	111	110	118	121	109
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): 30

Humi di ty(%): 60

Tester: zyg

Date: 2021-10-11

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0