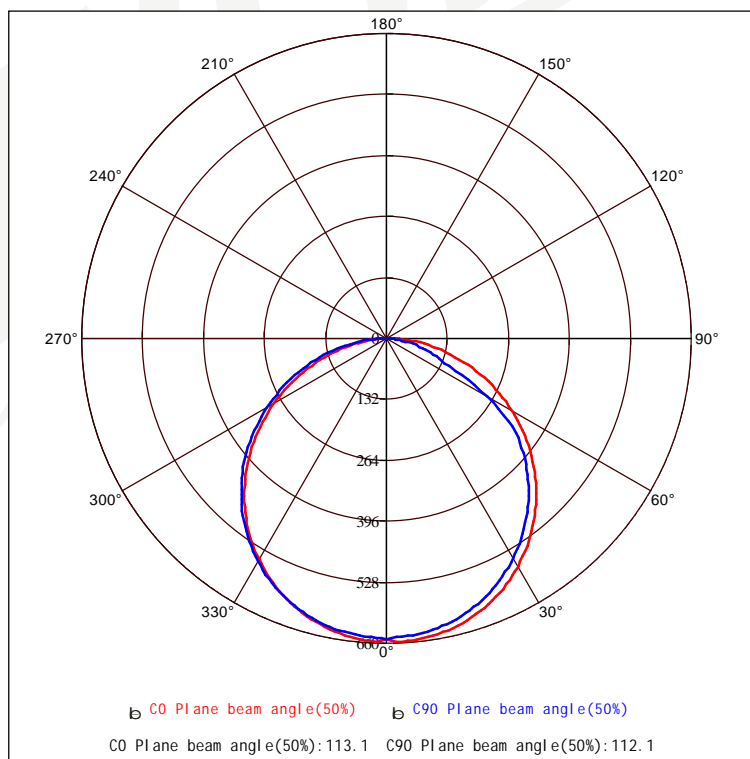


LED DOWN LIGHT

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm						
Lamp Name: LPDL-24A-Y		Lamp Type:		Weight(kg):		
Lamp ID:		Lamp Spec: LPDL-24A-Y		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-24A-Y		Peak Value(cd)	657.7	Efficiency(lm/w)	84.9
Nominal P(w)	1.0		Position	0.0, 1.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	1859.840	Down(C0-C180)	50.1
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)	49.9

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

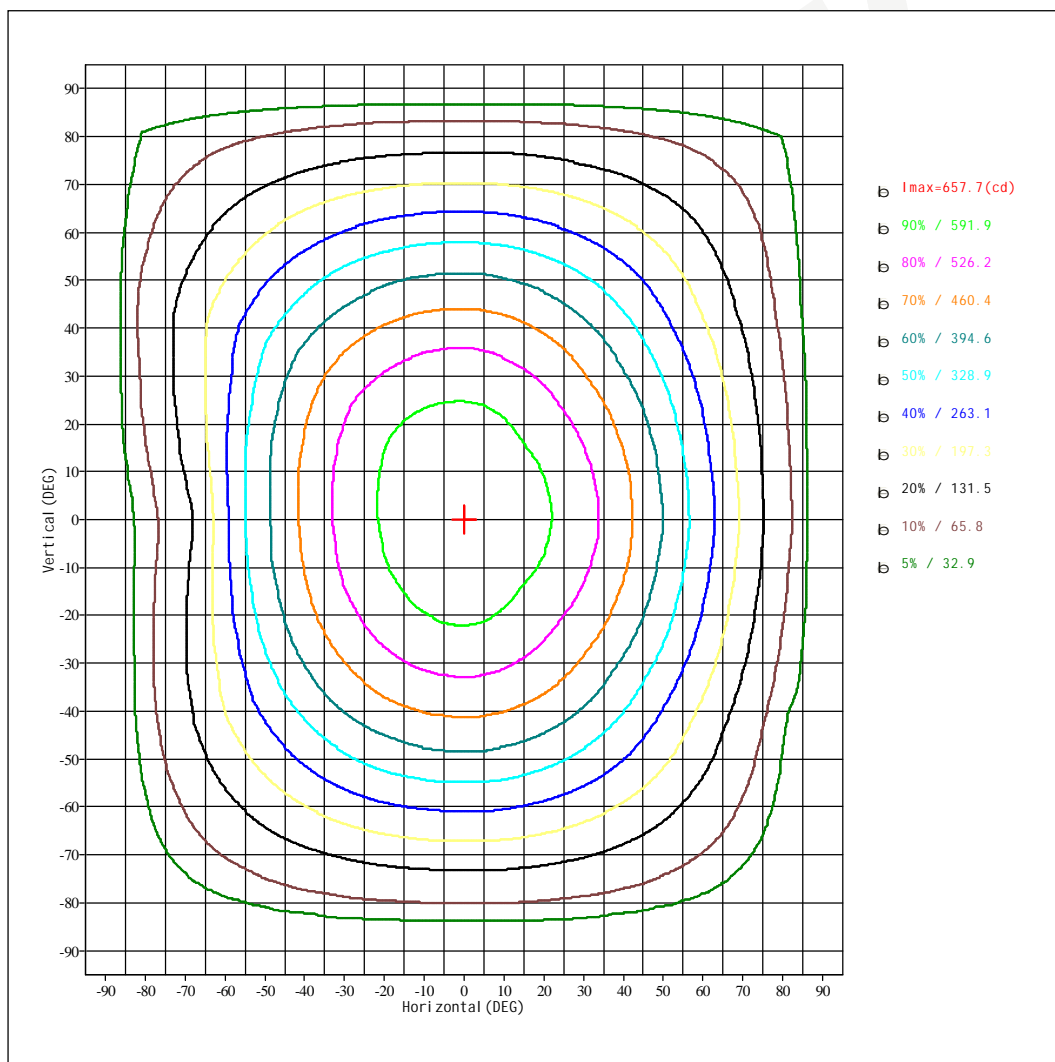
Humidity(%): 60

Date: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.841m		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

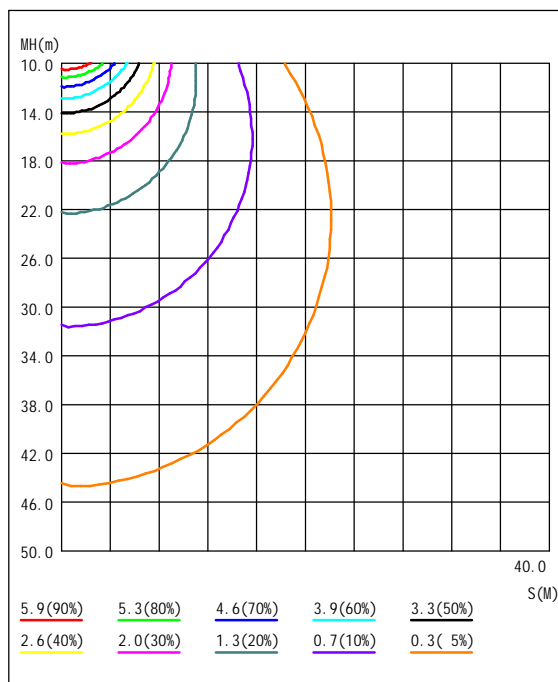
Humi di ty(%): 60

Date: 2021-4-1

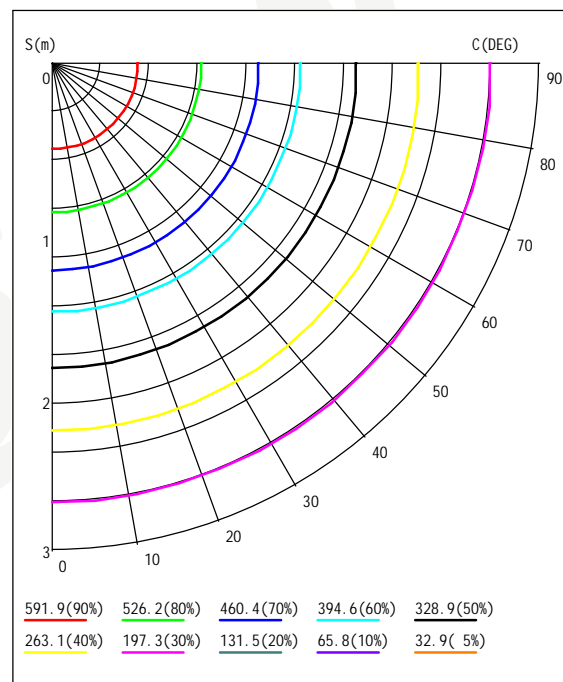
Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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): 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: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-Y	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

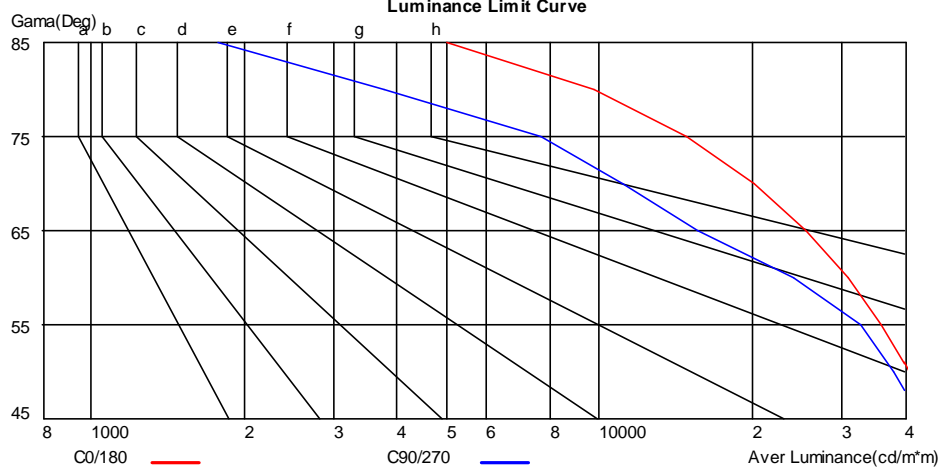
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	45453.8	40915.0	36071.0	30945.7	25629.5	20213.3	14863.7	9766.5	5002.3
C90	42851.8	38148.5	32725.0	24198.5	15686.5	11094.3	7691.8	3763.3	1780.5

Glare

Glare	Class	Illuminance(x)							
		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

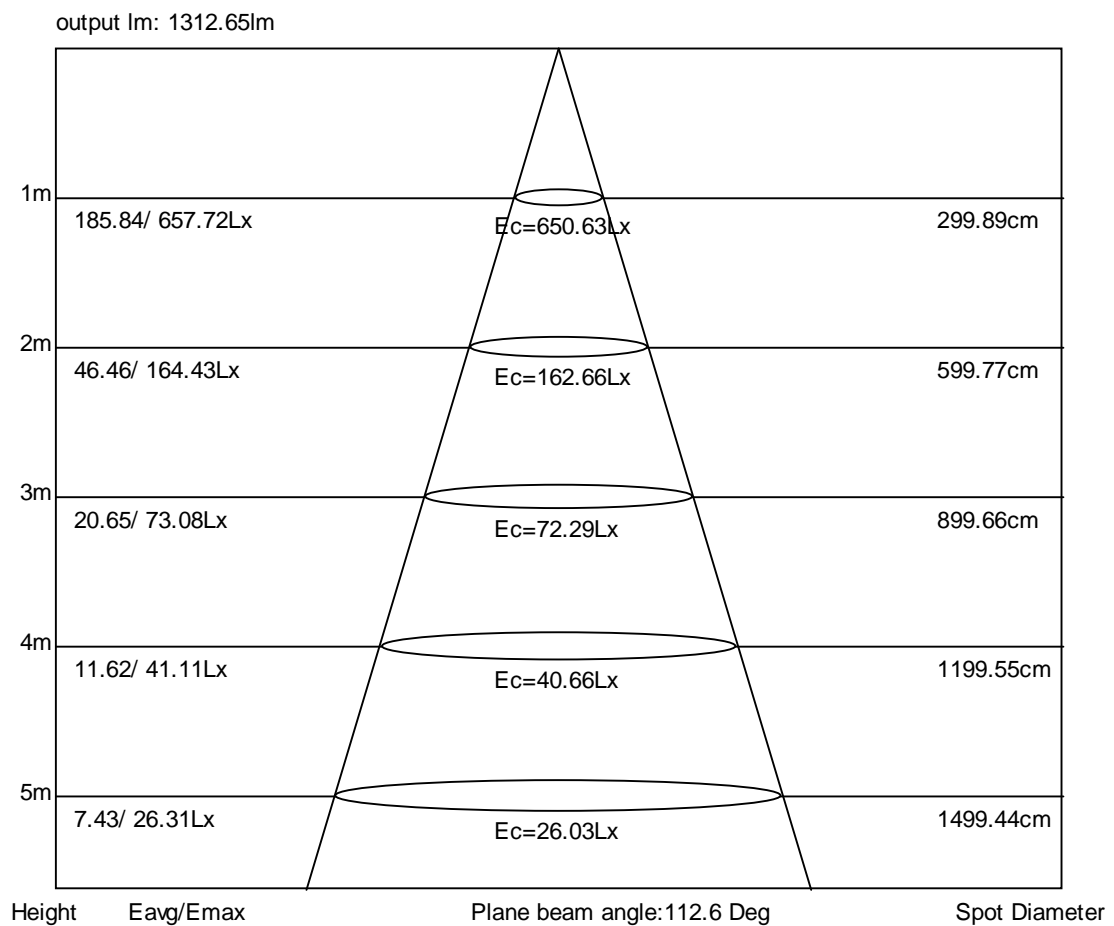
Humi di ty(%): 60

Date: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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): 30

Tester: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

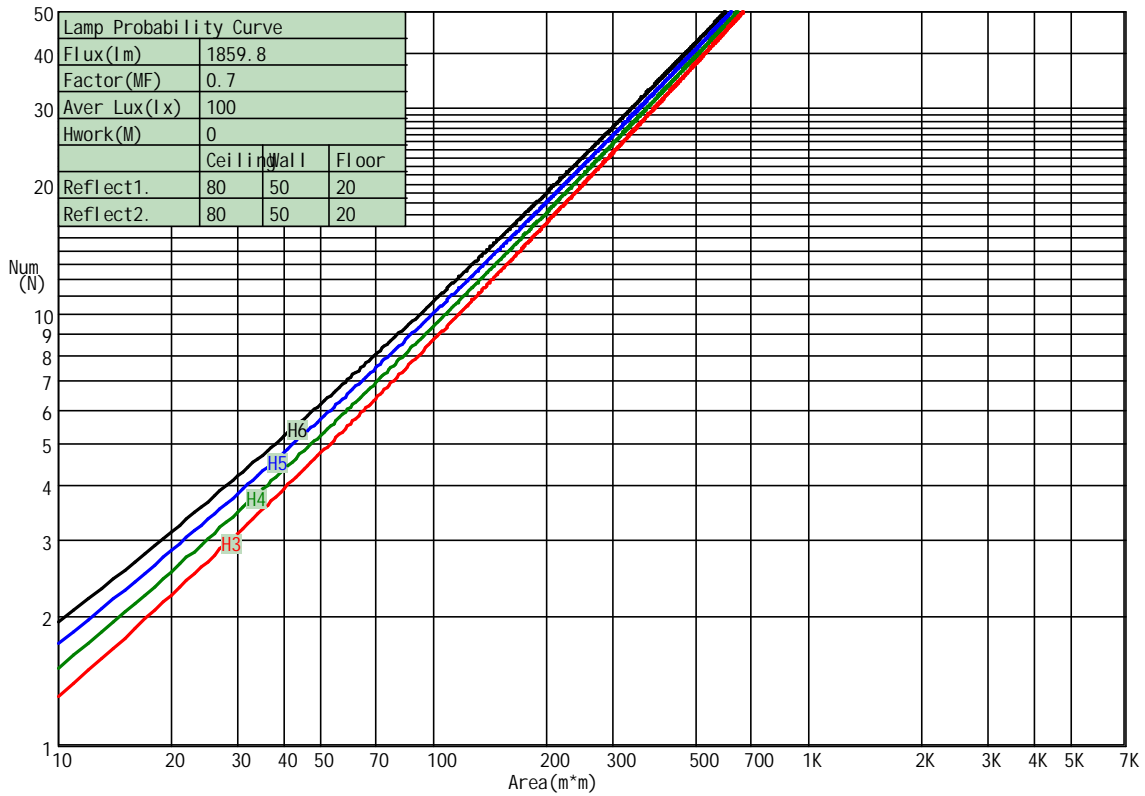
Humi di ty(%): 60

Date: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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): 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: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-24A-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	52	38	29	49	36	28
0.80	58	41	31	56	40	30	52	39	29
1.00	61	44	32	58	43	31	54	40	30
1.25	64	46	33	61	44	32	55	41	31
1.50	66	47	34	62	46	33	56	42	31
2.00	68	50	35	65	47	34	58	43	31
2.50	70	50	35	66	48	33	58	43	31
3.00	71	51	35	67	49	33	59	44	30
4.00	72	52	35	68	49	33	59	44	30
5.00	73	53	35	68	50	33	59	44	30

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	0.99	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.9	0.88	0.86
2	0.9	0.84	0.78	0.89	0.82	0.77	0.85	0.8	0.75	0.82	0.77	0.73	0.79	0.75	0.72
3	0.79	0.71	0.65	0.78	0.7	0.64	0.75	0.68	0.63	0.72	0.66	0.62	0.69	0.65	0.61
4	0.7	0.61	0.55	0.69	0.61	0.54	0.66	0.59	0.53	0.64	0.58	0.53	0.62	0.56	0.52
5	0.63	0.54	0.47	0.62	0.53	0.47	0.59	0.52	0.46	0.57	0.51	0.46	0.56	0.5	0.45
6	0.56	0.47	0.41	0.55	0.47	0.41	0.54	0.46	0.4	0.52	0.45	0.4	0.5	0.44	0.4
7	0.51	0.42	0.36	0.5	0.42	0.36	0.49	0.41	0.36	0.47	0.41	0.35	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	0.43	0.37	0.32	0.42	0.36	0.32
9	0.43	0.35	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.4	0.33	0.29	0.39	0.33	0.28
10	0.4	0.32	0.26	0.39	0.31	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): 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 dity(%): 60

