

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSL4-172401B-MVD(3000K).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP22030186
[TESTLAB] LCTECH 220331110001
[TESTDATE] 2022/4/12
[ISSUE DATE] 2022/4/12
[MANUFAC] Foshan Innovative Lighting Co., Ltd
[LUMCAT] LSL4-172401B-MVD(3000K)
[LUMINAIRE] LED lamp
[LAMPCAT]
[LAMP]
[LumELE] 120.06 0.14 16.59 0.9902

CHARACTERISTICS

Lumens Per Lamp	2026.98 (1 lamp)
Total Lamp Lumens	2026.98
Luminaire Lumens	2027
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	16.59
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	11099	10099	10175
55	10076	9038	9481
65	8700	8079	8787
75	6604	7031	8030
85	2800	5968	7525

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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	643.440	643.440	643.440	643.440	643.440	643.440	643.440
5	639.436	639.442	639.887	639.886	640.782	640.800	640.405
10	627.866	627.888	628.342	628.998	630.147	631.117	630.866
15	607.842	608.558	610.358	611.890	613.972	614.835	613.957
20	582.478	583.452	585.935	587.673	591.152	593.269	593.145
25	550.885	552.124	554.851	558.344	563.677	566.862	567.997
30	513.061	515.242	519.548	525.684	536.655	537.816	538.513
35	471.678	474.803	480.027	488.580	499.200	505.908	506.861
40	427.625	430.368	438.286	449.920	462.642	471.137	473.041
45	380.013	384.821	394.768	414.823	425.639	435.928	438.355
50	332.400	337.496	350.362	368.601	386.644	398.743	402.367
55	284.787	290.171	305.957	327.054	347.647	361.331	365.079
60	235.839	242.402	266.217	285.284	308.209	322.823	327.357
65	186.446	195.522	217.590	243.959	267.439	283.874	287.901
70	138.389	150.642	175.848	202.855	228.222	244.044	248.444
75	92.111	112.657	135.217	163.750	188.561	204.653	208.988
80	50.283	67.991	96.806	126.202	150.894	167.245	170.833
85	16.909	36.219	64.834	93.541	117.658	132.914	139.181
90	3.560	16.444	43.741	70.657	92.842	107.610	112.732
95	0.445	8.889	31.973	56.659	76.889	90.005	94.088
100	0.445	4.001	22.204	43.105	61.822	73.721	78.045
105	0.445	1.111	13.989	32.441	48.526	58.978	62.436
110	0.445	0.667	7.328	22.664	36.340	45.993	48.562
115	0.445	0.667	2.221	13.998	25.483	33.891	36.421
120	0.890	0.667	0.888	6.889	16.620	23.326	25.582
125	0.890	0.889	0.888	1.334	8.421	14.086	16.043
130	0.890	0.889	0.888	0.889	1.995	6.383	7.805
135	0.890	0.889	0.888	0.889	0.886	1.320	1.734
140	0.890	0.889	0.888	0.889	0.886	0.880	0.867
145	0.890	0.889	0.888	0.889	0.886	0.880	0.867
150	0.890	0.889	0.888	0.889	1.108	0.880	0.867
155	0.890	1.111	1.110	1.111	1.108	1.540	0.867
160	1.335	1.555	1.554	1.555	1.550	1.540	1.734
165	1.780	1.777	1.776	1.777	1.773	1.760	1.734
170	1.780	1.777	1.776	1.777	1.773	1.760	1.734
175	1.780	1.777	1.776	1.777	1.773	1.760	1.734
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	233.27	11.50	11.50
0-30	491.05	24.20	24.20
0-40	797.57	39.30	39.30
0-60	1406.59	69.40	69.40
0-80	1814.12	89.50	89.50
0-90	1912.06	94.30	94.30
10-90	1851.3	91.30	91.30
20-40	564.30	27.80	27.80
20-50	881.20	43.50	43.50
40-70	848.17	41.80	41.80
60-80	407.53	20.10	20.10
70-80	168.38	8.30	8.30
80-90	97.94	4.80	4.80
90-110	90.48	4.50	4.50
90-120	106.61	5.30	5.30
90-130	112.09	5.50	5.50
90-150	113.74	5.60	5.60
90-180	114.92	5.70	5.70
110-180	24.44	1.20	1.20
0-180	2026.98	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.76
10-20	172.51
20-30	257.78
30-40	306.52
40-50	316.90
50-60	292.12
60-70	239.15
70-80	168.38
80-90	97.94
90-100	57.17
100-110	33.32
110-120	16.13
120-130	5.48
130-140	1.08
140-150	0.56
150-160	0.54
160-170	0.48
170-180	0.16

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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	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	59	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

