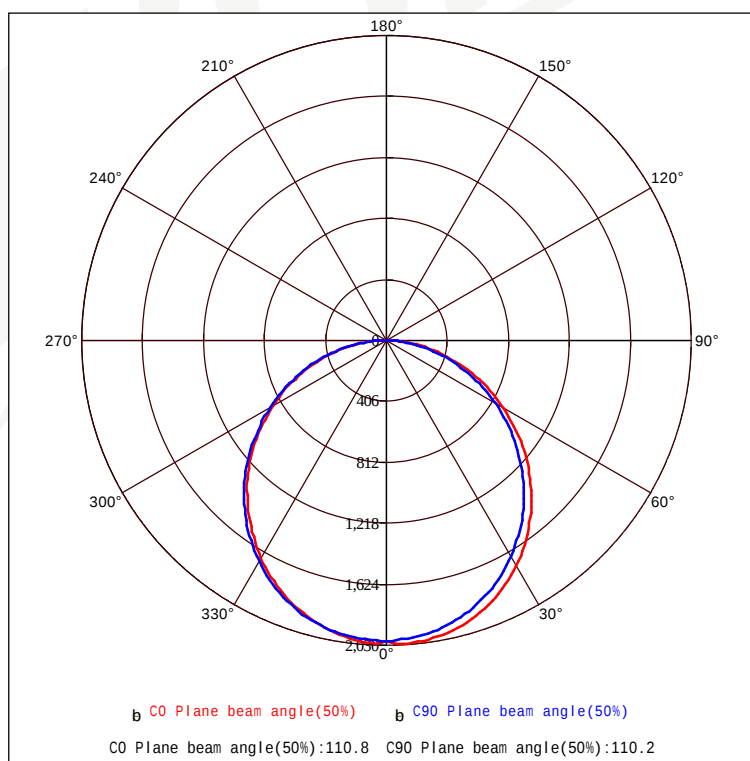


LED DOWN LIGHT

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm						
Lamp Name: LPDL-60A-Y			Lamp Type:		Weight(kg):	
Lamp ID:			Lamp Spec: LPDL-60A-Y		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPDL-60A-Y		Peak Value(cd)	2026.0	Efficiency(lm/w)	96.5
Nominal P(w)		1.0	Position	0.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	5654.882	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

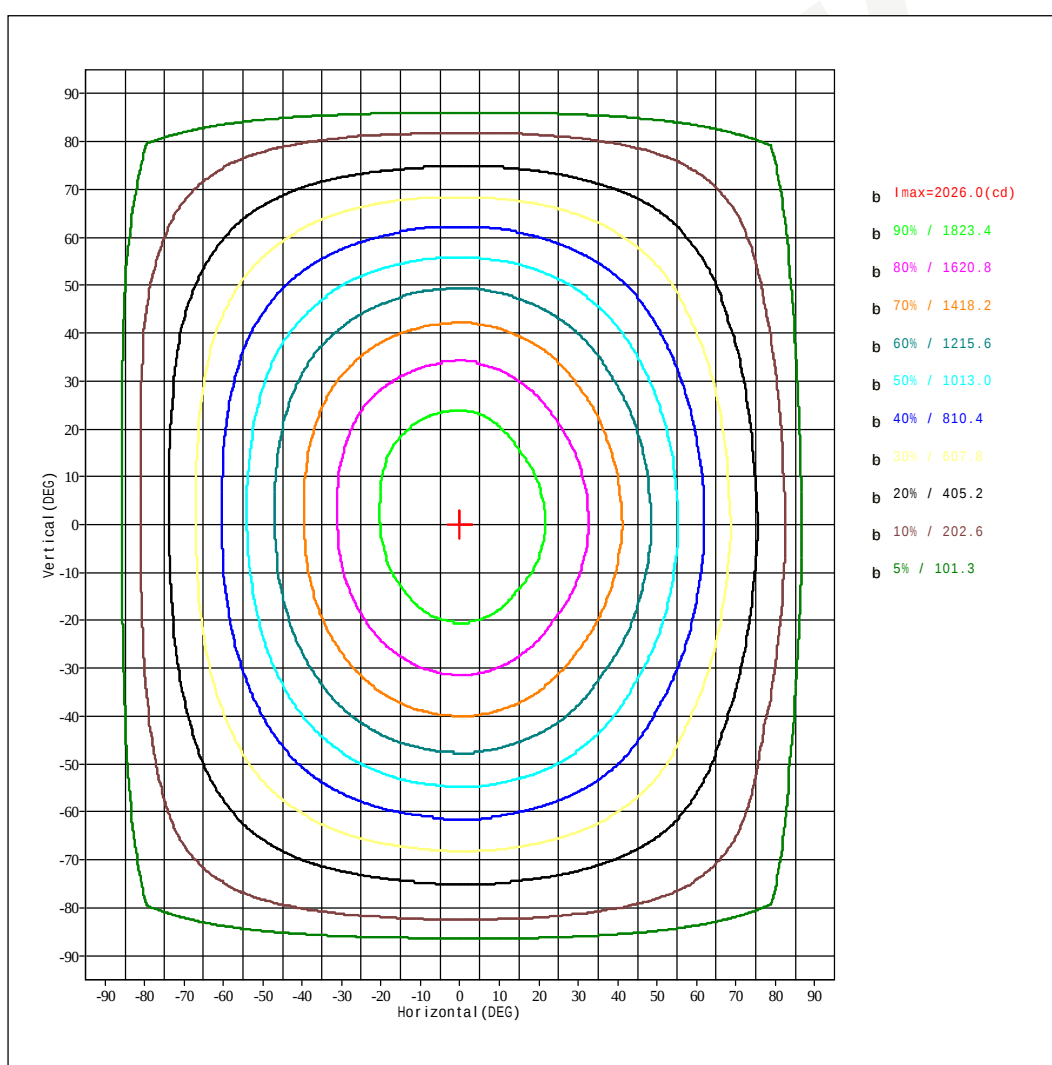
Humidity(%): 60

Date: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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

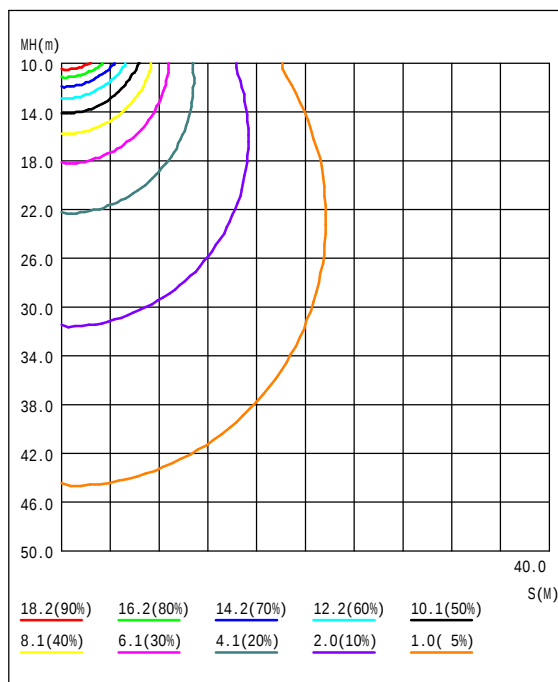
Humidity(%): 60

Date: 2022-3-1

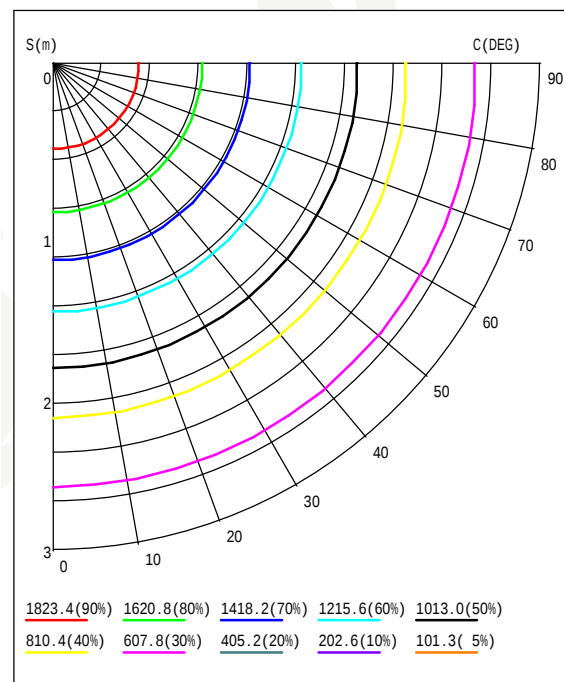
Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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: 2022-3-1

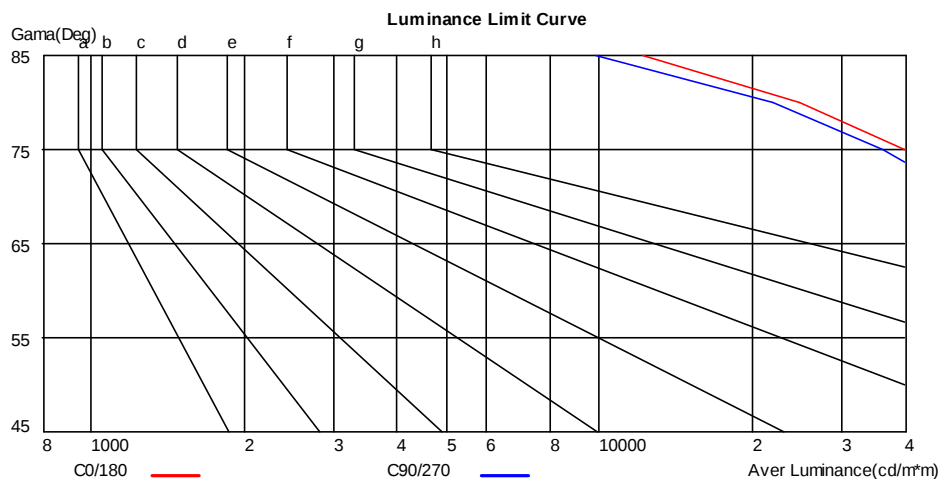
Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-Y	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	134248.0	120491.0	104065.0	88080.8	71946.3	55776.0	39968.3	24771.0	12202.0
C90	127142.2	112727.3	97778.3	82313.8	66794.8	51301.8	36319.3	21992.5	9871.8

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

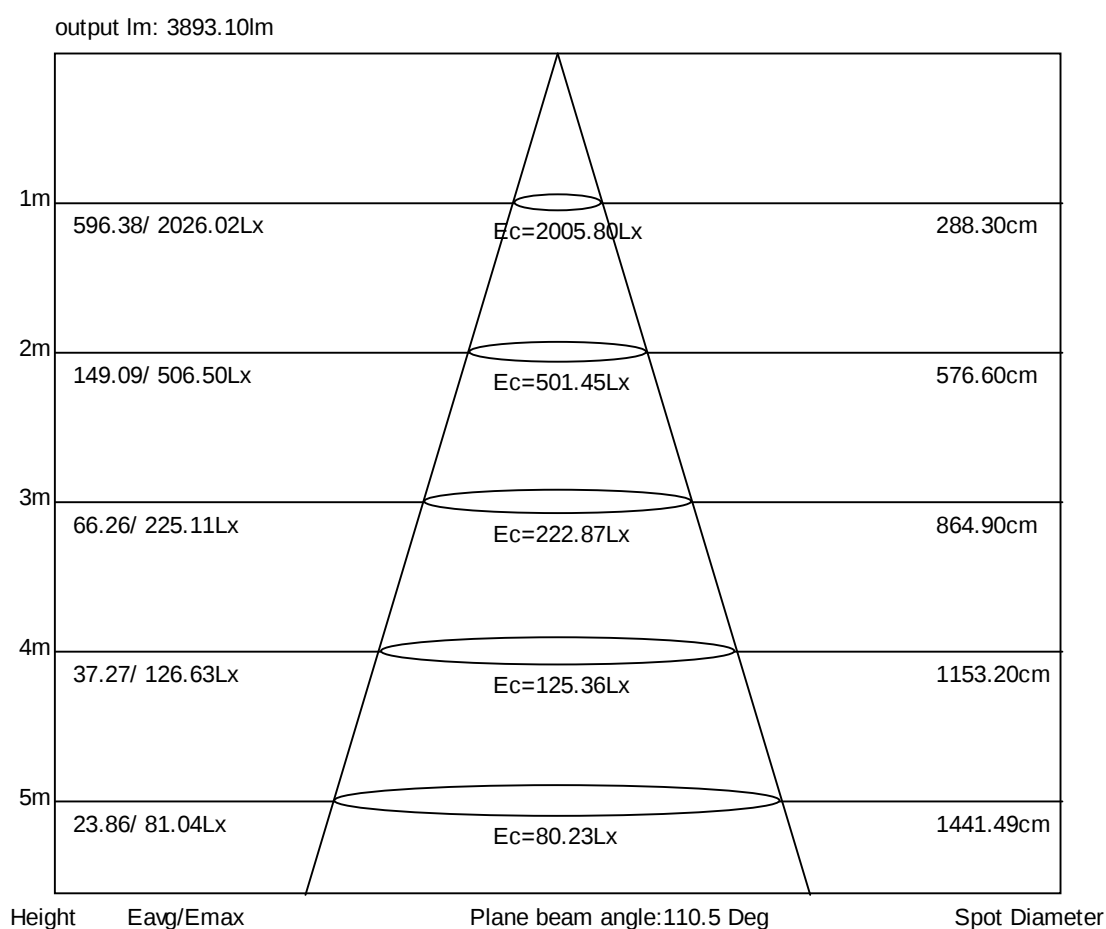
Humidity(%): 60

Date: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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

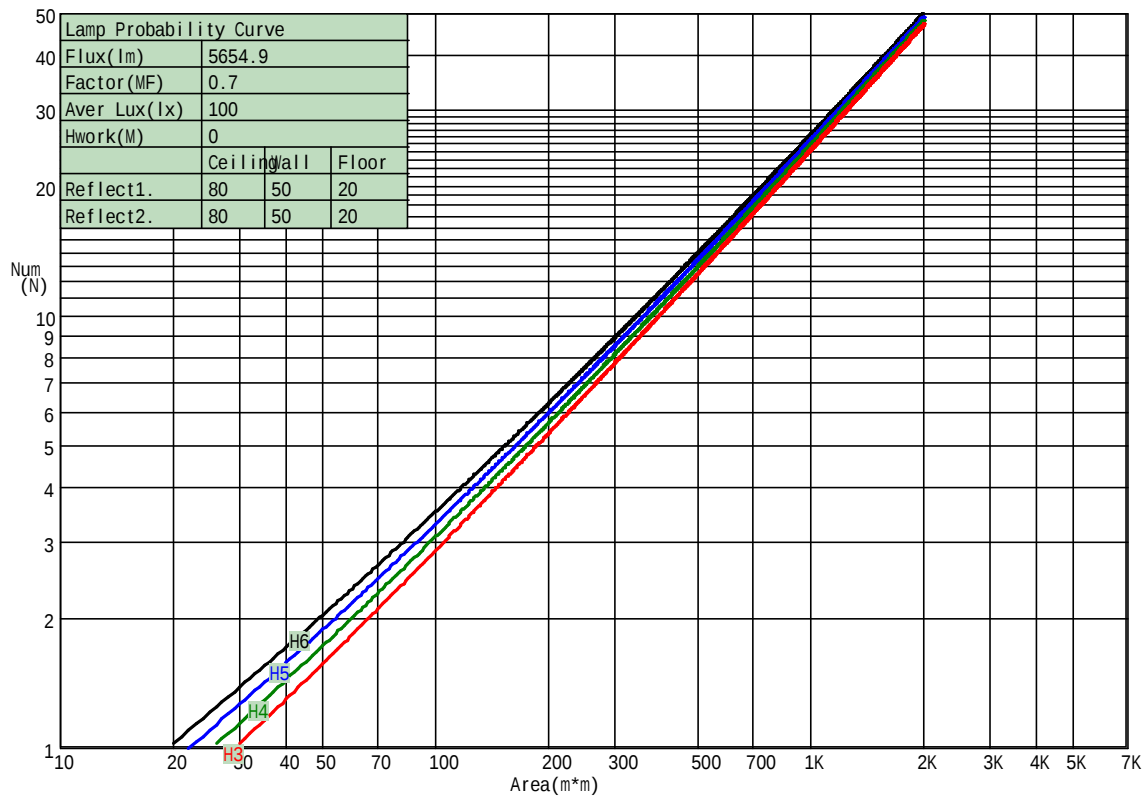
Humidity(%): 60

Date: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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	53	38	29	51	38	29	48	36	28
0.80	57	41	30	55	40	30	51	38	29
1.00	61	43	32	58	42	31	53	40	30
1.25	63	45	32	60	44	32	55	41	30
1.50	65	47	33	62	45	32	56	42	30
2.00	68	49	34	64	47	33	57	43	31
2.50	69	50	34	65	47	33	58	43	30
3.00	70	51	34	66	48	33	58	43	30
4.00	72	52	34	67	49	33	59	43	30
5.00	73	52	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	1.04	0.99	0.95	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.9	0.88	0.89	0.87	0.85
2	0.9	0.83	0.77	0.88	0.82	0.76	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.75	0.71
3	0.79	0.71	0.64	0.78	0.7	0.64	0.75	0.68	0.63	0.72	0.66	0.61	0.69	0.64	0.6
4	0.7	0.61	0.54	0.69	0.6	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	0.61	0.53	0.47	0.59	0.52	0.46	0.57	0.51	0.46	0.55	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	0.4	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	0.31
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

