



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CX-3-08-L15-830-0-D-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19927.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 2023-07-14

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] CONTINUOUS COVE LUMINAIRE @ 0 DEGREE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] CX-3-08-L15-830-0-D-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAYS

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] INDOOR, CLASSROOM, EDUCATIONAL, ATRIUM

[\_SEARCH\_MOUNTING] COVE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	48.4
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.22 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	2.887	4.330	15.877	92.376	108.254	111.140	101.037	101.037	103.924
<b>100</b>	73.612	109.697	155.885	235.271	268.469	249.705	232.385	235.271	243.932
<b>105</b>	295.893	333.421	342.082	389.713	420.024	424.354	398.373	394.043	398.373
<b>110</b>	499.410	496.523	509.514	545.598	552.815	603.334	574.466	560.032	547.042
<b>115</b>	630.758	646.635	666.842	679.833	694.267	767.879	726.021	714.474	707.257
<b>120</b>	780.870	795.303	821.284	834.275	853.039	919.434	883.350	880.463	860.256
<b>125</b>	929.538	951.189	964.179	994.490	1016.141	1047.895	1043.565	1037.792	1010.367
<b>130</b>	1075.320	1120.064	1115.734	1148.932	1166.253	1196.564	1198.007	1195.120	1157.592
<b>135</b>	1205.224	1264.403	1251.412	1293.270	1314.921	1349.562	1332.242	1346.675	1306.261
<b>140</b>	1336.572	1388.534	1391.420	1421.731	1446.269	1489.570	1470.806	1463.589	1446.269
<b>145</b>	1454.929	1493.900	1511.221	1534.315	1563.183	1607.928	1590.607	1567.513	1574.730
<b>150</b>	1563.183	1613.701	1622.361	1642.569	1674.323	1734.945	1706.078	1669.993	1697.417
<b>155</b>	1681.540	1726.285	1730.615	1740.719	1779.690	1835.982	1807.114	1766.700	1791.237
<b>160</b>	1773.917	1821.548	1812.888	1818.661	1860.519	1908.151	1885.057	1838.869	1854.746
<b>165</b>	1837.425	1899.491	1892.274	1885.057	1922.585	1961.556	1938.462	1892.274	1900.934
<b>170</b>	1879.283	1937.019	1937.019	1932.689	1967.330	1997.641	1974.547	1915.368	1922.585
<b>175</b>	1885.057	1955.783	1965.886	1963.000	1997.641	2022.178	1994.754	1918.255	1921.141
<b>180</b>	1960.113	1960.113	1960.113	1960.113	1960.113	1960.113	1960.113	1960.113	1960.113

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	495.23	N.A.	8.90
90-120	1185.51	N.A.	21.20
90-130	2083.8	N.A.	37.30
90-150	4056.71	N.A.	72.50
90-180	5593.73	N.A.	100.00
110-180	5098.5	N.A.	91.10
0-180	5593.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	95.95
100-110	399.28
110-120	690.28
120-130	898.29
130-140	1002.92
140-150	969.99
150-160	812.39
160-170	537.82
170-180	186.81

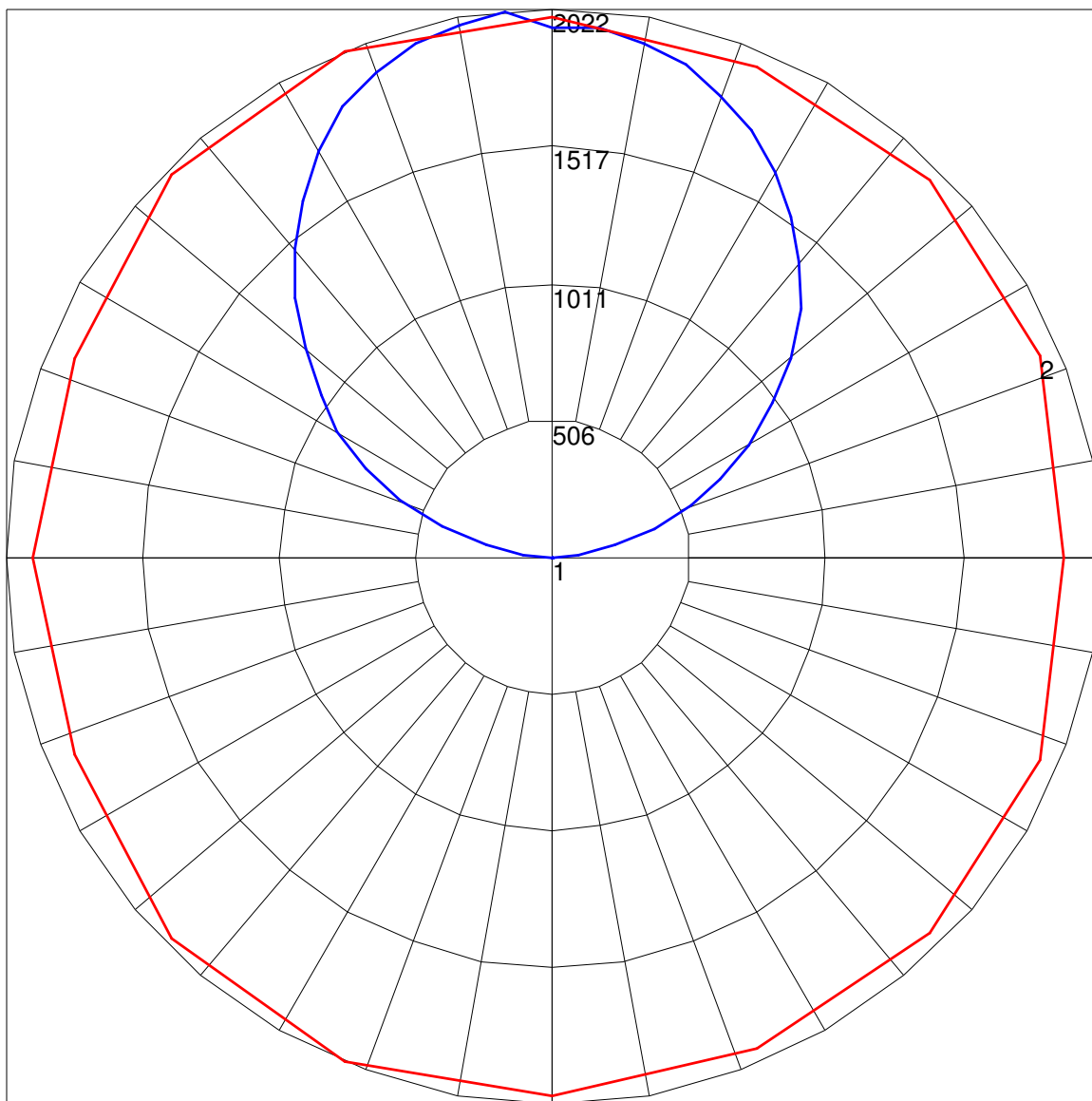
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 2022.178 Located At Horizontal Angle = 112.5, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)