

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSL4-344801B-MVD(3500K).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP22030188
[TESTLAB] LCTECH 220331110002
[TESTDATE] 2022/4/12
[ISSUE DATE] 2022/4/12
[MANUFAC] Foshan Innovative Lighting Co., Ltd
[LUMCAT] LSL4-344801B-MVD(3500K)
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 120.03 0.259 30.65 0.9867

CHARACTERISTICS

Lumens Per Lamp	4034.68 (1 lamp)
Total Lamp Lumens	4034.68
Luminaire Lumens	4035
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	30.65
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	11029	9915	9763
55	10192	8930	9159
65	8972	8065	8543
75	7107	7148	7901
85	3558	6321	7446

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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	1245.209	1245.209	1245.209	1245.209	1245.209	1245.209	1245.209
5	1237.616	1238.081	1238.589	1238.569	1238.795	1238.361	1239.114
10	1216.178	1216.697	1218.042	1218.626	1220.668	1221.139	1221.698
15	1179.108	1181.057	1184.245	1187.159	1189.051	1190.895	1192.527
20	1131.765	1133.609	1137.853	1143.959	1147.712	1150.936	1153.778
25	1073.703	1075.247	1080.197	1089.677	1096.641	1102.587	1105.450
30	1004.028	1006.639	1016.573	1027.864	1046.956	1048.056	1051.462
35	933.460	937.140	942.348	962.953	975.038	987.559	992.249
40	842.794	848.928	865.921	887.176	906.728	923.097	928.682
45	758.381	762.277	778.649	825.203	835.322	854.879	862.939
50	662.355	671.617	696.007	731.856	761.917	785.554	795.454
55	573.475	584.076	608.983	652.090	690.083	715.129	723.615
60	472.983	488.286	530.416	569.240	610.476	640.288	650.905
65	377.404	394.731	436.186	488.818	532.423	564.780	574.277
70	280.038	304.737	352.028	409.499	455.707	488.389	499.390
75	188.925	227.015	272.033	331.286	378.326	413.107	421.891
80	103.619	140.347	198.237	258.175	306.697	339.135	349.181
85	36.624	75.748	135.052	193.913	241.472	273.122	282.567
90	6.253	37.878	93.070	148.714	194.374	223.665	232.933
95	2.233	21.169	68.984	119.465	161.872	189.889	198.972
100	2.233	9.806	49.312	94.201	132.244	158.314	165.447
105	1.787	3.566	32.069	71.600	105.488	127.842	135.841
110	1.787	1.782	18.143	51.208	80.943	101.128	107.541
115	1.787	1.782	6.864	33.258	58.829	76.177	82.288
120	1.787	1.782	2.433	17.744	38.929	54.320	59.213
125	2.233	2.004	2.210	5.988	21.679	34.668	38.750
130	1.787	1.782	1.768	2.216	7.302	17.005	20.463
135	1.787	2.005	1.768	1.992	2.211	4.638	6.095
140	2.680	2.450	2.210	2.216	2.430	2.427	2.612
145	2.680	2.673	2.651	2.659	2.653	2.649	2.612
150	2.680	2.673	2.651	2.659	2.653	2.649	2.612
155	2.680	2.673	2.651	2.659	2.653	2.649	3.048
160	3.126	3.119	3.093	3.102	3.096	2.869	3.048
165	3.573	3.564	3.535	3.322	3.315	3.091	3.483
170	3.573	3.564	3.535	3.545	3.538	3.533	3.483
175	3.573	3.564	3.535	3.545	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	452.25	11.20	11.20
0-30	954.35	23.70	23.70
0-40	1555.69	38.60	38.60
0-60	2762.34	68.50	68.50
0-80	3580.66	88.70	88.70
0-90	3782.58	93.80	93.80
10-90	3664.97	90.80	90.80
20-40	1103.44	27.30	27.30
20-50	1729.01	42.90	42.90
40-70	1685.00	41.80	41.80
60-80	818.32	20.30	20.30
70-80	339.97	8.40	8.40
80-90	201.92	5.00	5.00
90-110	194.42	4.80	4.80
90-120	231.43	5.70	5.70
90-130	245.04	6.10	6.10
90-150	249.57	6.20	6.20
90-180	252.11	6.20	6.20
110-180	57.68	1.40	1.40
0-180	4034.68	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.60
10-20	334.64
20-30	502.10
30-40	601.34
40-50	625.57
50-60	581.08
60-70	478.35
70-80	339.97
80-90	201.92
90-100	121.38
100-110	73.04
110-120	37.01
120-130	13.61
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	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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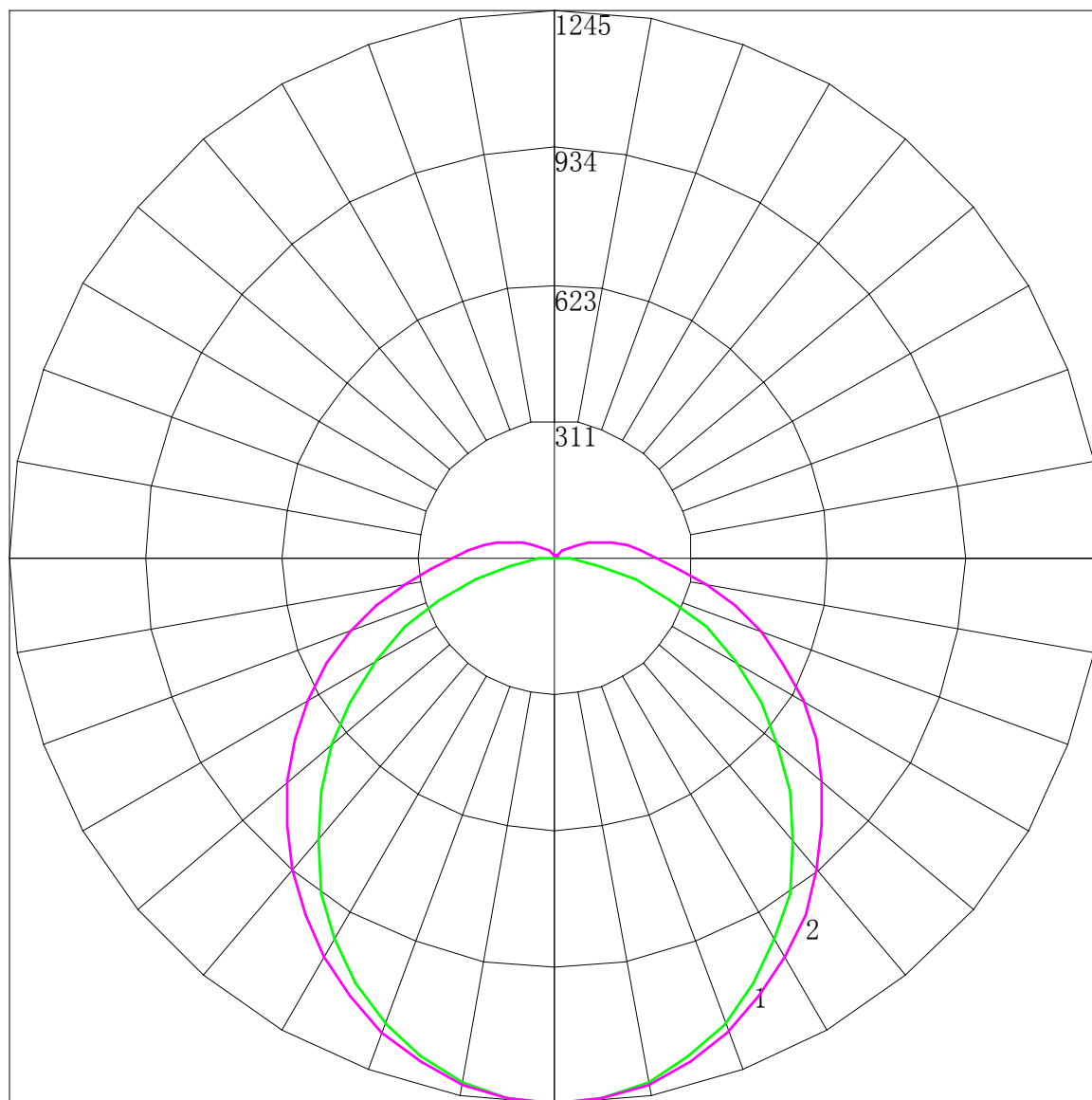
UGR TABLE - CORRECTED

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	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	22.5	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 = 1245.209 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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