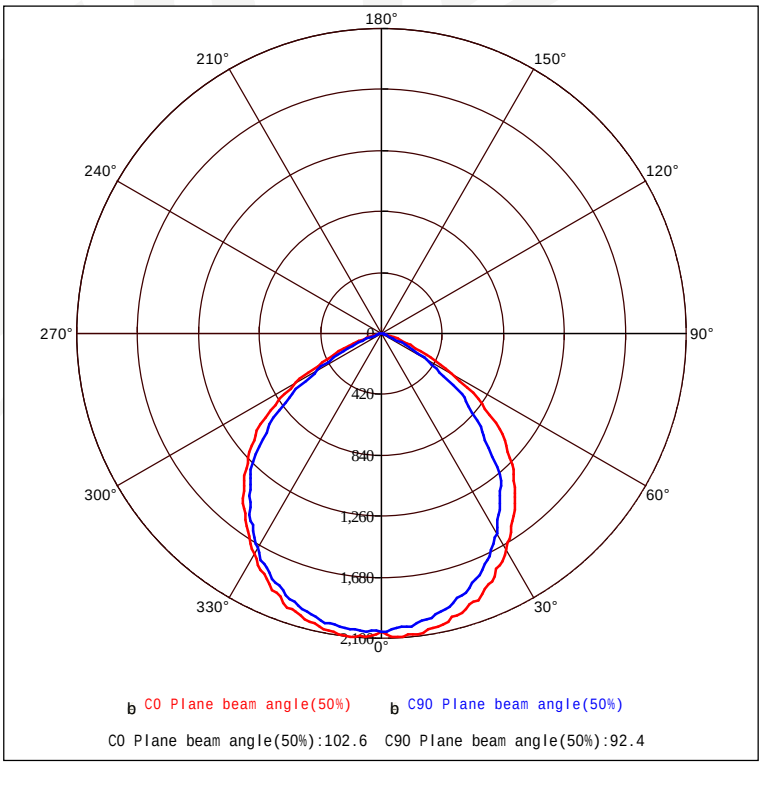
LED FLOOD LIGHT

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Light Source Data		Photometric Data			
Model	LPFL50W	Peak Value(cd)	2108.6	Efficiency(lm/w)	90.1
Nominal P(w)	1.0	Position	180.0,5.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0	Total Flux(lm)	4479.163	Down(C0-C180)	49.2
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)	50.8

