

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSL4-344801B-MVD(3000K).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP22030188
[TESTLAB] LCTECH 220331110002
[TESTDATE] 2022/4/12
[ISSUEDATE] 2022/4/12
[MANUFAC] Foshan Innovative Lighting Co., Ltd
[LUMCAT] LSL4-344801B-MVD(3000K)
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 119.98 0.265 31.41 0.9872

CHARACTERISTICS

Lumens Per Lamp	3844.83 (1 lamp)
Total Lamp Lumens	3844.83
Luminaire Lumens	3845
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	31.41
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.19 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.03 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10516	9446	9303
55	9710	8513	8728
65	8545	7684	8141
75	6773	6812	7527
85	3389	6022	7100

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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	1186.471	1186.471	1186.471	1186.471	1186.471	1186.471	1186.471
5	1179.592	1179.698	1179.610	1180.250	1180.388	1180.438	1180.679
10	1159.225	1159.338	1160.287	1161.239	1163.080	1163.808	1164.350
15	1123.717	1125.212	1127.912	1131.234	1133.010	1135.278	1136.178
20	1078.338	1080.170	1083.698	1090.138	1093.793	1097.055	1099.601
25	1023.177	1024.613	1028.957	1038.536	1044.779	1050.901	1053.750
30	956.627	959.389	968.360	979.449	997.504	998.829	1002.108
35	889.496	893.163	897.848	917.725	929.150	941.255	945.763
40	802.891	809.026	825.112	845.426	864.175	879.823	885.237
45	723.075	726.539	741.804	786.153	795.976	814.768	822.317
50	631.156	639.930	663.121	697.260	725.957	748.981	757.873
55	546.337	556.308	579.857	621.636	657.593	681.651	689.597
60	450.711	465.352	505.378	542.416	581.504	610.126	620.102
65	359.416	376.249	415.491	465.717	507.298	538.376	547.253
70	267.094	290.463	335.140	390.427	434.211	465.633	475.929
75	180.043	216.300	259.194	315.714	360.521	393.665	401.906
80	98.619	133.687	188.979	245.924	292.254	323.231	332.628
85	34.883	72.362	128.863	184.719	230.102	260.426	269.447
90	5.940	36.027	88.553	141.670	185.305	213.209	222.246
95	2.055	20.054	65.709	114.015	154.220	181.235	189.283
100	2.055	9.471	46.885	89.906	126.183	151.109	157.932
105	1.965	3.365	30.712	68.408	100.511	122.088	129.716
110	1.831	1.938	17.230	48.883	77.027	96.316	102.501
115	1.697	1.782	6.595	31.862	55.887	72.532	78.552
120	1.742	1.804	2.210	16.944	37.313	51.705	56.476
125	1.831	1.827	1.855	5.591	20.838	32.999	36.881
130	1.831	1.916	1.878	2.083	7.213	16.170	19.377
135	1.921	1.983	1.921	1.972	2.255	4.153	5.835
140	2.144	2.116	2.076	2.061	2.078	2.076	2.221
145	2.233	2.294	2.253	2.283	2.300	2.275	2.264
150	2.591	2.495	2.474	2.526	2.565	2.583	2.482
155	2.814	2.784	2.717	2.770	2.764	2.805	2.787
160	3.037	2.963	2.938	2.925	2.896	2.893	2.874
165	3.171	3.163	3.092	3.058	3.029	3.003	3.092
170	3.350	3.341	3.269	3.235	3.228	3.224	3.222
175	3.529	3.497	3.468	3.456	3.449	3.445	3.440
180	1.776	1.776	1.776	1.776	1.776	1.776	1.776

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	430.93	11.20	11.20
0-30	909.38	23.70	23.70
0-40	1482.44	38.60	38.60
0-60	2632.25	68.50	68.50
0-80	3412.03	88.70	88.70
0-90	3604.49	93.70	93.70
10-90	3492.43	90.80	90.80
20-40	1051.51	27.30	27.30
20-50	1647.64	42.90	42.90
40-70	1605.63	41.80	41.80
60-80	779.78	20.30	20.30
70-80	323.96	8.40	8.40
80-90	192.46	5.00	5.00
90-110	185.42	4.80	4.80
90-120	220.71	5.70	5.70
90-130	233.68	6.10	6.10
90-150	237.89	6.20	6.20
90-180	240.34	6.30	6.30
110-180	54.92	1.40	1.40
0-180	3844.83	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.06
10-20	318.87
20-30	478.45
30-40	573.05
40-50	596.13
50-60	553.68
60-70	455.82
70-80	323.96
80-90	192.46
90-100	115.71
100-110	69.71
110-120	35.29
120-130	12.97
130-140	2.77
140-150	1.44
150-160	1.27
160-170	0.87
170-180	0.30

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	75
2	96	87	79	73	92	84	77	72	80	74	69	75	71	67	71	68	64	62
3	87	76	67	60	84	74	66	59	70	63	57	66	60	56	63	58	54	51
4	79	67	58	51	77	65	57	50	62	54	49	59	52	47	56	50	46	44
5	73	60	50	43	70	58	49	43	55	48	42	53	46	41	50	44	40	37
6	67	54	44	38	65	52	44	37	50	42	37	48	41	36	45	40	35	33
7	62	49	40	33	60	47	39	33	45	38	32	43	37	32	41	35	31	29
8	58	44	36	30	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	41	32	27	52	40	32	26	38	31	26	37	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

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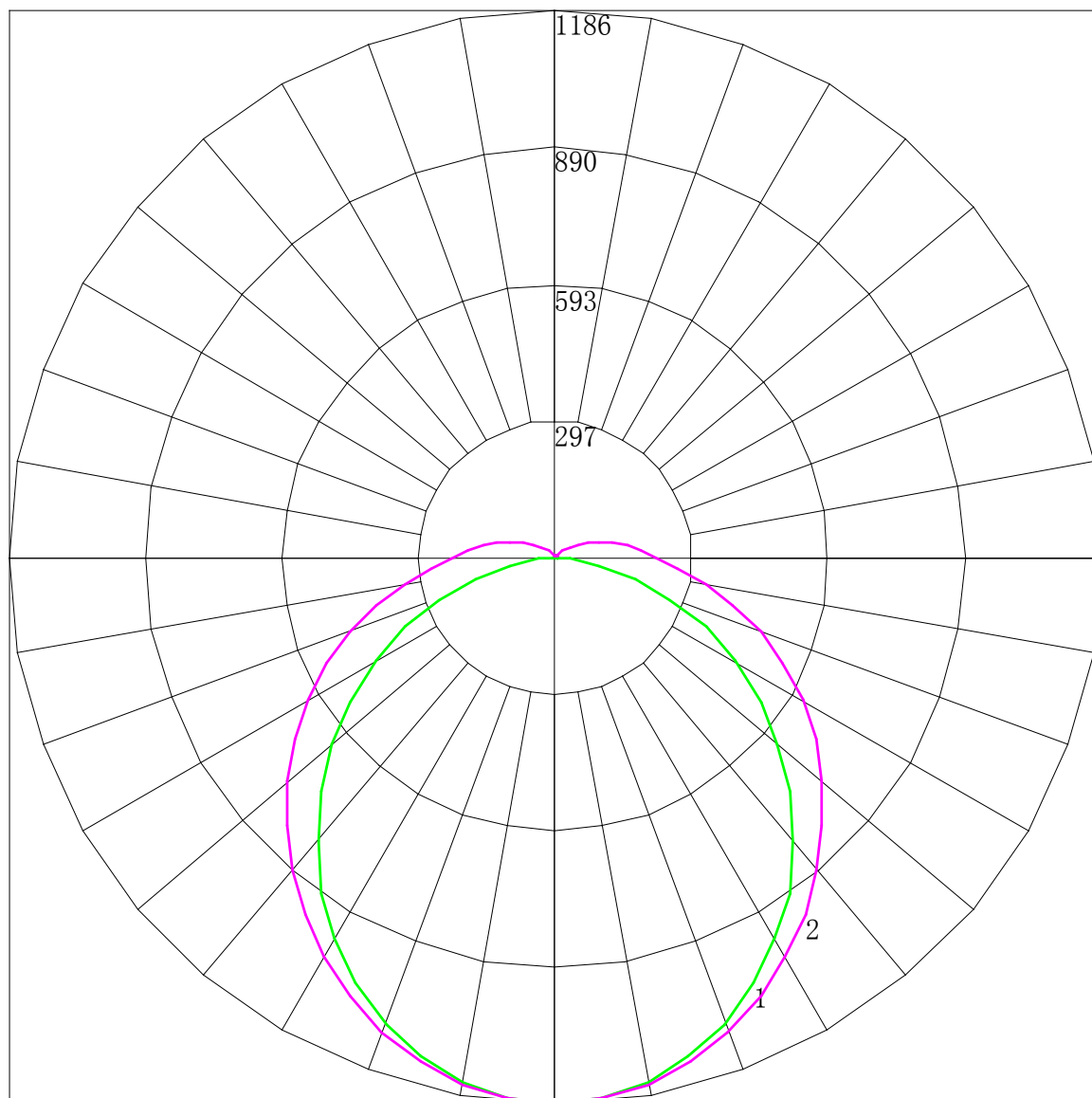
UGR TABLE - CORRECTED

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

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.4	18.3	19.9	20.3	20.1	21.7	20.6	22.1	22.6
	3H	19.3	20.7	19.8	21.2	21.7	22.6	24.0	23.1	24.5	25.0
	4H	19.8	21.1	20.3	21.6	22.1	23.7	25.1	24.2	25.6	26.1
	6H	20.1	21.3	20.6	21.8	22.3	24.9	26.2	25.4	26.6	27.2
	8H	20.1	21.3	20.6	21.8	22.4	25.5	26.7	26.0	27.2	27.7
	12H	20.1	21.3	20.6	21.8	22.3	26.1	27.3	26.7	27.8	28.4
4H	2H	18.8	20.2	19.3	20.6	21.1	20.6	21.9	21.0	22.4	22.9
	3H	20.5	21.6	21.0	22.1	22.7	23.2	24.4	23.8	24.9	25.4
	4H	21.1	22.1	21.6	22.7	23.2	24.5	25.6	25.1	26.1	26.7
	6H	21.5	22.4	22.0	23.0	23.5	25.9	26.8	26.5	27.4	28.0
	8H	21.6	22.4	22.1	23.0	23.6	26.6	27.5	27.2	28.0	28.6
	12H	21.6	22.4	22.2	23.0	23.6	27.4	28.2	28.0	28.8	29.4
8H	4H	21.8	22.7	22.4	23.2	23.8	24.8	25.6	25.3	26.2	26.8
	6H	22.3	23.1	22.9	23.7	24.3	26.3	27.0	26.9	27.6	28.2
	8H	22.5	23.2	23.1	23.8	24.4	27.1	27.8	27.7	28.4	29.0
	12H	22.6	23.2	23.2	23.8	24.5	28.1	28.7	28.7	29.3	29.9
12H	4H	22.0	22.8	22.6	23.4	24.0	24.8	25.6	25.3	26.1	26.7
	6H	22.7	23.3	23.3	23.9	24.6	26.3	27.0	26.9	27.6	28.2
	8H	22.9	23.5	23.5	24.1	24.8	27.2	27.8	27.8	28.4	29.1

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1186.471 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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