

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SM24802.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LCZP22060448  
[TESTLAB] LCTECH 220709104003  
[TESTDATE] 2022/7/12  
[ISSUEDATE] 2022/7/12  
[MANUFAC] Maxim  
[LUMCAT] SM24802  
[LUMINAIRE] LED Lamp  
[LAMPCAT]  
[LAMP]  
[LumELE] 120.05 0.121 14.34 0.9911

**CHARACTERISTICS**

Lumens Per Lamp	465.22 (1 lamp)
Total Lamp Lumens	465.22
Luminaire Lumens	465
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	14.34
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.44 m
Luminous Width (90-270)	0.14 m
Luminous Height	0.03 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	688	626	624
55	650	575	597
65	601	547	611
75	525	706	1374
85	457	3252	5593

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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>	48.258	48.258	48.258	48.258	48.258	48.258	48.258
<b>5</b>	48.035	47.970	48.058	47.970	48.059	48.016	48.039
<b>10</b>	47.412	47.304	47.393	47.327	47.373	47.355	47.337
<b>15</b>	46.299	46.218	46.218	46.264	46.312	46.275	46.284
<b>20</b>	44.741	44.710	44.710	44.735	44.764	44.798	44.792
<b>25</b>	42.916	42.780	42.802	42.874	42.972	42.925	42.862
<b>30</b>	40.601	40.540	40.607	40.614	40.938	40.656	40.712
<b>35</b>	38.063	37.990	37.968	38.088	38.195	38.254	38.299
<b>40</b>	35.125	35.085	35.129	35.318	35.497	35.698	35.799
<b>45</b>	32.009	32.024	32.091	32.704	32.710	32.899	33.035
<b>50</b>	28.625	28.653	28.808	29.247	29.791	30.123	30.315
<b>55</b>	25.197	25.194	25.482	26.101	26.871	27.390	27.551
<b>60</b>	21.591	21.667	22.554	23.088	24.041	24.790	25.050
<b>65</b>	17.941	18.141	19.117	20.340	21.696	22.718	23.208
<b>70</b>	14.246	14.792	16.611	18.855	21.164	22.167	22.418
<b>75</b>	10.506	12.308	15.569	19.653	27.302	32.681	39.440
<b>80</b>	7.702	11.089	21.224	38.549	54.533	69.526	73.308
<b>85</b>	4.363	15.857	32.778	57.349	83.336	101.670	103.623
<b>90</b>	4.407	15.613	44.665	72.764	94.238	108.215	113.713
<b>95</b>	4.585	17.587	39.077	63.858	86.792	102.956	107.835
<b>100</b>	6.811	14.593	32.335	53.575	72.008	85.826	91.734
<b>105</b>	7.657	14.482	29.075	45.377	59.469	69.255	73.615
<b>110</b>	8.503	15.103	28.232	43.317	55.445	62.912	66.114
<b>115</b>	9.438	15.857	27.278	41.523	53.035	60.157	62.648
<b>120</b>	10.239	16.478	27.433	39.861	50.360	57.116	59.138
<b>125</b>	10.996	17.232	26.901	37.246	47.772	54.009	55.672
<b>130</b>	12.020	17.875	26.746	36.294	44.321	50.396	52.382
<b>135</b>	12.866	18.274	26.458	34.543	42.309	47.156	49.311
<b>140</b>	13.667	18.429	25.571	33.147	39.125	44.160	45.933
<b>145</b>	14.424	18.252	25.060	31.330	36.891	40.459	41.458
<b>150</b>	14.869	17.897	24.018	29.225	34.080	36.932	37.904
<b>155</b>	14.602	17.454	22.798	27.297	31.162	33.494	34.921
<b>160</b>	13.934	16.700	21.423	25.303	28.265	30.123	31.061
<b>165</b>	12.999	15.347	19.139	22.866	25.324	27.081	27.200
<b>170</b>	11.352	12.996	15.391	18.169	20.748	22.831	23.734
<b>175</b>	14.023	14.615	15.058	15.531	15.902	17.102	17.548
<b>180</b>	7.913	7.913	7.913	7.913	7.913	7.913	7.913

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	17.62	3.80	3.80
0-30	37.38	8.00	8.00
0-40	61.24	13.20	13.20
0-60	109.82	23.60	23.60
0-80	157.39	33.80	33.80
0-90	217.42	46.70	46.70
10-90	212.86	45.80	45.80
20-40	43.62	9.40	9.40
20-50	68.68	14.80	14.80
40-70	69.10	14.90	14.90
60-80	47.57	10.20	10.20
70-80	27.05	5.80	5.80
80-90	60.03	12.90	12.90
90-110	112.30	24.10	24.10
90-120	151.03	32.50	32.50
90-130	183.45	39.40	39.40
90-150	228.06	49.00	49.00
90-180	247.79	53.30	53.30
110-180	135.49	29.10	29.10
0-180	465.22	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	4.56
10-20	13.05
20-30	19.76
30-40	23.86
40-50	25.06
50-60	23.52
60-70	20.51
70-80	27.05
80-90	60.03
90-100	65.26
100-110	47.05
110-120	38.73
120-130	32.42
130-140	25.77
140-150	18.85
150-160	12.13
160-170	6.11
170-180	1.48

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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
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	92	86	80	75	84	78	73	68	64	60	56	51	48	45	39	37	35	29
2	83	73	65	59	75	67	60	54	55	49	45	43	39	36	33	30	27	22
3	75	64	55	48	68	58	50	44	48	42	37	38	33	30	29	25	23	18
4	69	56	47	40	62	51	43	37	42	36	31	33	29	25	25	22	19	15
5	63	50	41	34	57	46	38	32	38	31	26	30	25	21	23	19	16	13
6	58	45	36	29	52	41	33	27	34	28	23	27	22	19	21	17	14	11
7	53	40	32	26	48	37	29	24	31	24	20	25	20	16	19	15	13	10
8	50	36	28	23	45	33	26	21	28	22	18	22	18	14	17	14	11	9
9	46	33	25	20	42	31	23	19	25	20	16	21	16	13	16	13	10	8
10	43	30	23	18	39	28	21	17	23	18	14	19	15	12	15	12	9	7

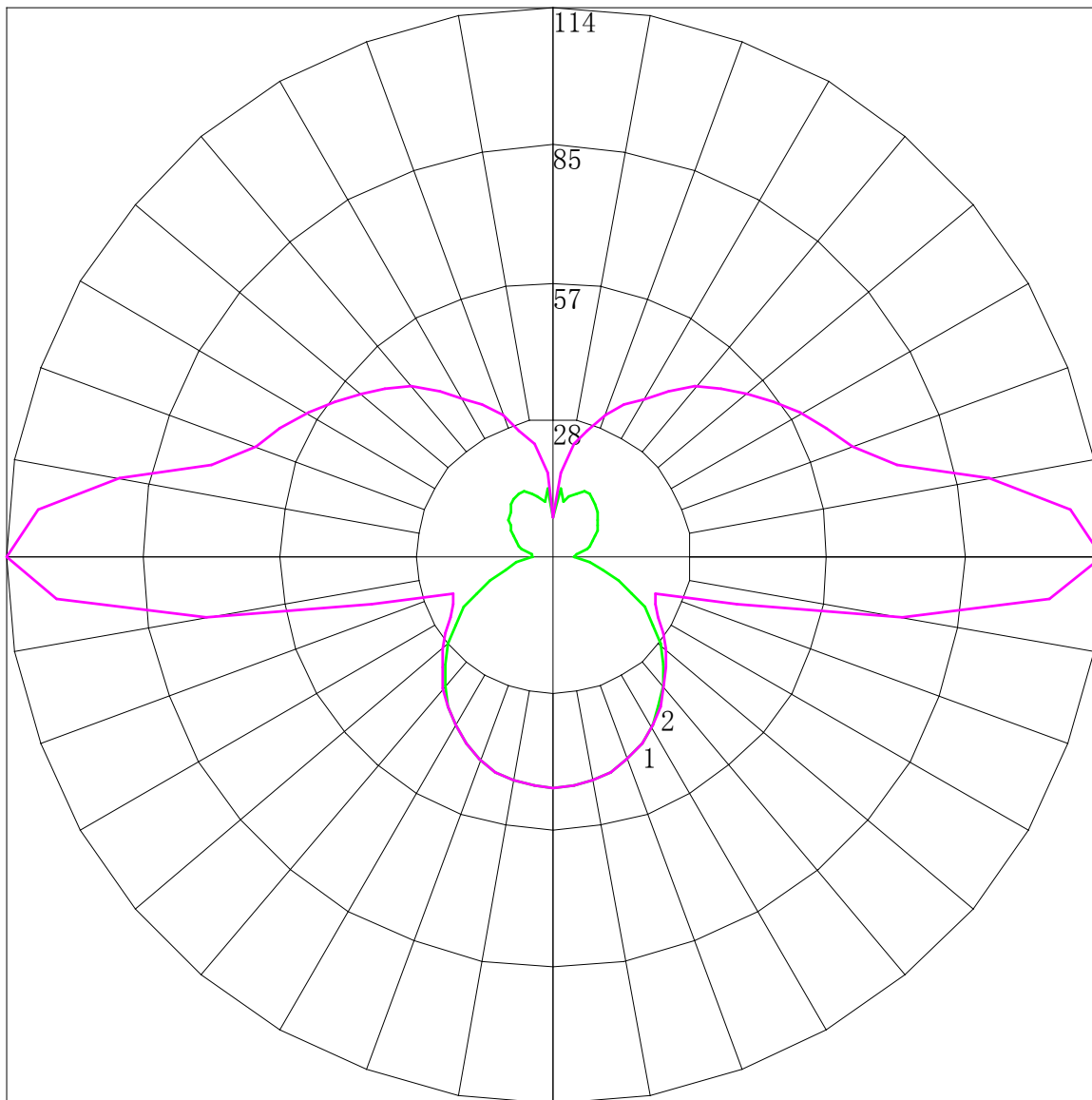
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**UGR TABLE - CORRECTED**

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	4.2	5.2	5.2	6.1	7.4	5.3	6.2	6.2	7.2	8.5
	3H	5.9	6.8	6.9	7.8	9.1	8.1	9.0	9.1	10.0	11.3
	4H	6.6	7.5	7.6	8.5	9.8	11.1	11.9	12.1	12.9	14.3
	6H	7.2	8.0	8.2	9.0	10.4	16.5	17.3	17.5	18.3	19.6
	8H	7.5	8.3	8.5	9.3	10.6	19.1	19.8	20.1	20.8	22.2
	12H	7.8	8.5	8.8	9.5	10.9	21.6	22.3	22.6	23.3	24.7
4H	2H	4.9	5.8	5.9	6.8	8.1	5.8	6.6	6.8	7.6	8.9
	3H	7.0	7.7	8.0	8.7	10.1	9.0	9.7	10.0	10.7	12.1
	4H	7.9	8.6	8.9	9.6	11.0	12.2	12.9	13.2	13.9	15.3
	6H	8.8	9.4	9.8	10.5	11.8	17.9	18.5	18.9	19.6	20.9
	8H	9.3	9.9	10.3	10.9	12.3	20.6	21.2	21.7	22.3	23.6
	12H	9.7	10.2	10.7	11.3	12.7	23.3	23.8	24.3	24.8	26.2
8H	4H	9.6	10.2	10.6	11.2	12.6	12.8	13.4	13.8	14.4	15.8
	6H	11.2	11.7	12.3	12.8	14.2	18.7	19.2	19.7	20.3	21.7
	8H	12.0	12.5	13.1	13.6	15.0	21.6	22.1	22.7	23.2	24.6
	12H	12.8	13.2	13.8	14.2	15.7	24.5	24.9	25.6	26.0	27.4
12H	4H	11.2	11.7	12.2	12.8	14.2	12.9	13.4	13.9	14.5	15.9
	6H	13.2	13.6	14.2	14.7	16.1	18.9	19.3	19.9	20.4	21.8
	8H	14.2	14.6	15.2	15.7	17.1	21.9	22.3	22.9	23.4	24.8

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 113.713 Located At Horizontal Angle = 90, Vertical Angle = 90

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

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