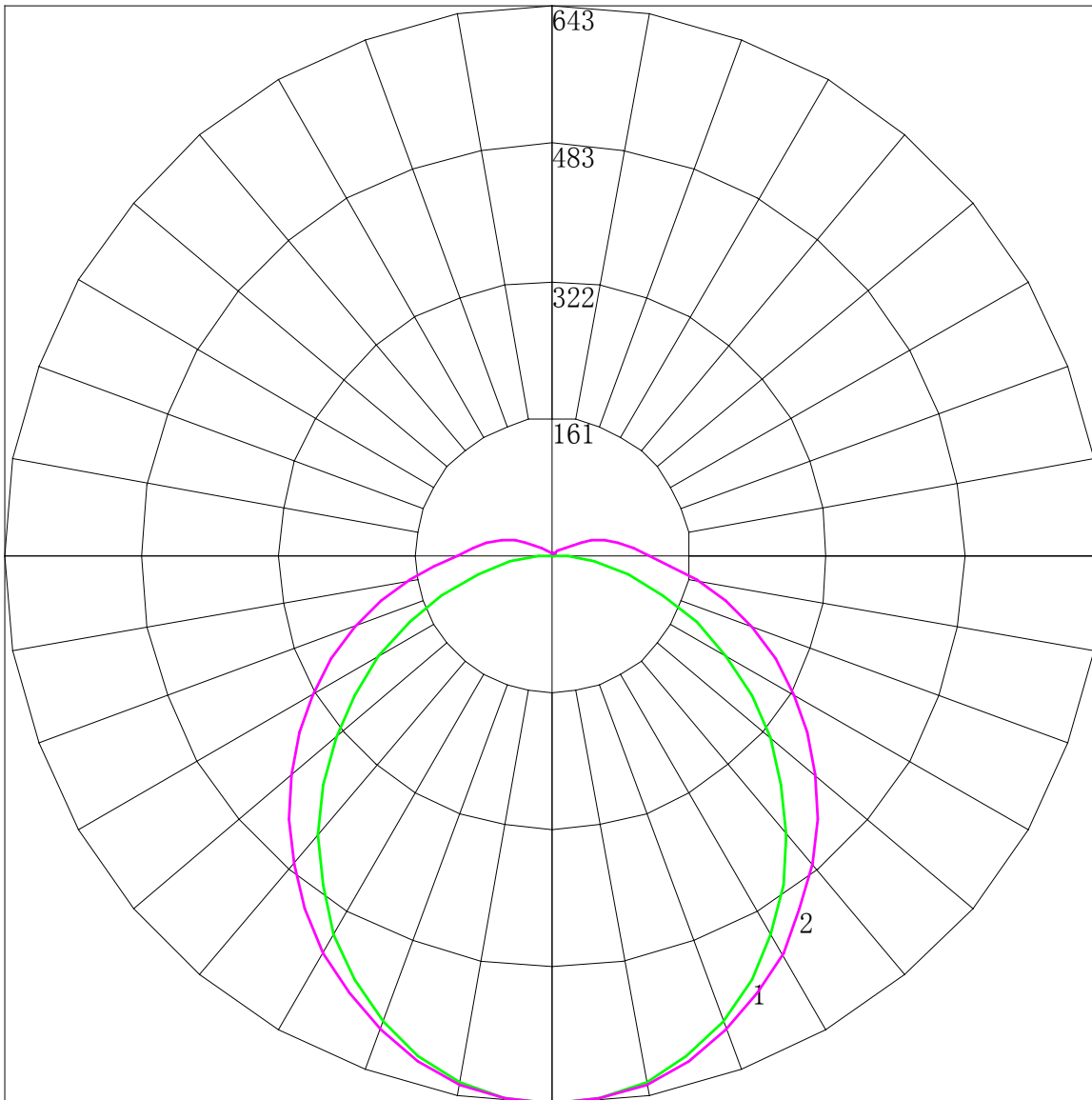
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UGR TABLE - CORRECTED

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	18.1	19.7	18.6	20.1	20.6	20.4	21.9	20.8	22.4	22.8
	3H	19.5	20.9	20.0	21.4	21.9	22.8	24.2	23.2	24.6	25.1
	4H	20.0	21.3	20.5	21.8	22.3	23.9	25.2	24.4	25.7	26.2
	6H	20.3	21.5	20.8	22.0	22.5	25.0	26.2	25.5	26.7	27.2
	8H	20.3	21.5	20.8	22.0	22.5	25.5	26.7	26.0	27.2	27.7
	12H	20.3	21.5	20.8	22.0	22.5	26.1	27.2	26.6	27.7	28.3
4H	2H	19.0	20.4	19.5	20.8	21.3	20.8	22.1	21.3	22.6	23.1
	3H	20.7	21.8	21.2	22.3	22.9	23.4	24.6	23.9	25.1	25.6
	4H	21.3	22.3	21.8	22.9	23.4	24.7	25.7	25.2	26.2	26.8
	6H	21.7	22.6	22.2	23.1	23.7	26.0	26.9	26.5	27.4	28.0
	8H	21.7	22.6	22.3	23.2	23.8	26.6	27.5	27.2	28.0	28.6
	12H	21.8	22.6	22.4	23.1	23.7	27.3	28.1	27.9	28.7	29.3
8H	4H	22.0	22.8	22.5	23.4	24.0	24.9	25.7	25.4	26.3	26.9
	6H	22.5	23.2	23.1	23.8	24.4	26.3	27.1	26.9	27.7	28.3
	8H	22.7	23.3	23.3	23.9	24.6	27.1	27.8	27.7	28.4	29.0
	12H	22.8	23.4	23.4	23.9	24.6	28.0	28.6	28.6	29.2	29.9
12H	4H	22.2	22.9	22.7	23.5	24.1	24.9	25.7	25.5	26.3	26.9
	6H	22.8	23.5	23.4	24.0	24.7	26.4	27.0	27.0	27.6	28.3
	8H	23.0	23.6	23.6	24.2	24.9	27.2	27.8	27.8	28.4	29.1

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 643.44 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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