

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LSL3-48-45W-835M-MVD-3000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP21040069
[TESTLAB] LCTECH 210417104006
[TESTDATE] 2021/4/24
[ISSUEDATE] 2021/4/24
[MANUFAC] Foshan Innovative Lighting Co., Ltd
[LUMCAT] LSL3-48-45W-835M-MVD-3000K
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 120 0.391 46.17 0.9848

CHARACTERISTICS

Lumens Per Lamp	6216.08 (1 lamp)
Total Lamp Lumens	6216.08
Luminaire Lumens	6216
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	46.17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.09 m
Luminous Height	0.06 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14021	11413	11151
55	12214	9769	9725
65	10094	8150	8138
75	7375	6575	6538
85	3189	5375	5257

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
0	1825.922	1825.922	1825.922	1825.922	1825.922	1825.922	1825.922
5	1813.976	1814.471	1816.807	1817.958	1819.345	1820.498	1821.525
10	1782.733	1784.469	1789.267	1792.680	1797.583	1802.645	1803.054
15	1733.110	1736.828	1745.566	1755.563	1764.044	1772.141	1774.030
20	1663.271	1667.428	1682.059	1701.814	1718.029	1730.559	1735.330
25	1572.297	1583.144	1607.147	1633.962	1660.903	1680.419	1687.835
30	1462.484	1474.116	1507.685	1557.422	1601.438	1620.526	1627.147
35	1337.509	1355.707	1402.042	1464.351	1511.586	1546.638	1555.464
40	1202.426	1227.672	1283.227	1362.308	1419.802	1460.099	1469.709
45	1062.288	1089.336	1159.607	1263.634	1321.235	1362.953	1372.520
50	913.880	944.813	1026.461	1131.439	1207.719	1253.149	1262.578
55	765.932	804.413	893.959	1008.231	1088.491	1134.502	1142.960
60	620.281	661.950	774.560	879.586	962.921	1008.381	1014.548
65	481.981	526.817	631.908	754.351	834.390	876.433	882.177
70	350.573	409.991	513.522	632.299	707.925	746.039	749.807
75	231.112	301.474	407.875	520.014	590.758	623.088	627.551
80	124.516	194.258	315.208	424.117	486.503	514.609	516.289
85	44.568	119.818	239.394	339.868	402.392	421.265	423.938
90	9.189	70.342	177.222	267.212	320.777	343.283	345.219
95	4.135	42.164	130.770	212.100	259.576	280.913	284.531
100	4.135	27.957	96.605	166.544	210.158	230.296	233.957
105	4.595	20.852	73.140	131.465	171.173	190.070	193.499
110	5.054	16.268	56.735	105.266	139.665	157.981	162.275
115	5.514	14.435	44.887	84.759	114.729	131.540	136.329
120	6.433	12.831	37.360	69.046	95.228	110.293	114.780
125	7.351	12.142	30.759	56.282	78.906	91.989	96.309
130	7.811	11.684	26.201	46.486	65.075	76.848	80.478
135	8.270	11.225	22.780	39.183	53.058	62.841	65.526
140	9.649	11.225	19.818	32.356	43.536	51.311	54.092
145	10.568	11.682	17.993	27.340	36.276	42.492	43.977
150	11.487	12.368	16.627	23.466	30.830	34.808	36.061
155	12.406	13.743	15.487	20.733	25.166	28.702	29.904
160	13.784	15.117	15.483	18.225	21.539	23.506	24.627
165	15.622	16.262	16.619	16.849	18.595	20.565	20.669
170	17.460	17.178	17.760	17.765	17.452	18.305	18.470
175	18.379	18.323	18.441	18.446	18.129	17.853	18.470
180	9.264	9.264	9.264	9.264	9.264	9.264	9.264

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	667.89	10.70	10.70
0-30	1420.3	22.80	22.80
0-40	2330.48	37.50	37.50
0-60	4160.24	66.90	66.90
0-80	5382.38	86.60	86.60
0-90	5706.14	91.80	91.80
10-90	5533.4	89.00	89.00
20-40	1662.58	26.70	26.70
20-50	2614.72	42.10	42.10
40-70	2543.01	40.90	40.90
60-80	1222.14	19.70	19.70
70-80	508.89	8.20	8.20
80-90	323.76	5.20	5.20
90-110	320.44	5.20	5.20
90-120	397.83	6.40	6.40
90-130	446.54	7.20	7.20
90-150	493.40	7.90	7.90
90-180	509.95	8.20	8.20
110-180	189.50	3.00	3.00
0-180	6216.08	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.74
10-20	495.16
20-30	752.40
30-40	910.18
40-50	952.13
50-60	877.63
60-70	713.25
70-80	508.89
80-90	323.76
90-100	197.68
100-110	122.77
110-120	77.38
120-130	48.71
130-140	29.56
140-150	17.30
150-160	9.79
160-170	5.13
170-180	1.62

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	90	90	102	97	92	88	91	87	84	85	83	80	81	78	76	73
2	95	86	79	73	73	92	84	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	67	60	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	66	57	50	50	76	65	56	50	61	54	48	58	51	46	55	49	45	42
5	73	59	50	43	43	70	58	49	43	55	47	41	52	45	40	49	43	39	37
6	67	53	44	37	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	33	60	47	39	33	45	37	32	43	36	31	40	35	30	28
8	58	44	35	29	29	56	43	35	29	41	34	28	39	32	28	37	31	27	25
9	54	40	32	26	26	52	39	31	26	38	30	25	36	29	25	34	29	24	22
10	50	37	29	24	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

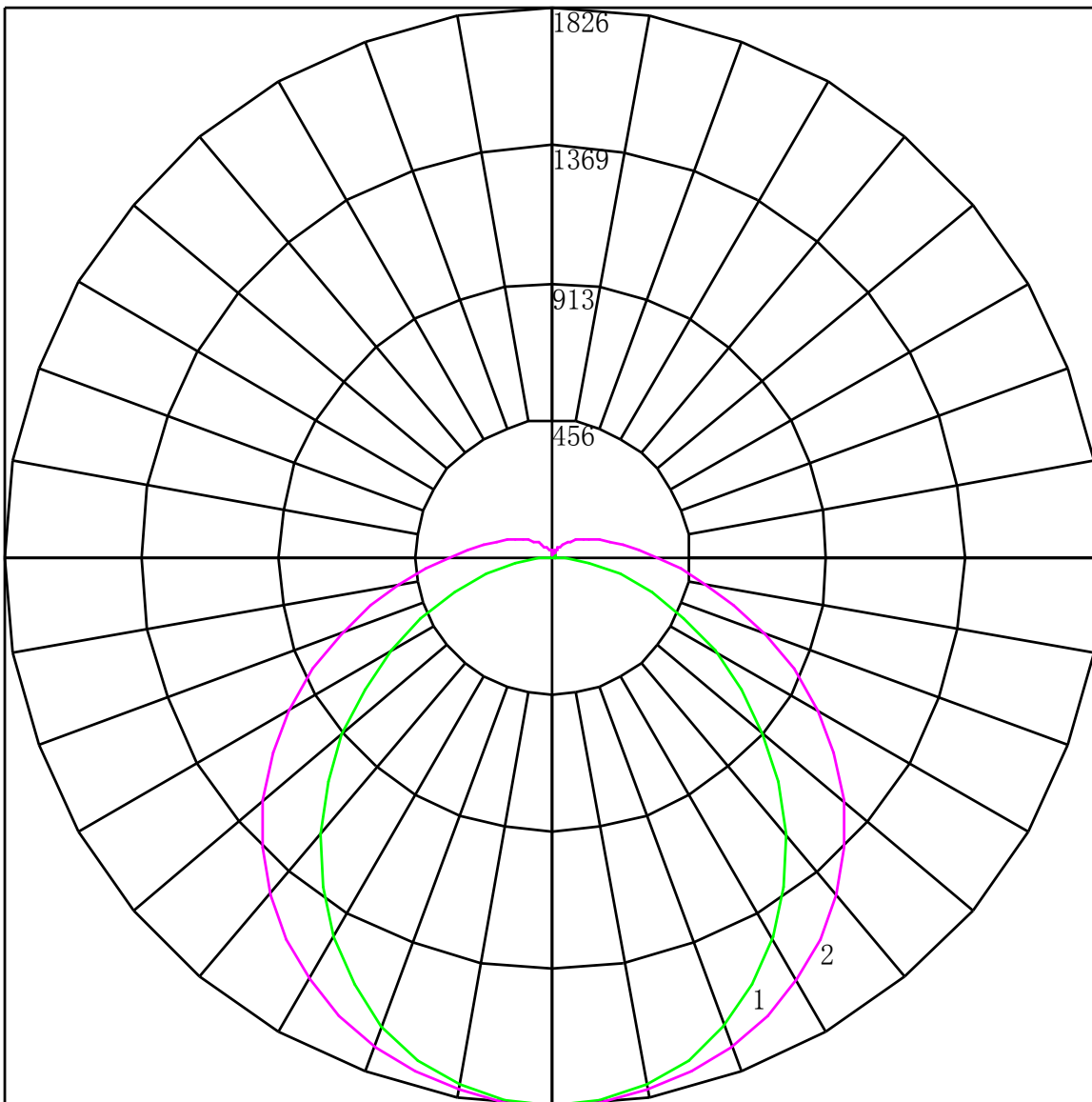
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UGR TABLE - CORRECTED

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
X=2H	Y=2H	17.3	18.8	17.8	19.3	19.8	21.0	22.5	21.4	23.0	23.5
	3H	18.5	19.9	19.0	20.3	20.9	23.3	24.6	23.8	25.1	25.7
	4H	18.8	20.1	19.4	20.6	21.2	24.3	25.6	24.9	26.1	26.7
	6H	19.0	20.2	19.6	20.8	21.3	25.4	26.6	25.9	27.1	27.7
	8H	19.0	20.2	19.6	20.8	21.3	25.9	27.1	26.5	27.6	28.2
	12H	19.1	20.2	19.6	20.7	21.3	26.5	27.6	27.1	28.2	28.8
4H	2H	18.4	19.7	18.9	20.2	20.8	21.3	22.6	21.8	23.1	23.6
	3H	19.8	21.0	20.4	21.5	22.1	23.8	24.9	24.3	25.5	26.0
	4H	20.3	21.4	20.9	21.9	22.5	25.0	26.0	25.6	26.6	27.2
	6H	20.6	21.5	21.2	22.1	22.7	26.3	27.2	26.8	27.7	28.4
	8H	20.7	21.5	21.3	22.1	22.8	26.9	27.7	27.5	28.3	29.0
	12H	20.7	21.5	21.3	22.1	22.7	27.6	28.4	28.2	29.0	29.6
8H	4H	21.2	22.0	21.7	22.6	23.2	25.2	26.0	25.7	26.6	27.2
	6H	21.7	22.4	22.3	23.0	23.6	26.6	27.3	27.2	27.9	28.5
	8H	21.8	22.5	22.4	23.1	23.7	27.3	28.0	27.9	28.6	29.3
	12H	21.9	22.5	22.5	23.1	23.8	28.2	28.7	28.8	29.4	30.1
12H	4H	21.4	22.1	22.0	22.8	23.4	25.2	25.9	25.8	26.5	27.2
	6H	22.0	22.6	22.6	23.2	24.0	26.6	27.2	27.2	27.8	28.5
	8H	22.2	22.8	22.9	23.4	24.2	27.4	28.0	28.0	28.6	29.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1825.922 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)