Date: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-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	0.31	0.18	0.06	0.3	0.17	0.06	0.29	0.17	0.05	0.28	0.16	0.05	0.27	0.15	0.05
2	0.29	0.16	0.05	0.29	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05
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	0.24	0.13	0.04
4	0.25	0.13	0.04	0.24	0.13	0.04	0.24	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	0.2	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	0.03	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): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2021-4-1

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.841m		
Lamp Name: LPDL-24A-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	656	651	645	643	653	645	646	643	0-5	15.5	15.5
10	649	645	635	634	643	633	638	635	5-10	46	61.5
15	636	634	621	620	628	616	625	621	10-15	75	137
20	618	618	601	601	607	594	606	601	15-20	101	238
25	595	596	576	576	580	566	582	577	20-25	124	362
30	567	569	546	546	549	533	553	548	25-30	143	506
35	534	537	511	511	513	503	520	513	30-35	158	663
40	496	501	472	472	472	462	482	475	35-40	166	830
45	455	460	429	428	428	417	439	432	40-45	169	999
50	409	416	381	381	380	368	393	386	45-50	167	1166
55	361	368	327	331	329	317	344	337	50-55	158	1324
60	309	318	242	279	275	263	293	284	55-60	144	1468
65	256	265	157	225	221	208	240	231	60-65	124	1592
70	202	212	111	170	167	154	187	177	65-70	100	1692
75	149	159	76.9	118	115	103	134	125	70-75	77	1769
80	97.7	107	37.6	67.9	65.8	54.4	85.2	76	75-80	52.5	1821
85	50	59.7	17.8	25.4	21.9	14.3	40.9	32.6	80-85	28.6	1850
90	18.2	17.4	3.21	3.4	6.03	5.64	5.45	11.1	85-90	9.72	1860
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 dity(%): 60

Date: 2021-4-1

Remark:

Measured Para U: 217.4V I: 167.0mA P: 21.90W PF: 0.602 Test LM: 1859.84lm		
Lamp Name: LPDL-24A-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	656	654	652	649	646	644	643	644	649	653	650	646	645	646	645	644	644	650
10.0	649	647	646	642	638	635	635	635	639	643	639	634	635	637	637	636	636	643
15.0	636	635	634	630	624	621	620	621	624	628	623	617	619	623	624	622	622	629
20.0	618	618	618	612	605	601	601	601	604	607	601	595	598	604	605	603	603	611
25.0	595	595	596	589	580	576	576	576	578	580	574	568	571	578	581	579	579	587
30.0	567	568	569	561	551	546	546	546	548	549	542	535	540	549	552	549	550	559
35.0	534	535	537	529	517	511	511	511	512	513	509	504	509	516	518	516	516	525
40.0	496	498	500	491	478	472	472	472	472	472	468	463	469	478	480	477	477	487
45.0	455	457	459	450	435	428	428	428	428	428	423	418	424	434	438	434	435	445
50.0	409	412	415	404	389	381	381	381	380	380	375	369	376	388	392	388	388	399
55.0	361	364	367	355	336	328	330	331	330	329	323	318	326	338	343	339	339	350
60.0	309	313	317	293	259	250	267	278	277	275	270	264	273	286	291	287	287	299
65.0	256	260	264	230	181	172	202	224	222	221	215	210	219	233	238	234	234	245
70.0	202	206	211	179	133	124	151	170	168	167	161	156	165	180	185	180	180	191
75.0	149	153	158	132	94.8	85.9	104	118	116	115	109	104	113	127	132	128	127	138
80.0	97.7	102	106	84.4	52.9	44.2	58	67.7	66.7	65.8	60.8	55.6	64.5	78.5	83.2	79	78.4	88.2
85.0	50	54.3	58.7	46	27	19.5	22.9	25.1	23.4	21.9	18.5	15.1	23	35.1	39.1	35.3	34.5	42.4
90.0	18.2	17.8	17.5	12.7	6.31	3.25	3.34	3.69	4.88	6.03	5.86	5.69	5.58	5.49	6.69	9.24	11.9	15.1
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: zyg

Date: 2021-4-1

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0