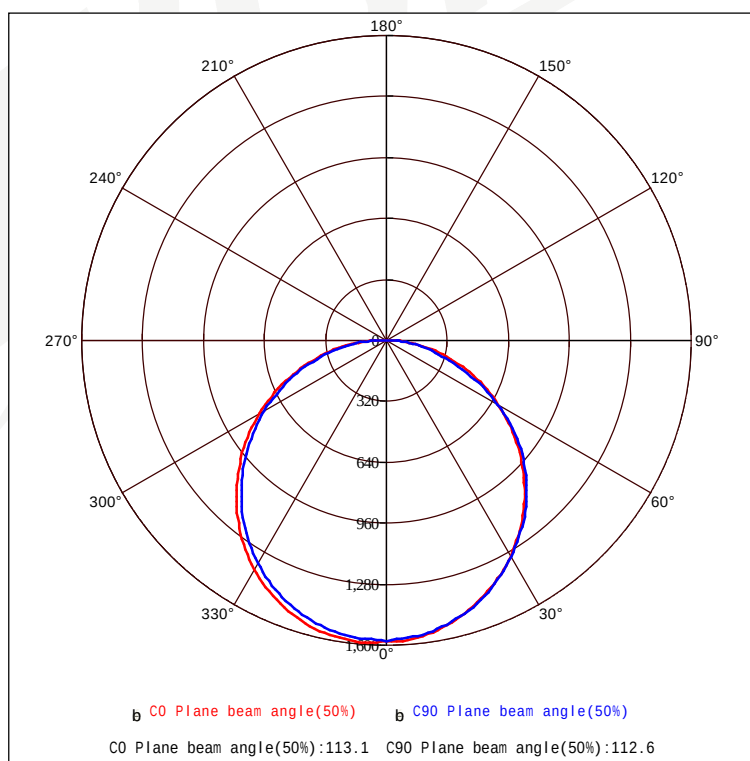


LED DOWN LIGHT

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm						
Lamp Name: LPDL-50A-Y			Lamp Type:		Weight(kg):	
Lamp ID:			Lamp Spec: LPDL-50A-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-50A-Y		Peak Value(cd)	1590.3	Efficiency(lm/w)	101.3
Nominal P(w)		1.0	Position	180.0,3.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	4597.585	Down(C0-C180)	50.3
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)	49.7

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxc

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

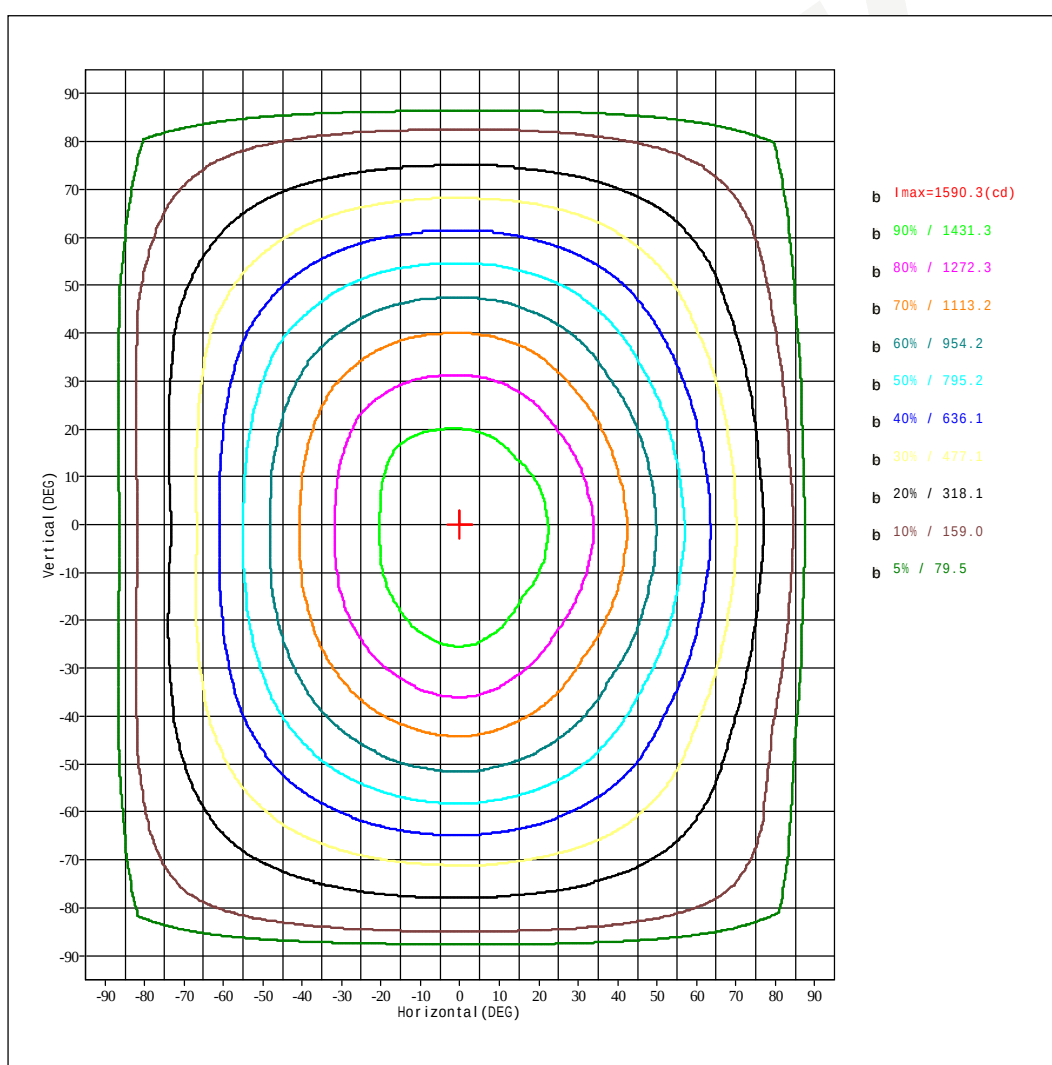
Humidity(%): 60

Date: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

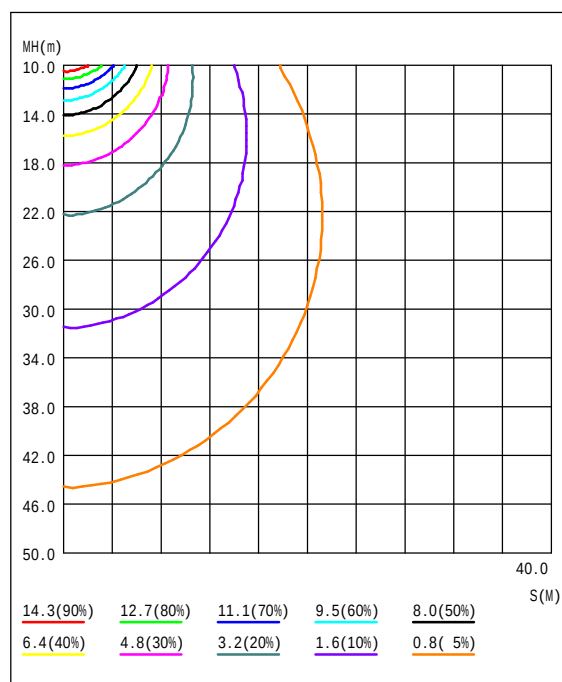
Humidity(%): 60

Date: 2021-1-18

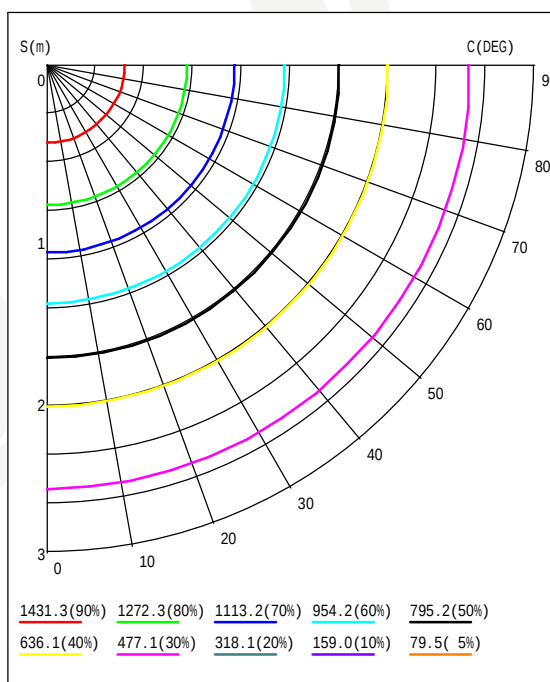
Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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: 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: 2021-1-18

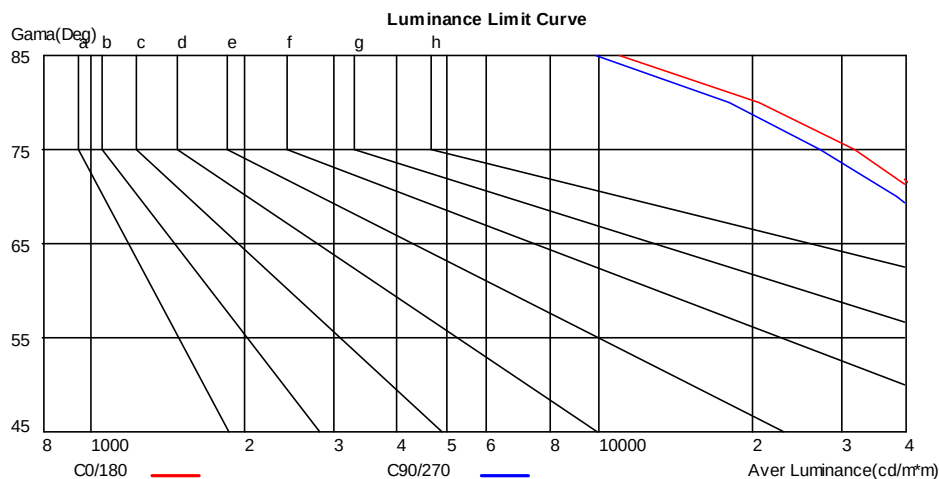
Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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	101081.5	90103.3	78676.8	66942.5	55237.0	43493.3	31907.0	20668.8	10993.3
C90	102677.0	91777.5	79308.8	65921.8	52382.0	38487.0	27330.0	18085.8	9885.5

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

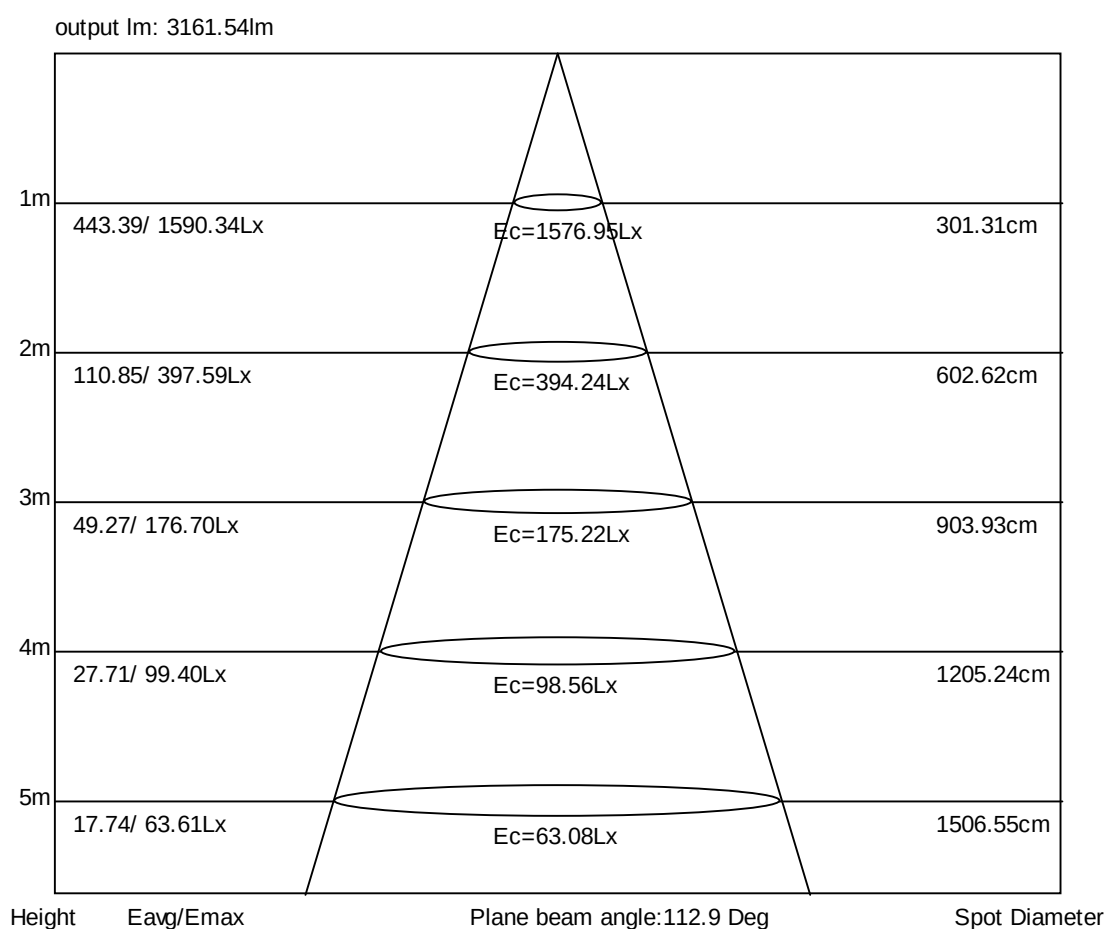
Humidity(%): 60

Date: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

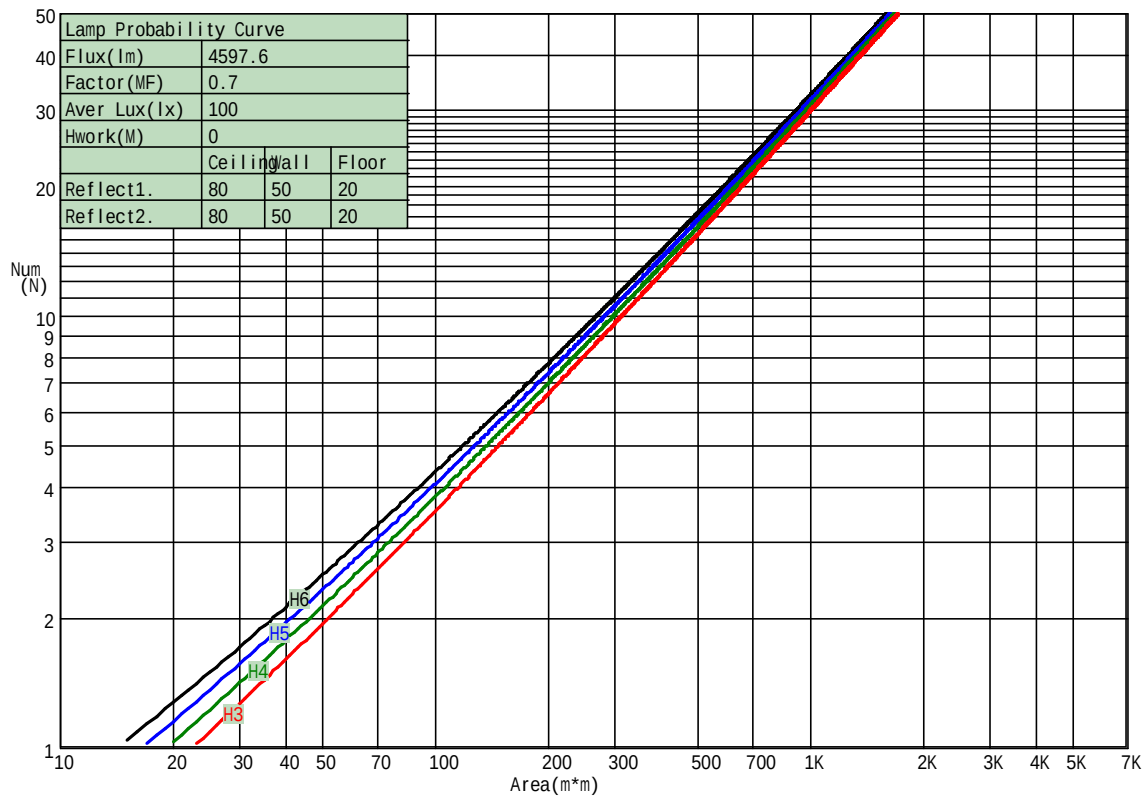
Humidity(%): 60

Date: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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	52	37	28	50	36	27	47	35	27
0.80	57	40	29	54	39	29	50	37	28
1.00	60	42	30	57	41	30	52	39	29
1.25	63	45	31	60	43	30	54	40	29
1.50	65	46	32	61	44	31	55	41	29
2.00	67	48	33	64	46	32	57	42	30
2.50	69	49	33	65	47	32	57	42	29
3.00	70	50	33	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	1.03	0.99	0.94	1.01	0.97	0.93	0.96	0.93	0.9	0.93	0.9	0.87	0.89	0.87	0.85
2	0.89	0.82	0.76	0.88	0.81	0.76	0.84	0.78	0.74	0.81	0.76	0.72	0.78	0.74	0.7
3	0.78	0.7	0.63	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.6	0.68	0.64	0.59
4	0.69	0.6	0.53	0.68	0.6	0.53	0.65	0.58	0.52	0.63	0.57	0.52	0.61	0.55	0.51
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.57	0.5	0.45	0.55	0.49	0.44
6	0.56	0.47	0.4	0.55	0.46	0.4	0.53	0.45	0.4	0.51	0.44	0.39	0.5	0.44	0.39
7	0.5	0.42	0.35	0.5	0.41	0.35	0.48	0.4	0.35	0.47	0.4	0.35	0.45	0.39	0.34
8	0.46	0.37	0.31	0.45	0.37	0.31	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.31
9	0.42	0.34	0.28	0.42	0.34	0.28	0.4	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28
10	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.3	0.25	0.37	0.3	0.25	0.36	0.3	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

