

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LSL4-344801B-MVD(4000K).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(4000K)
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 119.96 0.27 31.98 0.9874

CHARACTERISTICS

Lumens Per Lamp	4006.92 (1 lamp)
Total Lamp Lumens	4006.92
Luminaire Lumens	4007
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	31.98
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	10961	9845	9694
55	10123	8871	9099
65	8911	8012	8485
75	7058	7102	7844
85	3559	6279	7400

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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	1236.580	1236.580	1236.580	1236.580	1236.580	1236.580	1236.580
5	1229.432	1229.229	1229.080	1229.938	1230.165	1230.394	1230.484
10	1208.435	1208.070	1208.990	1210.435	1212.257	1212.728	1213.067
15	1171.356	1172.435	1175.208	1179.185	1181.074	1183.140	1183.895
20	1124.001	1125.439	1129.282	1136.197	1139.951	1143.174	1146.014
25	1066.372	1067.531	1072.099	1082.571	1088.871	1095.040	1098.118
30	997.127	999.599	1009.175	1020.747	1039.842	1040.941	1044.562
35	927.435	930.777	935.651	956.487	968.354	980.876	985.781
40	836.746	843.023	859.708	881.138	900.913	916.623	922.645
45	753.653	756.829	772.706	819.377	829.717	848.836	856.898
50	658.050	666.848	690.988	726.676	756.742	780.383	789.844
55	569.595	579.542	604.011	647.782	685.338	710.388	718.871
60	469.525	484.880	526.594	565.359	606.160	635.754	646.157
65	374.816	392.005	432.857	485.588	528.758	560.898	570.394
70	278.320	302.691	349.186	406.694	452.471	485.158	495.938
75	187.631	225.420	270.118	329.133	375.735	410.302	418.870
80	102.751	139.435	196.805	256.451	304.759	336.982	346.591
85	36.633	75.513	134.095	192.617	239.745	271.401	280.843
90	6.254	37.425	92.136	147.856	193.081	221.935	231.641
95	2.234	21.165	68.282	118.602	160.574	188.817	197.243
100	2.234	9.804	49.063	93.780	131.382	157.457	164.587
105	1.787	3.565	32.052	71.391	104.622	127.202	134.979
110	1.787	1.782	17.910	50.998	80.292	100.261	106.677
115	1.787	1.782	6.860	33.264	58.177	75.528	81.858
120	1.787	1.782	2.431	17.524	38.936	53.887	59.217
125	2.234	2.004	2.208	5.989	21.683	34.674	38.317
130	1.787	1.782	1.767	2.216	7.303	17.008	20.465
135	1.787	2.005	1.767	1.993	2.211	4.639	6.096
140	2.680	2.450	2.208	2.216	2.431	2.428	2.612
145	2.680	2.673	2.650	2.659	2.654	2.650	2.612
150	2.680	2.673	2.650	2.659	2.654	2.650	2.612
155	2.680	2.673	2.650	2.659	2.654	2.650	3.048
160	3.127	3.118	3.092	3.103	3.096	2.869	3.048
165	3.574	3.564	3.533	3.323	3.315	3.092	3.483
170	3.574	3.564	3.533	3.546	3.538	3.533	3.483
175	3.574	3.564	3.533	3.546	3.538	3.533	3.483
180	1.770	1.770	1.770	1.770	1.770	1.770	1.770

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	449.10	11.20	11.20
0-30	947.71	23.70	23.70
0-40	1544.93	38.60	38.60
0-60	2743.14	68.50	68.50
0-80	3555.78	88.70	88.70
0-90	3756.37	93.70	93.70
10-90	3639.58	90.80	90.80
20-40	1095.84	27.30	27.30
20-50	1717.05	42.90	42.90
40-70	1673.22	41.80	41.80
60-80	812.64	20.30	20.30
70-80	337.63	8.40	8.40
80-90	200.58	5.00	5.00
90-110	193.17	4.80	4.80
90-120	229.92	5.70	5.70
90-130	243.49	6.10	6.10
90-150	248.02	6.20	6.20
90-180	250.56	6.30	6.30
110-180	57.39	1.40	1.40
0-180	4006.92	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.78
10-20	332.31
20-30	498.61
30-40	597.23
40-50	621.21
50-60	576.99
60-70	475.01
70-80	337.63
80-90	200.58
90-100	120.55
100-110	72.62
110-120	36.75
120-130	13.57
130-140	2.90
140-150	1.62
150-160	1.28
160-170	0.94
170-180	0.32

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	61
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

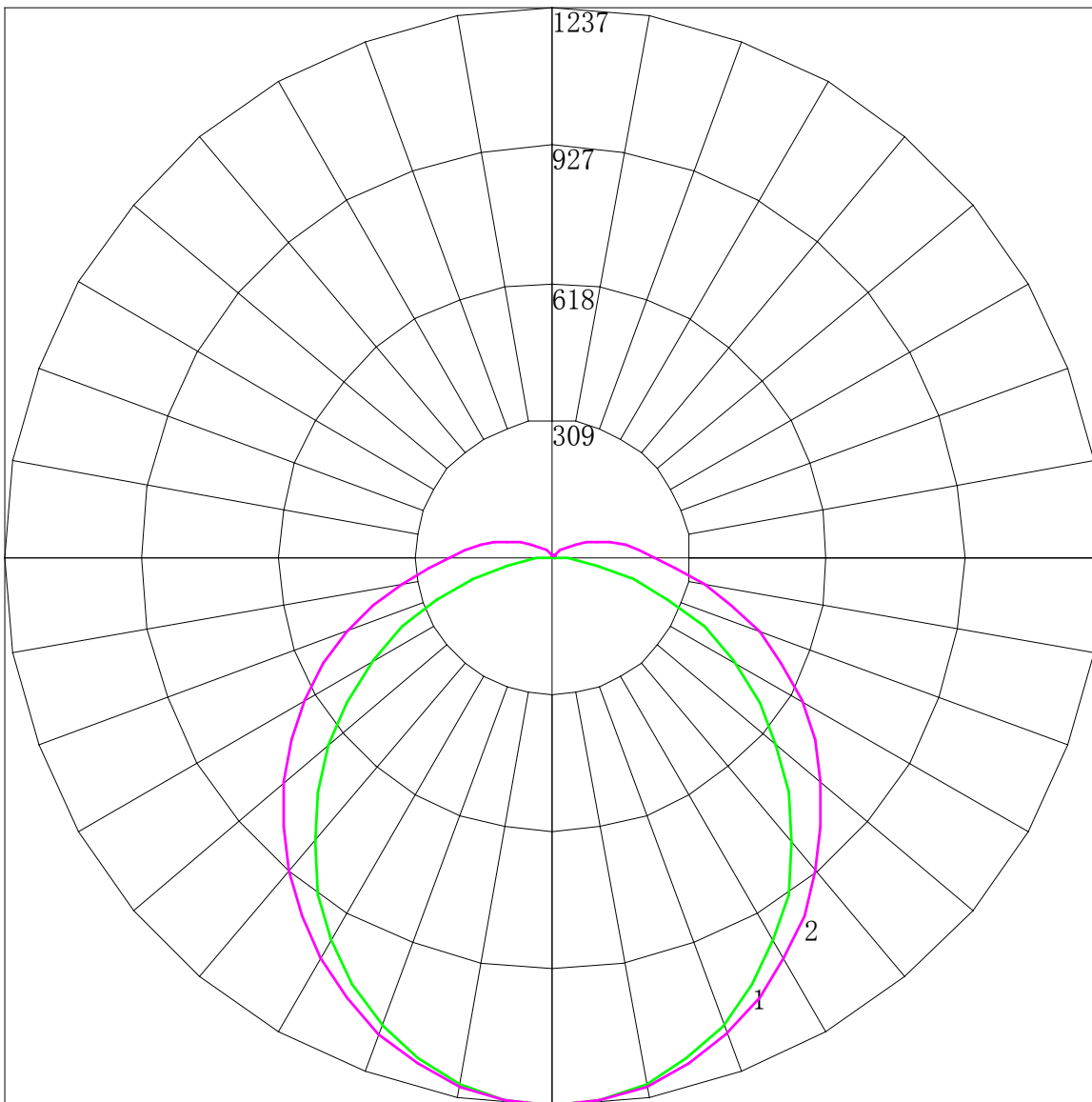
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UGR TABLE - CORRECTED

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	18.0	19.5	18.4	20.0	20.4	20.2	21.8	20.7	22.2	22.7
	3H	19.4	20.8	19.9	21.3	21.8	22.7	24.1	23.2	24.6	25.1
	4H	19.9	21.2	20.4	21.7	22.2	23.8	25.2	24.3	25.7	26.2
	6H	20.2	21.4	20.7	21.9	22.4	25.0	26.3	25.5	26.7	27.3
	8H	20.2	21.4	20.7	21.9	22.5	25.6	26.8	26.1	27.3	27.8
	12H	20.2	21.4	20.7	21.9	22.4	26.2	27.4	26.8	27.9	28.5
4H	2H	18.9	20.3	19.4	20.7	21.2	20.7	22.0	21.1	22.5	23.0
	3H	20.6	21.7	21.1	22.2	22.8	23.3	24.5	23.8	25.0	25.5
	4H	21.2	22.2	21.7	22.8	23.3	24.6	25.7	25.2	26.2	26.8
	6H	21.6	22.5	22.1	23.1	23.6	26.0	26.9	26.6	27.5	28.1
	8H	21.7	22.5	22.2	23.1	23.7	26.7	27.6	27.3	28.1	28.7
	12H	21.7	22.5	22.3	23.1	23.7	27.5	28.3	28.1	28.9	29.5
8H	4H	21.9	22.8	22.5	23.3	23.9	24.9	25.7	25.4	26.3	26.9
	6H	22.4	23.2	23.0	23.8	24.4	26.4	27.1	27.0	27.7	28.3
	8H	22.6	23.3	23.2	23.9	24.5	27.2	27.9	27.8	28.5	29.1
	12H	22.7	23.3	23.3	23.9	24.6	28.2	28.8	28.8	29.4	30.0
12H	4H	22.1	22.9	22.7	23.5	24.1	24.9	25.7	25.4	26.2	26.8
	6H	22.8	23.4	23.4	24.0	24.7	26.4	27.1	27.0	27.7	28.3
	8H	23.0	23.6	23.6	24.2	24.9	27.3	27.9	27.9	28.5	29.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1236.58 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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