Humidity(%): 60

Date: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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	0.32	0.18	0.06	0.31	0.18	0.06	0.3	0.17	0.05	0.28	0.16	0.05	0.27	0.16	0.05
2	0.29	0.16	0.05	0.29	0.16	0.05	0.28	0.15	0.05	0.27	0.15	0.05	0.26	0.14	0.05
3	0.27	0.14	0.04	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.13	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	0.11	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 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	0.15	0.13	0.12	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	0.16	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)

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: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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	2021	2007	1986	1978	2008	1993	1993	1984	0-5	47.8	47.8
10	2000	1986	1954	1946	1972	1956	1969	1959	5-10	142	190
15	1956	1944	1903	1896	1918	1901	1925	1914	10-15	231	420
20	1897	1885	1836	1827	1848	1827	1863	1851	15-20	311	731
25	1817	1806	1750	1741	1761	1738	1783	1770	20-25	380	1111
30	1721	1710	1649	1639	1661	1635	1688	1673	25-30	436	1547
35	1607	1599	1535	1526	1546	1517	1576	1559	30-35	476	2023
40	1482	1474	1408	1400	1422	1389	1456	1433	35-40	499	2522
45	1342	1342	1271	1265	1295	1252	1323	1298	40-45	506	3027
50	1205	1197	1127	1123	1155	1106	1180	1152	45-50	496	3523
55	1041	1046	978	975	1008	955	1032	999	50-55	469	3992
60	881	890	823	824	857	801	879	842	55-60	428	4421
65	719	732	668	672	705	647	724	684	60-65	375	4796
70	558	575	513	521	554	494	570	526	65-70	312	5108
75	400	419	363	374	406	346	420	372	70-75	242	5349
80	248	271	220	234	264	205	274	226	75-80	168	5518
85	122	135	98.7	113	136	89	140	100	80-85	96.2	5614
90	51.3	48.1	46.7	41.5	51.7	51	52.6	53.3	85-90	41	5655
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: 2022-3-1

Remark:

Measured Para U: 217.9V I: 445.0mA P: 58.60W PF: 0.604 Test LM: 5654.88lm		
Lamp Name: LPDL-60A-Y	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPDL-60A-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	2021	2015	2009	2000	1991	1985	1981	1982	1995	2008	2001	1995	1993	1993	1991	1987	1988	2005
10.0	2000	1994	1988	1975	1961	1952	1948	1948	1960	1972	1965	1958	1960	1966	1967	1962	1963	1982
15.0	1956	1951	1945	1930	1912	1902	1898	1898	1908	1918	1911	1903	1909	1920	1923	1918	1919	1938
20.0	1897	1892	1886	1869	1847	1834	1830	1829	1839	1848	1839	1829	1839	1855	1860	1855	1856	1877
25.0	1817	1812	1807	1787	1762	1748	1744	1743	1752	1761	1751	1741	1753	1773	1780	1774	1775	1796
30.0	1721	1716	1711	1690	1663	1647	1643	1642	1652	1661	1650	1638	1653	1676	1684	1678	1678	1700
35.0	1607	1603	1600	1578	1549	1533	1529	1529	1538	1546	1534	1520	1536	1563	1572	1565	1564	1586
40.0	1482	1478	1475	1452	1422	1406	1403	1403	1413	1422	1408	1393	1411	1441	1451	1440	1438	1460
45.0	1342	1342	1342	1319	1287	1270	1267	1268	1282	1295	1276	1256	1275	1307	1317	1306	1303	1323
50.0	1205	1201	1197	1174	1142	1126	1124	1126	1141	1155	1133	1111	1130	1163	1174	1161	1158	1182
55.0	1041	1043	1045	1023	993	977	976	979	994	1008	985	961	980	1015	1025	1010	1004	1023
60.0	881	885	889	868	838	823	824	827	842	857	833	807	827	862	871	854	846	864
65.0	719	725	731	711	682	669	671	676	691	705	679	653	672	707	715	697	688	704
70.0	558	565	573	554	527	515	518	525	539	554	527	500	519	554	561	540	529	544
75.0	400	408	417	401	375	366	370	377	392	406	380	353	371	404	410	388	375	388
80.0	248	258	268	254	231	223	230	238	251	264	238	212	228	259	263	241	228	238
85.0	122	128	134	123	107	102	108	115	126	136	115	94.1	106	129	132	113	103	112
90.0	51.3	49.9	48.5	47.6	47	45.5	43.2	42.6	47.2	51.7	51.4	51.1	51.5	52.2	52.7	53.1	53.1	52.2
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: 2022-3-1

Remark: