

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSL4-172401B-MVD(4000K).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP22030186
[TESTLAB] LCTECH 220331110001
[TESTDATE] 2022/4/12
[ISSUEDATE] 2022/4/12
[MANUFAC] Foshan Innovative Lighting Co., Ltd
[LUMCAT] LSL4-172401B-MVD(4000K)
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 120.08 0.141 16.75 0.99

CHARACTERISTICS

Lumens Per Lamp	2114.31 (1 lamp)
Total Lamp Lumens	2114.31
Luminaire Lumens	2114
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	16.75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.58 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	11595	10534	10594
55	10519	9415	9862
65	9075	8420	9145
75	6925	7348	8352
85	2948	6239	7842

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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	671.172	671.172	671.172	671.172	671.172	671.172	671.172
5	666.722	666.506	667.396	667.394	668.290	667.873	667.275
10	655.150	654.949	655.848	656.726	657.652	657.539	656.883
15	633.786	634.724	636.525	638.280	640.363	640.605	639.129
20	607.527	608.722	611.206	613.167	616.868	618.394	618.344
25	574.146	575.831	578.781	582.942	588.054	591.125	591.065
30	534.534	537.160	541.913	548.272	559.470	560.778	561.187
35	492.252	495.600	500.603	509.603	521.113	527.132	528.278
40	445.965	448.931	457.517	469.377	482.769	490.843	493.203
45	397.006	401.815	411.765	432.714	443.978	454.118	456.397
50	346.268	352.033	365.791	384.480	403.638	415.637	418.725
55	297.310	303.584	319.152	340.699	363.296	376.711	379.754
60	245.681	252.468	277.845	297.807	321.183	336.468	341.648
65	194.498	204.243	227.427	254.248	278.845	295.346	299.646
70	144.204	156.906	183.008	211.354	237.841	254.221	258.510
75	96.581	117.354	141.476	171.129	196.835	213.537	217.373
80	52.074	71.343	101.277	131.570	157.601	174.173	178.402
85	17.803	37.784	67.963	97.789	122.579	138.547	145.060
90	4.006	17.559	45.975	74.010	97.089	111.938	116.914
95	0.445	9.559	33.538	58.452	80.021	93.905	98.294
100	0.445	4.002	22.877	45.784	64.726	76.753	80.974
105	0.445	1.333	14.881	33.338	50.318	61.578	64.952
110	0.890	0.667	7.996	23.337	38.127	47.943	50.663
115	0.890	0.667	2.221	14.891	26.822	35.628	38.105
120	0.890	0.889	0.888	7.335	16.847	24.412	26.414
125	0.890	0.889	0.888	1.779	9.090	14.516	16.888
130	0.890	0.889	0.888	0.889	1.995	6.597	8.660
135	0.890	0.889	0.888	0.889	0.887	1.319	2.165
140	0.890	0.889	0.888	0.889	0.887	0.880	0.866
145	0.890	0.889	0.888	1.112	0.887	1.100	0.866
150	0.890	0.889	0.888	1.112	1.109	1.319	0.866
155	1.335	1.333	1.555	1.555	1.551	1.539	1.732
160	1.780	1.778	1.777	1.778	1.773	1.759	1.732
165	1.780	1.778	1.777	1.778	1.773	1.759	1.732
170	1.780	1.778	1.777	1.778	1.773	1.759	1.732
175	1.780	1.778	1.777	1.778	1.773	1.759	1.732
180	0.884	0.884	0.884	0.884	0.884	0.884	0.884

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	243.27	11.50	11.50
0-30	512.10	24.20	24.20
0-40	831.79	39.30	39.30
0-60	1467.02	69.40	69.40
0-80	1891.96	89.50	89.50
0-90	1994.21	94.30	94.30
10-90	1930.85	91.30	91.30
20-40	588.52	27.80	27.80
20-50	919.04	43.50	43.50
40-70	884.53	41.80	41.80
60-80	424.94	20.10	20.10
70-80	175.65	8.30	8.30
80-90	102.25	4.80	4.80
90-110	94.40	4.50	4.50
90-120	111.31	5.30	5.30
90-130	117.06	5.50	5.50
90-150	118.77	5.60	5.60
90-180	120.10	5.70	5.70
110-180	25.70	1.20	1.20
0-180	2114.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.36
10-20	179.91
20-30	268.83
30-40	319.69
40-50	330.52
50-60	304.71
60-70	249.30
70-80	175.65
80-90	102.25
90-100	59.65
100-110	34.75
110-120	16.91
120-130	5.74
130-140	1.12
140-150	0.60
150-160	0.67
160-170	0.50
170-180	0.16

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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	97	97	97	94
1	106	101	96	91	103	98	93	89	92	89	85	87	85	82	83	81	78	76
2	96	87	80	73	93	85	78	72	80	74	70	76	71	67	72	68	65	62
3	87	76	67	61	84	74	66	60	70	63	58	67	61	56	63	59	54	52
4	80	67	58	51	77	66	57	50	62	55	49	59	53	48	56	51	47	44
5	73	60	51	44	71	58	50	43	56	48	42	53	47	41	51	45	40	38
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	35	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	31	29
8	58	45	36	30	56	44	35	30	42	34	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	31	26	36	30	25	24
10	51	38	30	24	49	37	29	24	36	29	24	34	28	23	33	27	23	21

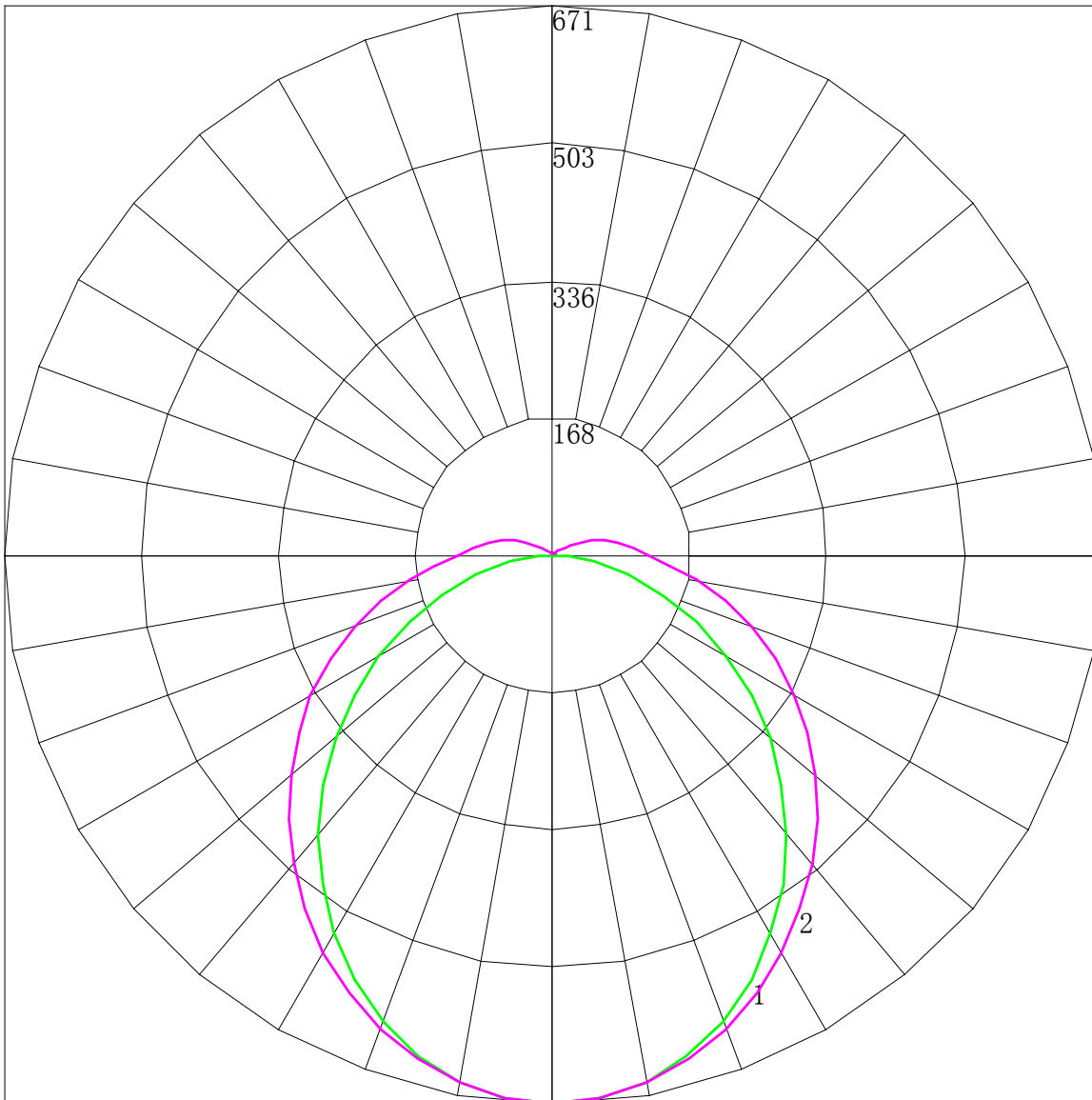
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UGR TABLE - CORRECTED

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	18.2	19.8	18.7	20.2	20.7	20.5	22.0	20.9	22.5	22.9
	3H	19.6	21.0	20.1	21.5	22.0	22.9	24.3	23.3	24.7	25.2
	4H	20.1	21.4	20.6	21.9	22.4	24.0	25.3	24.5	25.8	26.3
	6H	20.4	21.6	20.9	22.1	22.6	25.1	26.3	25.6	26.8	27.3
	8H	20.4	21.6	20.9	22.1	22.6	25.6	26.8	26.1	27.3	27.8
	12H	20.4	21.6	20.9	22.1	22.6	26.2	27.3	26.7	27.8	28.4
4H	2H	19.1	20.5	19.6	20.9	21.4	20.9	22.2	21.4	22.7	23.2
	3H	20.8	21.9	21.3	22.4	23.0	23.5	24.6	24.0	25.2	25.7
	4H	21.4	22.4	21.9	23.0	23.5	24.8	25.8	25.3	26.3	26.9
	6H	21.8	22.7	22.3	23.2	23.8	26.1	27.0	26.6	27.5	28.1
	8H	21.8	22.7	22.4	23.3	23.9	26.7	27.6	27.3	28.1	28.7
	12H	21.9	22.7	22.5	23.2	23.8	27.4	28.2	28.0	28.8	29.4
8H	4H	22.1	22.9	22.6	23.5	24.1	25.0	25.8	25.5	26.4	27.0
	6H	22.6	23.3	23.2	23.9	24.5	26.4	27.2	27.0	27.8	28.4
	8H	22.8	23.4	23.4	24.0	24.7	27.2	27.9	27.8	28.5	29.1
	12H	22.9	23.5	23.5	24.1	24.7	28.1	28.7	28.7	29.3	30.0
12H	4H	22.3	23.0	22.8	23.6	24.2	25.0	25.8	25.6	26.3	27.0
	6H	22.9	23.6	23.5	24.1	24.8	26.5	27.1	27.1	27.7	28.4
	8H	23.1	23.7	23.7	24.3	25.0	27.3	27.9	27.9	28.5	29.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 671.172 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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