

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : LSL4-172401B-MVD(3500K).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(3500K)  
[LUMINAIRE] LED lamp  
[LAMPCAT]  
[LAMP]  
[LumELE] 120.09 0.136 16.13 0.9898

**CHARACTERISTICS**

Lumens Per Lamp	2134.3 (1 lamp)
Total Lamp Lumens	2134.3
Luminaire Lumens	2134
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	16.13
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	11703	10622	10714
55	10616	9522	9992
65	9161	8498	9241
75	6959	7412	8467
85	2949	6279	7927

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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>
<b>0</b>	677.589	677.589	677.589	677.589	677.589	677.589	677.589
<b>5</b>	673.582	673.588	674.034	673.813	674.268	674.071	674.119
<b>10</b>	661.117	661.139	661.594	661.816	662.754	663.520	665.009
<b>15</b>	640.193	641.576	642.932	644.265	645.924	646.813	646.790
<b>20</b>	613.926	615.121	617.606	619.161	622.010	623.506	625.100
<b>25</b>	580.536	581.998	584.948	588.059	593.003	596.685	597.771
<b>30</b>	540.914	542.649	547.403	552.958	564.226	565.686	566.971
<b>35</b>	496.394	499.966	505.859	514.747	525.023	531.830	533.569
<b>40</b>	450.984	453.727	461.427	473.648	487.159	495.550	497.998
<b>45</b>	400.677	405.487	416.329	436.335	447.743	458.616	461.559
<b>50</b>	350.370	355.468	368.787	388.115	407.221	419.704	423.385
<b>55</b>	300.062	305.894	322.133	344.573	365.812	380.128	384.777
<b>60</b>	248.865	254.986	280.593	300.141	323.740	339.457	344.868
<b>65</b>	196.332	206.080	229.270	256.599	281.004	298.126	302.790
<b>70</b>	146.024	158.507	185.282	213.944	240.261	256.574	261.579
<b>75</b>	97.053	118.722	142.406	172.622	198.410	215.459	220.368
<b>80</b>	52.088	72.031	102.195	132.633	158.994	175.447	180.025
<b>85</b>	17.808	38.240	68.427	98.420	123.343	140.268	146.623
<b>90</b>	4.007	17.564	46.433	74.650	97.878	112.788	118.860
<b>95</b>	0.445	9.561	33.770	59.320	81.048	94.541	99.339
<b>100</b>	0.445	4.003	23.106	45.990	64.884	77.832	81.554
<b>105</b>	0.445	1.334	15.330	34.215	50.933	62.002	65.937
<b>110</b>	0.890	0.667	7.998	23.552	38.753	47.931	51.188
<b>115</b>	0.890	0.667	2.222	15.109	27.016	35.619	38.608
<b>120</b>	0.890	0.889	0.889	7.333	17.273	24.405	26.895
<b>125</b>	0.890	0.889	0.889	1.778	9.081	14.950	16.918
<b>130</b>	0.890	0.889	0.889	0.889	1.994	6.596	8.676
<b>135</b>	0.890	0.889	0.889	0.889	0.886	1.319	2.169
<b>140</b>	0.890	0.889	0.889	0.889	0.886	0.879	0.868
<b>145</b>	0.890	0.889	0.889	1.111	0.886	1.100	0.868
<b>150</b>	0.890	0.889	0.889	1.111	1.108	1.319	0.868
<b>155</b>	1.336	1.334	1.555	1.555	1.549	1.538	1.735
<b>160</b>	1.781	1.778	1.777	1.777	1.771	1.759	1.735
<b>165</b>	1.781	1.778	1.777	1.777	1.771	1.759	1.735
<b>170</b>	1.781	1.778	1.777	1.777	1.771	1.759	1.735
<b>175</b>	1.781	1.778	1.777	1.777	1.771	1.759	1.735
<b>180</b>	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	245.60	11.50	11.50
0-30	517.05	24.20	24.20
0-40	839.73	39.30	39.30
0-60	1480.97	69.40	69.40
0-80	1909.93	89.50	89.50
0-90	2013.07	94.30	94.30
10-90	1949.11	91.30	91.30
20-40	594.13	27.80	27.80
20-50	927.81	43.50	43.50
40-70	892.89	41.80	41.80
60-80	428.96	20.10	20.10
70-80	177.31	8.30	8.30
80-90	103.13	4.80	4.80
90-110	95.34	4.50	4.50
90-120	112.38	5.30	5.30
90-130	118.19	5.50	5.50
90-150	119.90	5.60	5.60
90-180	121.23	5.70	5.70
110-180	25.89	1.20	1.20
0-180	2134.3	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.96
10-20	181.64
20-30	271.45
30-40	322.68
40-50	333.68
50-60	307.56
60-70	251.65
70-80	177.31
80-90	103.13
90-100	60.21
100-110	35.13
110-120	17.04
120-130	5.80
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	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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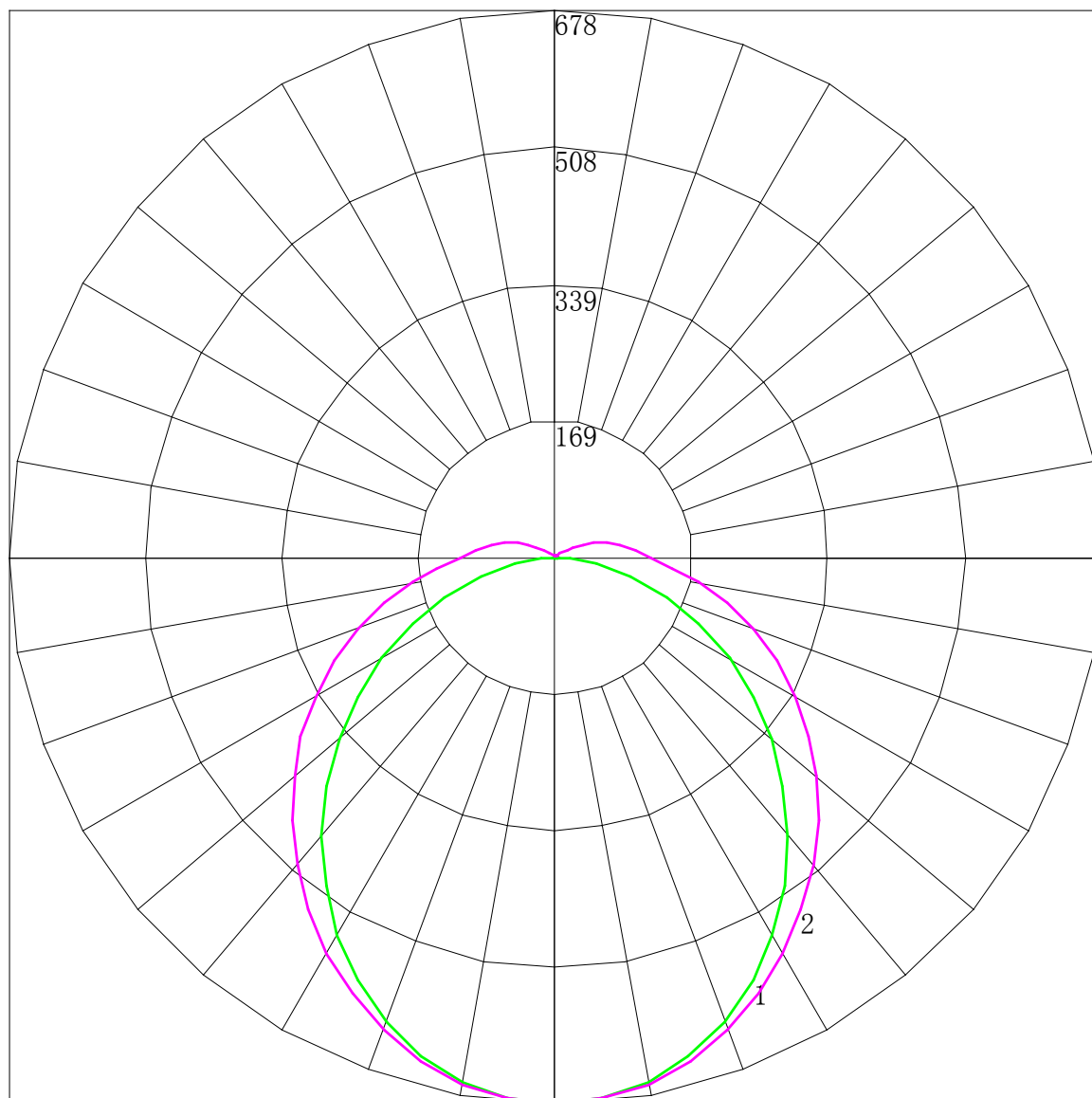
**UGR TABLE - CORRECTED**

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	18.2	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	24.0	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 = 677.589 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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