Humidity(%): 60

Date: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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	0.33	0.19	0.06	0.32	0.18	0.06	0.31	0.18	0.06	0.29	0.17	0.05	0.28	0.16	0.05
2	0.3	0.16	0.05	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05
3	0.28	0.15	0.04	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04
4	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	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	0.12	0.03	0.21	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.2	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	0.18	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	0.03
9	0.18	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 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	0.18	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	0.04	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	0.02	0.08	0.04	0.02	0.04	0.03	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)

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: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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	1571	1574	1561	1565	1589	1572	1569	1555	0-5	37.6	37.6
10	1542	1554	1535	1548	1576	1549	1552	1527	5-10	112	149
15	1497	1519	1495	1516	1548	1510	1519	1487	10-15	181	331
20	1440	1470	1443	1471	1505	1458	1473	1434	15-20	245	576
25	1373	1408	1377	1411	1449	1392	1413	1369	20-25	300	876
30	1297	1335	1301	1340	1380	1316	1342	1291	25-30	345	1220
35	1213	1251	1218	1259	1298	1229	1261	1205	30-35	378	1598
40	1115	1156	1129	1167	1206	1130	1168	1105	35-40	398	1997
45	1011	1053	1027	1065	1105	1023	1066	1001	40-45	405	2402
50	901	944	918	956	994	911	958	891	45-50	399	2802
55	787	831	793	844	879	793	844	777	50-55	381	3182
60	669	714	659	726	758	671	726	659	55-60	350	3533
65	552	596	524	607	635	548	607	541	60-65	310	3842
70	435	477	385	484	510	425	486	423	65-70	260	4103
75	319	359	273	364	387	305	367	307	70-75	205	4308
80	207	245	181	247	267	190	252	196	75-80	149	4457
85	110	140	98.9	140	157	94.2	146	101	80-85	93.3	4550
90	55.6	57.4	53.6	56	66.6	66.7	62.1	57.5	85-90	47.2	4598
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: 2021-1-18

Remark:

Measured Para U: 216.4V I: 351.0mA P: 45.40W PF: 0.598 Test LM: 4597.58lm		
Lamp Name: LPDL-50A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-50A-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	1571	1572	1574	1570	1564	1562	1564	1568	1579	1589	1582	1574	1571	1570	1566	1560	1557	1564
10.0	1542	1547	1552	1548	1539	1538	1544	1552	1564	1576	1565	1552	1550	1551	1546	1535	1529	1535
15.0	1497	1506	1516	1511	1500	1500	1509	1520	1534	1548	1531	1514	1513	1517	1512	1497	1488	1492
20.0	1440	1453	1466	1461	1449	1449	1462	1475	1490	1505	1485	1463	1463	1470	1464	1447	1434	1437
25.0	1373	1389	1404	1398	1384	1385	1400	1415	1433	1449	1424	1399	1399	1408	1403	1383	1369	1371
30.0	1297	1313	1331	1324	1309	1310	1328	1345	1363	1380	1352	1323	1325	1336	1331	1307	1291	1294
35.0	1213	1229	1246	1240	1225	1227	1245	1263	1281	1298	1268	1236	1239	1254	1248	1223	1206	1209
40.0	1115	1133	1152	1147	1135	1137	1154	1171	1189	1206	1172	1138	1142	1160	1154	1126	1106	1111
45.0	1011	1029	1048	1044	1032	1035	1052	1069	1087	1105	1069	1032	1037	1056	1052	1022	1002	1006
50.0	901	920	940	936	924	926	944	961	978	994	958	920	926	947	943	913	892	896
55.0	787	806	826	819	801	804	827	848	863	879	841	802	810	833	829	799	778	783
60.0	669	689	709	696	671	674	704	730	744	758	720	681	689	714	712	681	660	665
65.0	552	571	591	572	540	542	579	610	622	635	597	557	567	594	592	562	542	547
70.0	435	453	472	446	405	407	452	487	499	510	473	434	445	473	472	443	424	430
75.0	319	337	355	331	292	293	334	366	377	387	351	314	325	353	354	327	308	314
80.0	207	223	241	224	195	195	225	249	259	267	234	198	210	239	240	214	197	202
85.0	110	123	137	126	108	108	126	142	149	157	129	101	111	135	137	116	102	106
90.0	55.6	56.4	57.2	56.1	54.4	54.1	55.2	57.1	62	66.6	66.7	66.7	65.2	63.1	61.1	59	57.3	56.4
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)

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: 2021-1-18

Remark: