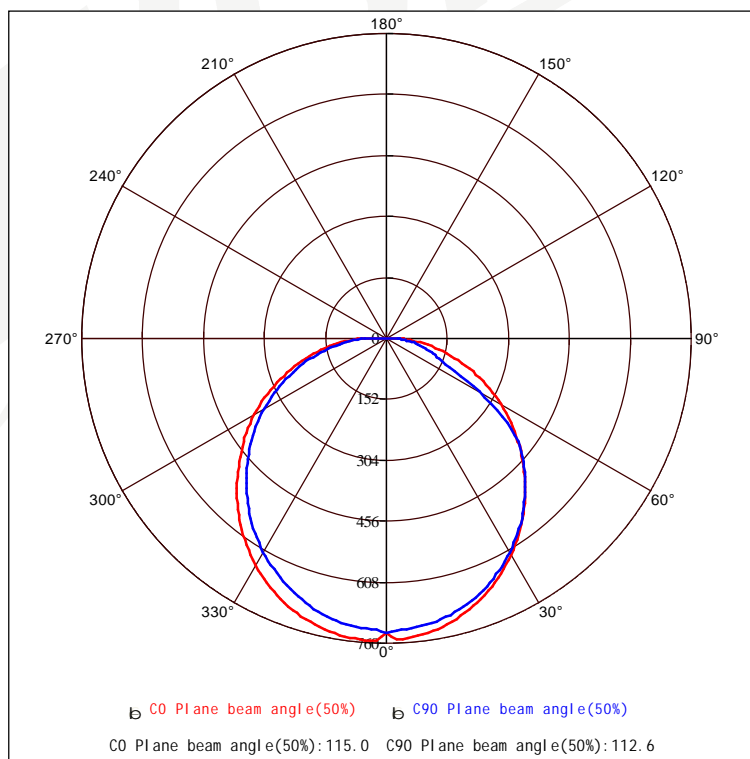


Goniophotometer Test Report

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm						
Lamp Name: LP-DL24MF01-YB-C		Lamp Type:		Weight(kg):		
Lamp ID: LP-DL24MF01-YB-C		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LP-DL24MF01-YB-C		Peak Value(cd)	754.4	Efficiency(lm/w)	98.0
Nominal P(w)	1.0		Position	180.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	2381.4	Down(C0-C180)	50.0
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)	50.0

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

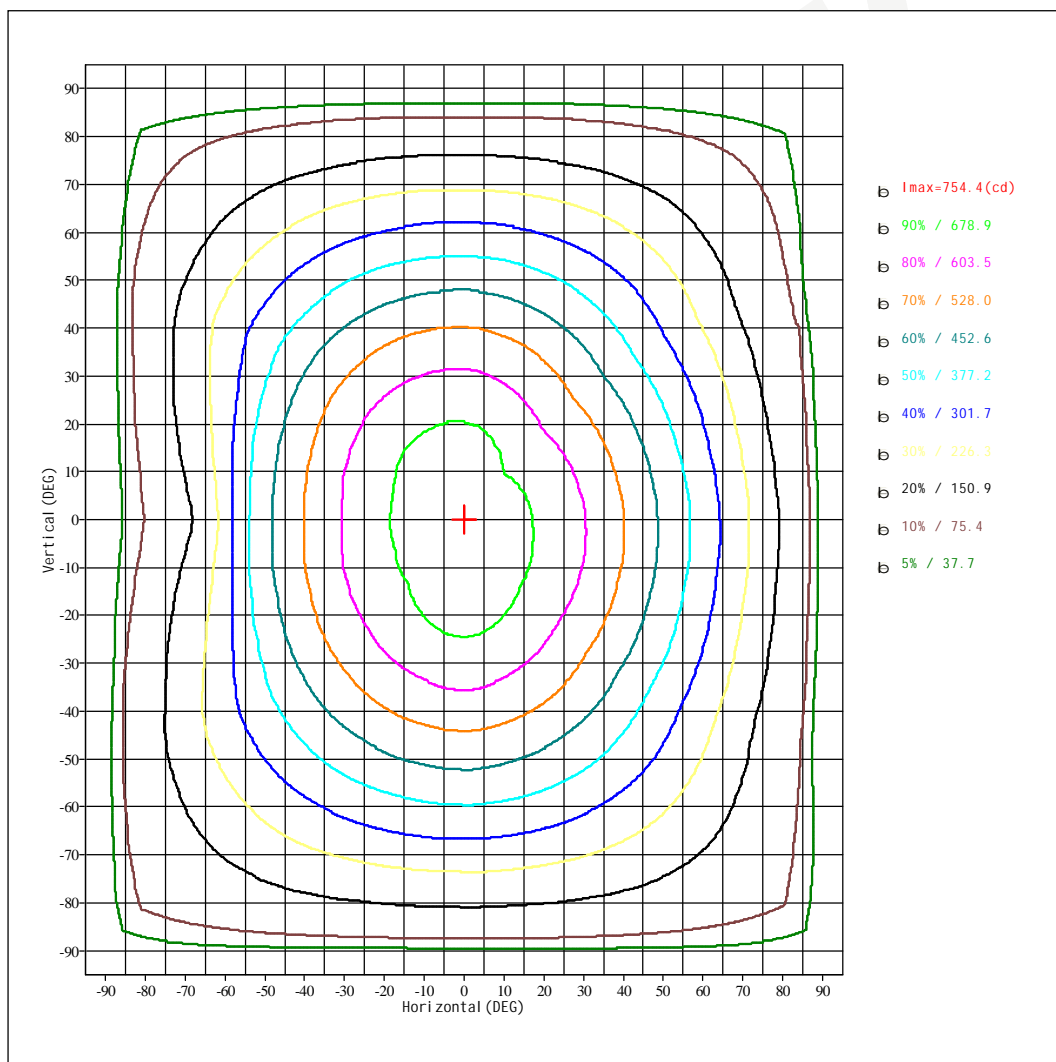
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	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

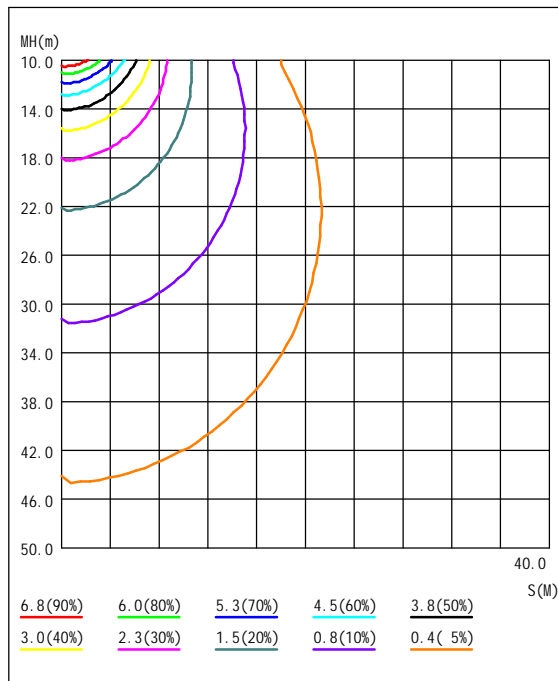
Humi di ty(%): 60

Date: 2023-10-23

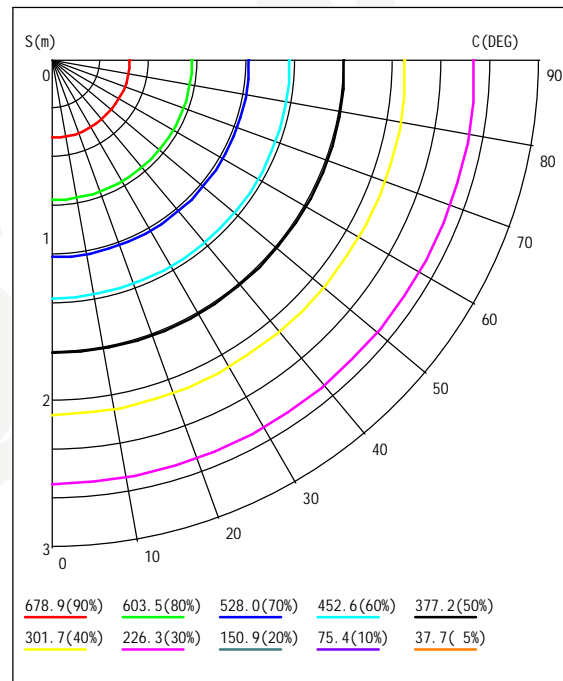
Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	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: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

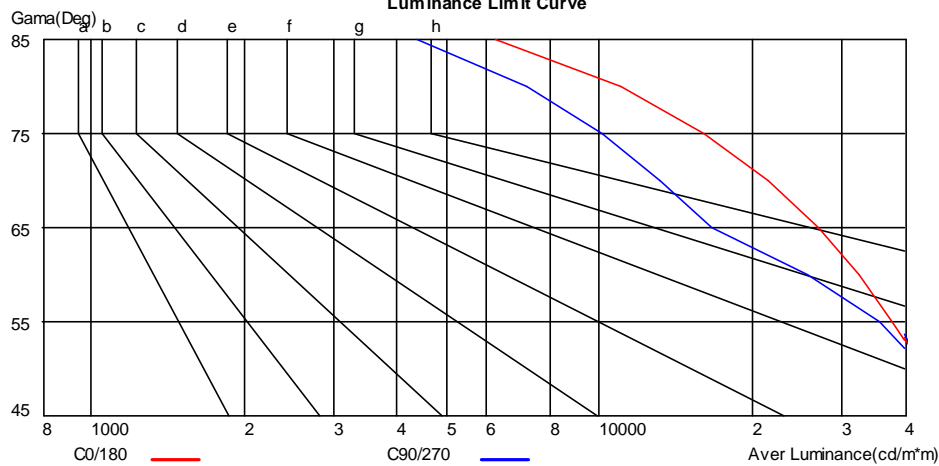
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	48296.5	43171.3	37883.8	32431.5	26958.0	21491.5	16125.3	11020.8	6259.3
C90	48337.3	43364.5	35794.5	25686.8	16685.8	13148.8	10169.8	7189.5	4387.0

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

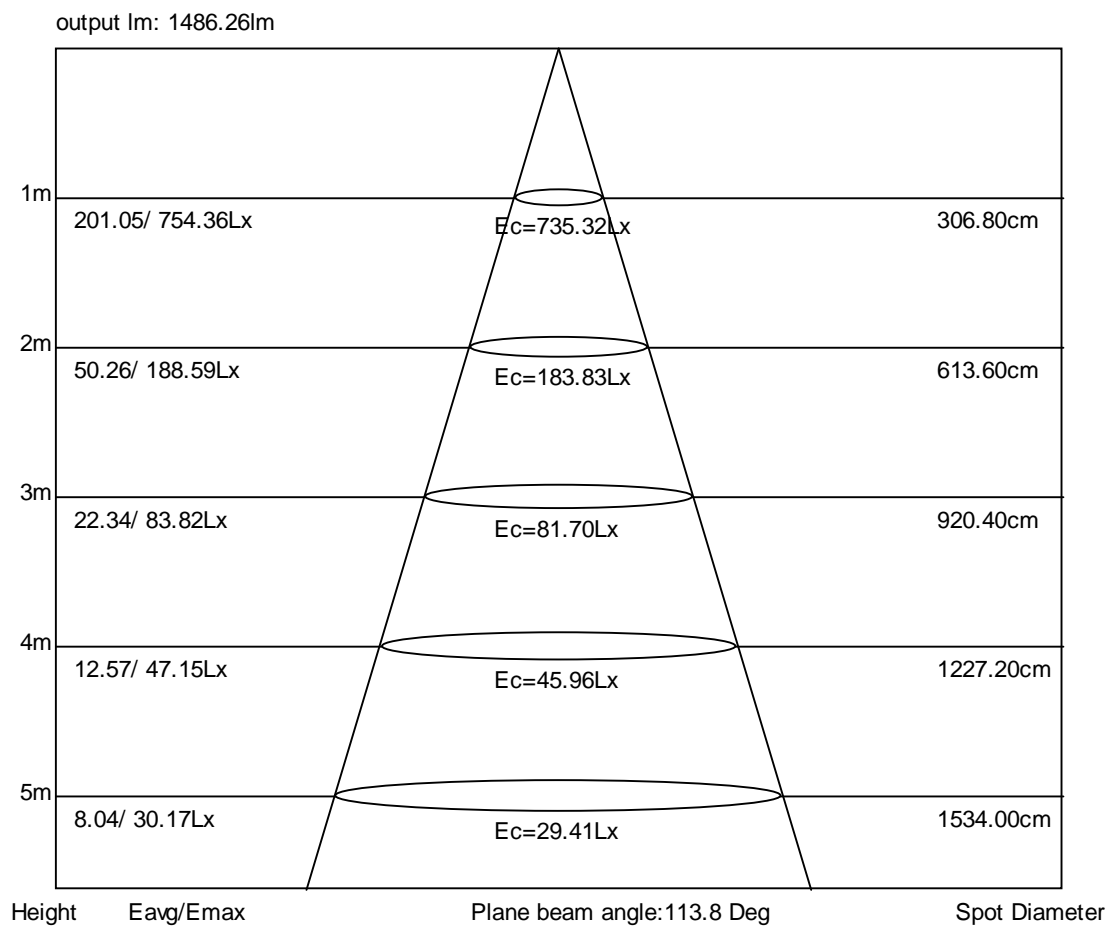
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec:	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): 30

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

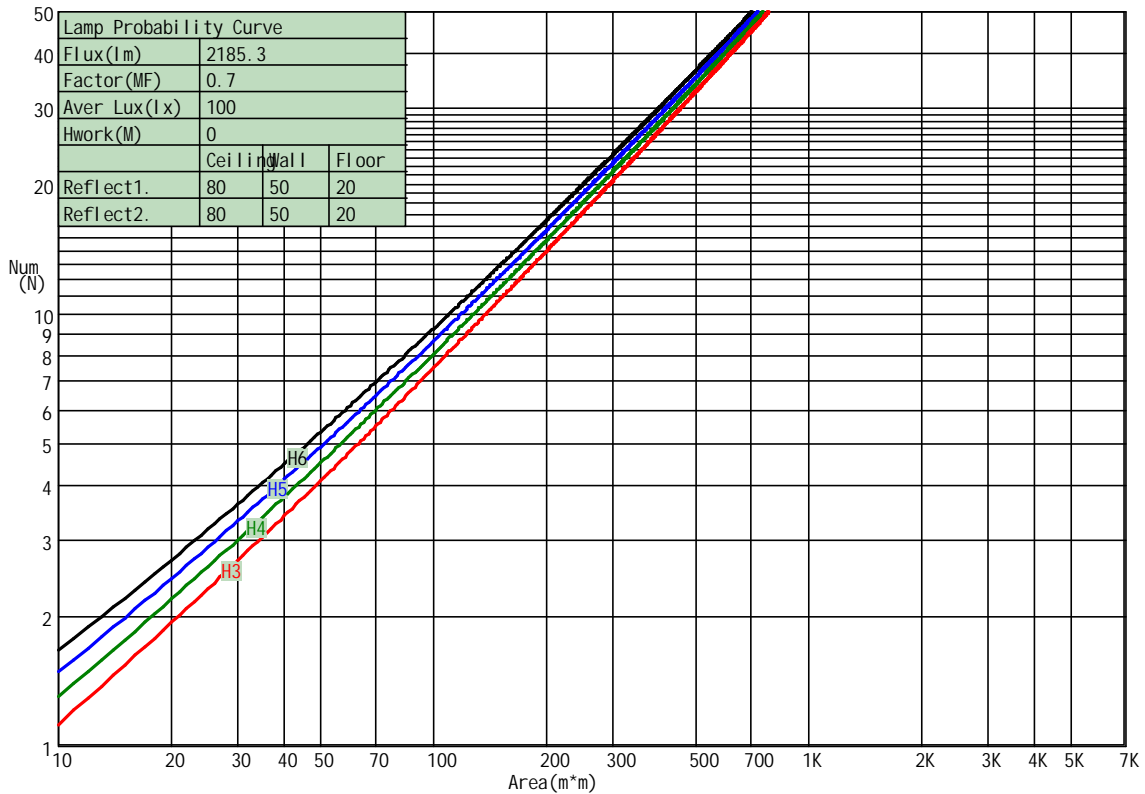
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	Lamp Type:	Weight(kg):
Lamp ID:	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LP-DL24MF01-YB-C	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	52	37	28	50	36	27	47	35	27
0.80	57	40	29	54	39	29	50	37	28
1.00	60	42	31	57	41	30	53	39	29
1.25	63	45	31	60	43	31	54	40	29
1.50	65	46	32	61	44	31	55	41	29
2.00	68	48	33	64	46	32	57	42	30
2.50	69	50	33	65	47	32	58	42	30
3.00	70	50	34	66	48	32	58	43	29
4.00	72	52	34	67	49	33	59	43	29
5.00	73	53	34	68	49	33	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	1.02	0.98	0.94	1	0.96	0.92	0.96	0.92	0.89	0.92	0.89	0.86	0.88	0.86	0.84
2	0.89	0.82	0.75	0.87	0.8	0.75	0.83	0.78	0.73	0.8	0.75	0.71	0.77	0.73	0.69
3	0.78	0.69	0.62	0.76	0.68	0.62	0.73	0.66	0.61	0.7	0.64	0.6	0.68	0.63	0.59
4	0.69	0.6	0.53	0.67	0.59	0.52	0.65	0.57	0.52	0.62	0.56	0.51	0.6	0.55	0.5
5	0.61	0.52	0.45	0.6	0.51	0.45	0.58	0.5	0.44	0.56	0.49	0.44	0.54	0.48	0.43
6	0.55	0.46	0.39	0.54	0.46	0.39	0.52	0.45	0.39	0.51	0.44	0.38	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.39	0.34
8	0.46	0.37	0.31	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.35	0.3	0.41	0.35	0.3
9	0.42	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.27	0.38	0.32	0.27
10	0.39	0.31	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.3	0.25	0.35	0.29	0.25

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: 2023-10-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LPDL-24MFC1-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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	0.34	0.19	0.06	0.33	0.19	0.06	0.32	0.18	0.06	0.3	0.18	0.06	0.29	0.17	0.05
2	0.31	0.17	0.05	0.3	0.17	0.05	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05
3	0.28	0.15	0.04	0.28	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.25	0.14	0.04
4	0.26	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.23	0.12	0.04
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
9	0.18	0.09	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	0.17	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

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	0.05	0.02	0.02	0.01
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	0.17	0.11	0.07	0.14	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	0.09	0.06	0.03	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	0.09	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	0.12	0.06	0.02	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): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2022-4-23

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.4lm		
Lamp Name: LPDL-24MFC1-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-24A-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	747	736	725	722	753	734	724	713	0-5	17.5	17.5
10	734	726	715	716	746	723	713	698	5-10	52	69.5
15	714	709	698	702	731	705	696	677	10-15	84.5	154
20	688	686	675	681	710	680	672	650	15-20	114	268
25	656	656	646	655	682	650	643	618	20-25	140	408
30	619	621	611	623	649	615	612	582	25-30	160	568
35	577	582	573	587	611	575	574	541	30-35	176	744
40	532	538	530	546	569	532	533	497	35-40	185	929
45	483	491	483	502	523	485	488	450	40-45	189	1119
50	432	441	434	454	474	436	444	401	45-50	187	1306
55	379	389	358	405	427	385	398	351	50-55	180	1486
60	324	336	257	353	375	332	347	299	55-60	165	1651
65	270	282	167	301	321	279	296	247	60-65	145	1796
70	215	228	131	248	267	226	244	195	65-70	124	1920
75	161	175	102	196	212	173	193	145	70-75	102	2021
80	110	123	71.9	145	159	123	143	96.3	75-80	77.8	2099
85	62.6	74.8	43.9	96.4	108	74.3	95.6	59.6	80-85	53.5	2153
90	41.4	39.7	29	51.4	60.2	57.3	52.2	45.4	85-90	32.7	2185
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: 2022-4-23

Remark:

Measured Para U: 217.4V I: 170.4mA P: 24.30W PF: 0.656 Test LM: 2381.41m		
Lamp Name: LPDL-24MFC1-Y	Lamp Type:	Weight (kg):
Lamp ID:	Lamp Spec: LPDL-24A-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	747	743	737	732	727	724	723	725	740	753	745	736	731	726	721	716	717	732
10.0	734	731	727	723	717	715	715	719	733	746	736	725	720	716	710	703	702	719
15.0	714	712	710	706	701	699	701	705	718	731	719	708	702	698	692	683	681	698
20.0	688	687	686	682	678	677	679	684	697	710	697	683	678	674	667	658	654	671
25.0	656	656	656	653	648	648	652	658	670	682	668	653	648	645	638	626	622	639
30.0	619	620	621	618	614	614	619	626	638	649	634	618	614	613	605	592	586	603
35.0	577	579	581	579	575	576	582	590	601	611	595	579	575	574	567	552	545	561
40.0	532	534	537	535	532	534	541	549	559	569	552	536	532	532	525	509	501	516
45.0	483	486	490	488	485	487	496	504	514	523	506	489	486	487	480	463	454	469
50.0	432	436	440	438	435	438	448	457	465	474	457	440	438	442	434	415	404	418
55.0	379	383	388	379	365	368	390	407	418	427	409	390	389	395	388	366	354	366
60.0	324	329	334	310	274	278	322	356	365	375	356	337	337	344	337	315	302	313
65.0	270	275	281	244	192	196	257	303	312	321	303	284	285	292	285	263	250	260
70.0	215	221	227	196	153	157	210	250	259	267	249	230	232	240	233	211	198	206
75.0	161	167	174	151	118	122	165	198	205	212	195	178	180	189	183	161	147	154
80.0	110	116	122	107	83.2	87.9	121	147	153	159	143	127	129	139	133	112	97.8	104
85.0	62.6	67.9	73.5	64.6	50.6	55.4	79.1	97.7	103	108	93.4	78	81.3	90.9	87.7	71.4	59.9	61.3
90.0	41.4	40.6	39.8	36.2	31.3	33.9	44	52.3	56.3	60.2	58.9	57.6	55.7	53.3	50.7	47.6	44.9	43.1
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: zxg

Date: 2022-4-23

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0