Planar Intensity Distribution Curve

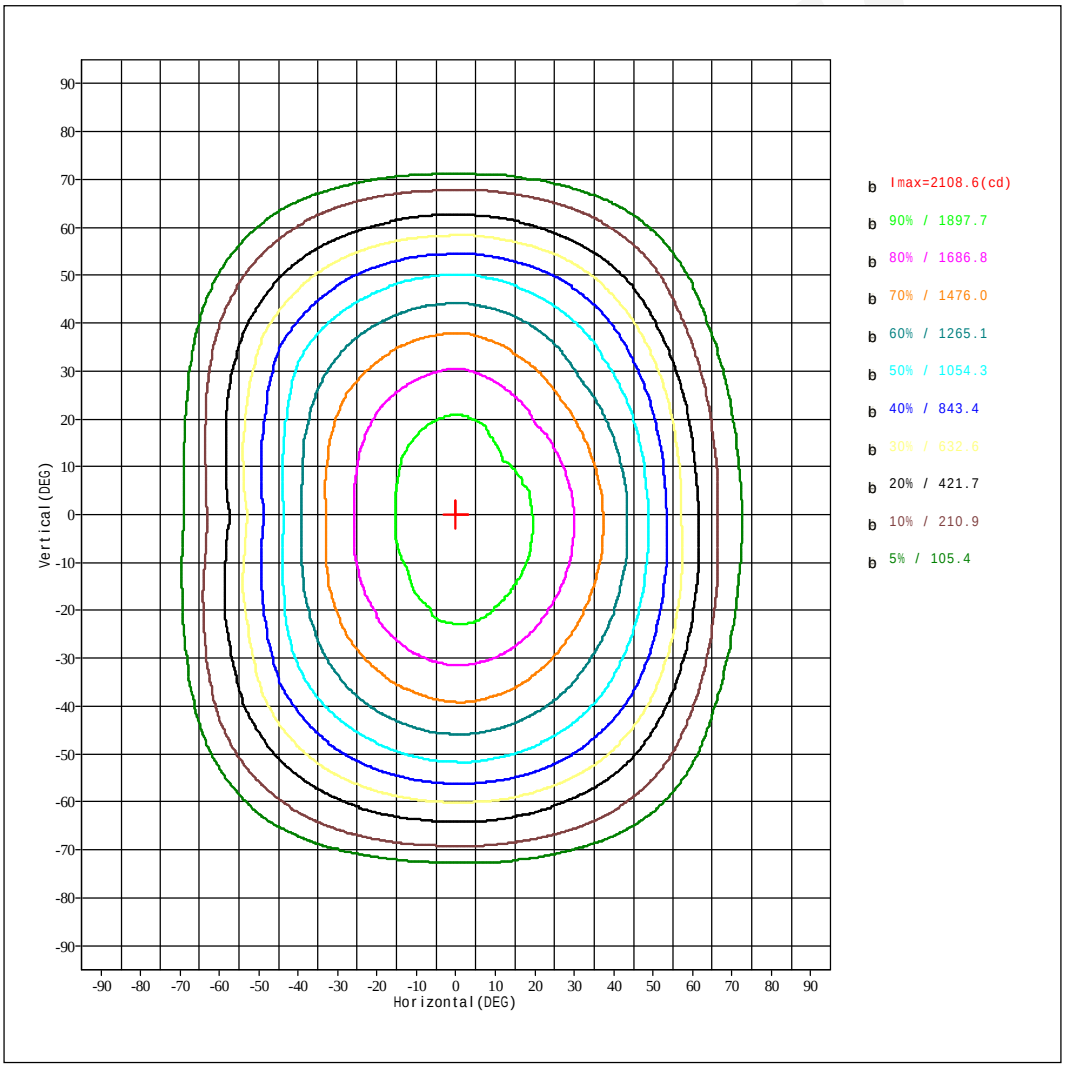


Gama Angle Range:-90 - 90(Deg)
Gama interval(Deg): 1
Temperature(Deg): 30
Tester: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve

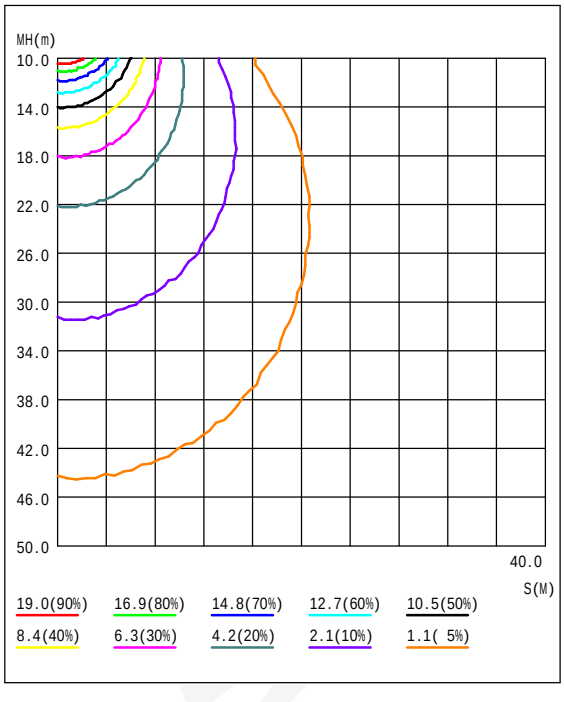


Gama Angle Range:-90 - 90(Deg)
Gama interval(Deg): 1
Temperature(Deg): 30
Tester: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

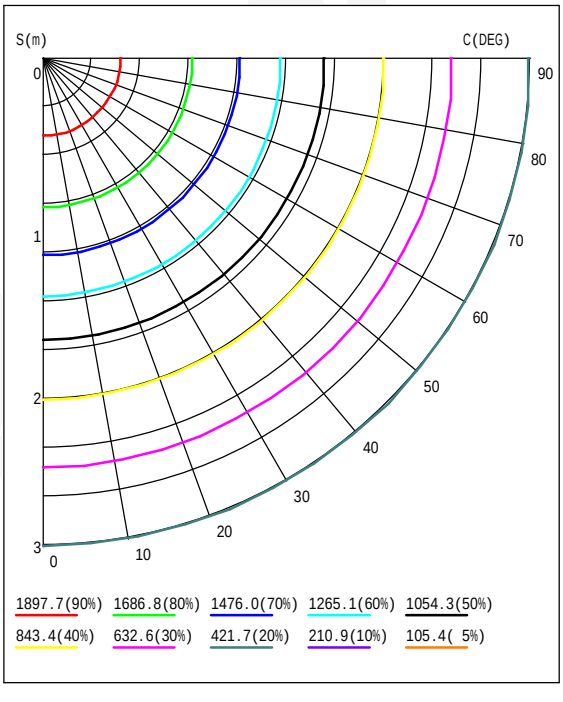
C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

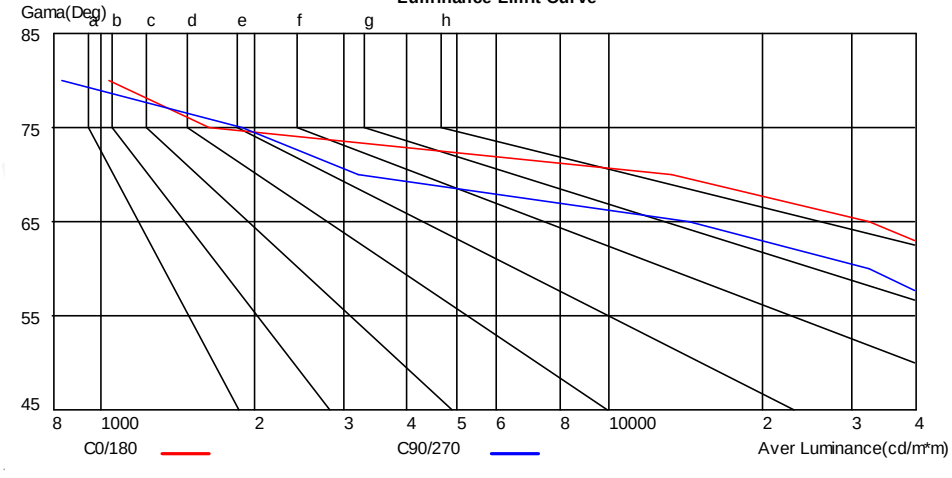
Aver Luminance(cd/m*m)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	125060.8	106327.5	82737.5	53765.5	32434.0	13318.3	1630.8	1035.8	755.3
C90	98312.8	76684.5	49727.5	32641.5	14362.8	3205.5	1888.8	837.5	642.8

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

Luminance Limit Curve

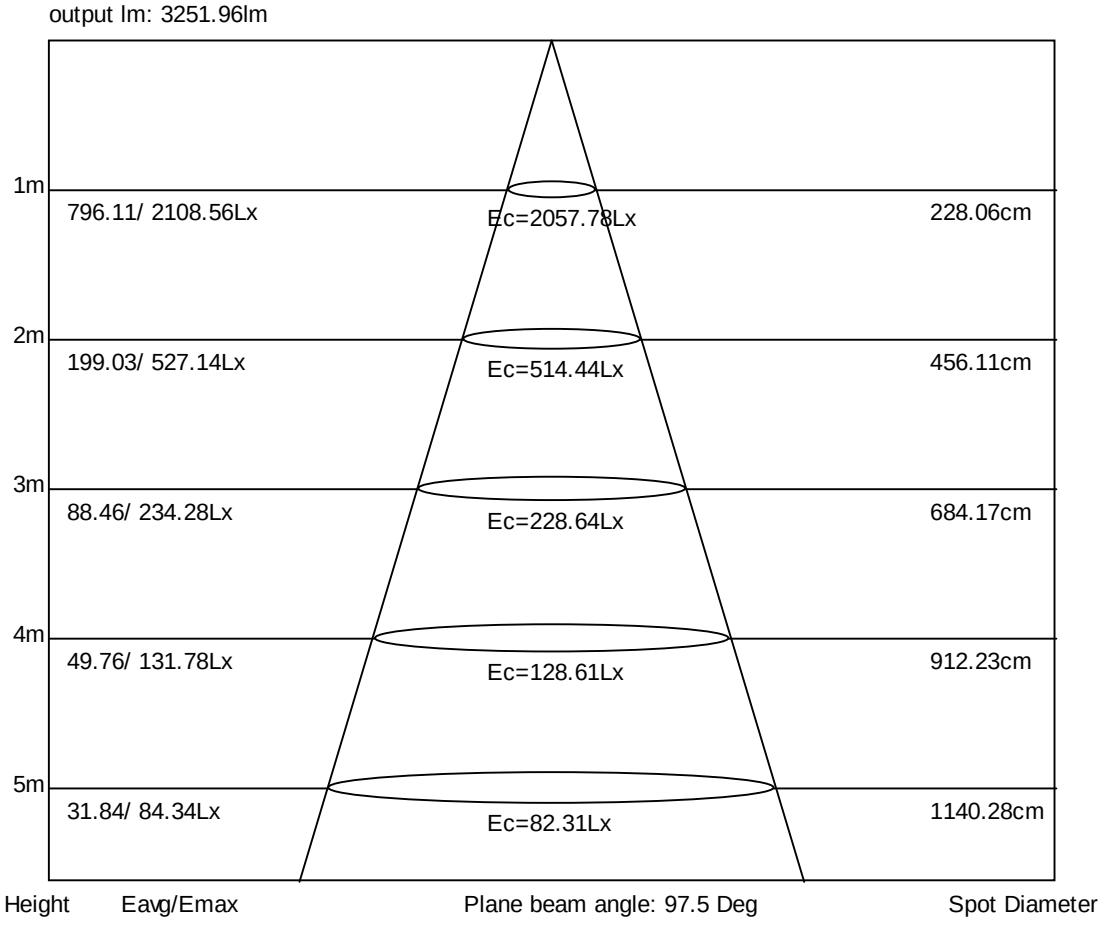


Gama Angle Range:-90 - 90(Deg)
Gama interval(Deg): 1
Temperature(Deg): 30
Tester: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

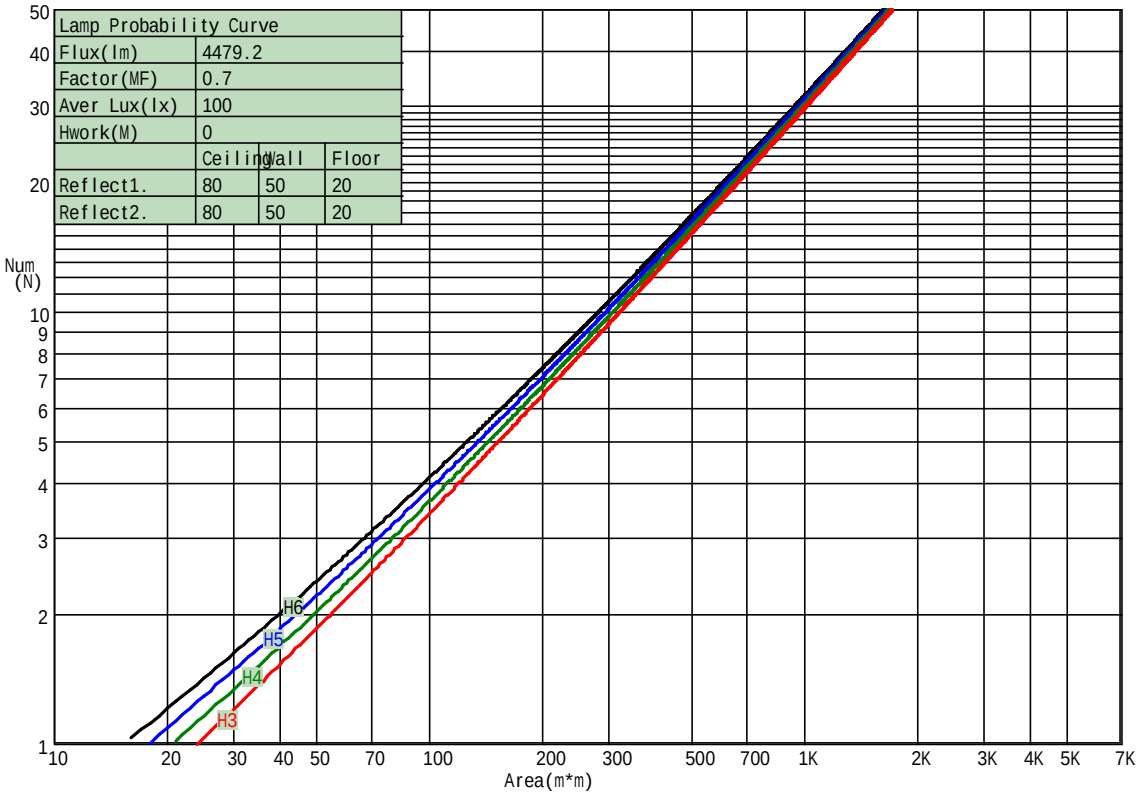
Average Illumination



Gama Angle Range:-90 - 90(Deg)	C Angle Range:0 - 180(Deg)
Gama interval(Deg): 1	C interval(Deg): 45
Temperature(Deg): 30	Humidity(%): 60
Tester: zxg	Date: 2021-3-19
Distance(m): 5.000	Remark:
Test System: ZWL Goniophotometer System V3.0	

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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	56	42	34	55	42	33	52	40	33
0.80	60	44	33	57	43	33	54	41	32
1.00	62	45	34	59	44	33	55	42	32
1.25	64	46	33	61	45	32	55	42	31
1.50	65	47	33	62	45	32	56	41	30
2.00	67	48	33	63	46	32	57	42	29
2.50	68	48	32	64	46	31	56	41	28
3.00	69	49	32	65	46	30	57	41	27
4.00	70	49	31	65	47	30	57	41	27
5.00	71	50	31	66	47	30	57	41	26

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	1.07	1.04	1.01	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.94	0.92	0.91
2	0.96	0.9	0.86	0.94	0.89	0.85	0.91	0.86	0.83	0.88	0.84	0.81	0.85	0.82	0.79
3	0.86	0.79	0.73	0.84	0.78	0.73	0.81	0.76	0.71	0.79	0.74	0.7	0.76	0.72	0.69
4	0.77	0.69	0.63	0.76	0.69	0.63	0.73	0.67	0.62	0.71	0.66	0.61	0.69	0.64	0.61
5	0.69	0.61	0.55	0.68	0.61	0.55	0.66	0.6	0.55	0.64	0.59	0.54	0.63	0.58	0.54
6	0.63	0.55	0.49	0.62	0.54	0.49	0.6	0.53	0.48	0.59	0.53	0.48	0.57	0.52	0.48
7	0.57	0.49	0.44	0.57	0.49	0.44	0.55	0.48	0.43	0.54	0.48	0.43	0.52	0.47	0.43
8	0.53	0.45	0.39	0.52	0.44	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.38
9	0.48	0.41	0.36	0.48	0.4	0.35	0.47	0.4	0.35	0.46	0.4	0.35	0.45	0.39	0.35
10	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.42	0.36	0.32

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
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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	0.24	0.14	0.04	0.24	0.14	0.04	0.22	0.13	0.04	0.21	0.12	0.04	0.2	0.12	0.04
2	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04
3	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.03	0.2	0.11	0.03
4	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
5	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	0.1	0.03
6	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
7	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.02	0.16	0.08	0.02
8	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
9	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02
10	0.15	0.07	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	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	0.14	0.15	0.13	0.12	0.1	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.14	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.04	0.02	0.01	0.01
3	0.16	0.11	0.08	0.13	0.1	0.07	0.09	0.07	0.05	0.05	0.04	0.03	0.02	0.01	0.01
4	0.15	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	0.14	0.09	0.05	0.12	0.08	0.04	0.08	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	0.04	0.08	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
7	0.13	0.07	0.04	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	0.07	0.03	0.11	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.11	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: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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	2074	2031	2041	2017	2109	2065	2048	2022	0-5	49.1	49.1
10	2063	2008	1989	1980	2077	2033	2034	1971	5-10	145	195
15	2017	1953	1897	1943	2021	1988	1981	1935	10-15	237	431
20	1943	1869	1814	1867	1958	1911	1908	1867	15-20	318	750
25	1818	1767	1723	1763	1857	1823	1809	1760	20-25	386	1136
30	1691	1647	1583	1655	1742	1710	1695	1609	25-30	438	1574
35	1567	1536	1405	1528	1600	1546	1567	1468	30-35	470	2044
40	1426	1370	1248	1369	1464	1397	1396	1317	35-40	484	2528
45	1251	1196	983	1197	1292	1243	1231	1145	40-45	474	3002
50	1063	1030	767	1048	1124	1056	1009	990	45-50	445	3447
55	827	796	497	801	903	855	760	760	50-55	391	3838
60	538	533	326	538	664	572	496	460	55-60	303	4140
65	324	289	144	324	372	301	267	233	60-65	192	4332
70	133	118	32.1	137	185	118	95.5	80.2	65-70	97.4	4430
75	16.3	20.1	18.9	23.6	28.2	20.6	29.4	18.9	70-75	30.5	4460
80	10.4	11	8.38	13	13.9	13	18.2	12.1	75-80	8.77	4469
85	7.55	7.54	6.43	7.99	10.6	10.1	11	9.82	80-85	5.63	4474
90	7.28	7.34	6.98	6.89	10.7	10.2	9.36	10	85-90	4.67	4479
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
Humidity(%): 60
Date: 2021-3-19
Remark:

Measured Para U: 217.6V I: 245.0mA P: 49.70W PF: 0.932 Test LM: 4479.16lm		
Lamp Name: LPFL50W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPFL50W	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	2074	2055	2036	2034	2039	2036	2025	2027	2069	2109	2089	2069	2059	2052	2043	2031	2028	2051
10.0	2063	2039	2014	2002	1993	1987	1983	1990	2035	2077	2058	2038	2034	2034	2020	1992	1981	2023
15.0	2017	1989	1960	1935	1909	1907	1928	1952	1987	2021	2007	1992	1986	1983	1971	1950	1944	1981
20.0	1943	1911	1877	1851	1826	1826	1850	1877	1919	1958	1937	1916	1910	1909	1899	1881	1876	1910
25.0	1818	1796	1773	1753	1733	1732	1750	1773	1816	1857	1842	1827	1818	1812	1798	1776	1767	1793
30.0	1691	1672	1652	1626	1597	1599	1631	1664	1704	1742	1728	1713	1705	1698	1676	1638	1618	1655
35.0	1567	1554	1540	1493	1434	1432	1487	1536	1568	1600	1577	1552	1553	1562	1545	1500	1478	1524
40.0	1426	1402	1377	1330	1275	1275	1330	1380	1423	1464	1435	1405	1397	1396	1378	1343	1329	1378
45.0	1251	1227	1202	1126	1030	1030	1127	1208	1251	1292	1271	1249	1239	1234	1212	1174	1157	1205
50.0	1063	1049	1034	944	824	828	956	1056	1091	1124	1094	1063	1040	1019	1005	996	998	1031
55.0	827	814	799	698	563	564	701	812	858	903	882	860	824	781	760	760	767	798
60.0	538	536	534	465	372	373	469	552	609	664	624	582	547	513	488	472	469	504
65.0	324	309	293	242	175	183	265	330	351	372	341	309	290	274	259	244	243	284
70.0	133	127	120	89.8	50.9	55.1	103	143	164	185	156	126	111	101	92.2	85.2	86	110
75.0	16.3	17.9	19.6	19.7	19.1	19.9	22	24.1	26.2	28.2	24.9	21.4	23.5	27.5	27.1	22.3	18.6	17.4
80.0	10.4	10.7	11	10.2	8.96	9.38	11.5	13.1	13.5	13.9	13.5	13.1	14.7	17	16.8	14.1	11.9	11.1
85.0	7.55	7.55	7.54	7.17	6.67	6.77	7.47	8.28	9.48	10.6	10.4	10.2	10.4	10.8	10.7	10.2	9.57	8.54
90.0	7.28	7.31	7.33	7.22	7.06	6.96	6.92	7.3	9.01	10.7	10.5	10.3	9.95	9.55	9.51	9.81	9.73	8.48
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: zxg
Distance(m): 5.000
Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)
C interval(Deg): 45
Humidity(%): 60
Date: 2021-3-19
Remark: