



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L15-835-25-D-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 19929.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 2023-07-17  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
[LUMINAIRE] CONTINUOUS COVE LUMINAIRE @ 25DEG  
[MORE] WITH FROSTED ACRYLIC LENS  
[LUMCAT] CX-3-08-L15-835-25-D-DIM-UNV  
[LAMPCAT] 22 INCH HLM LED ARRAYS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SOURCE\_APPLICATION] INDOOR, CLASSROOM, EDUCATIONAL, ATRIUM  
[ \_SEARCH\_MOUNTING] COVE

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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 w/Sides
Luminous Length (0-180)	0.22 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.08 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>	181.031	189.720	179.583	244.754	104.274	30.413	27.517	15.931	8.689
<b>100</b>	392.475	415.647	431.578	427.233	246.202	99.929	56.482	55.033	46.344
<b>105</b>	616.953	677.780	713.986	583.644	408.406	263.581	99.929	82.550	81.102
<b>110</b>	866.052	942.809	922.533	732.813	559.023	446.060	223.030	127.446	94.136
<b>115</b>	1122.391	1180.321	1099.219	887.775	687.917	541.644	388.130	263.581	152.066
<b>120</b>	1345.421	1359.904	1251.285	1036.945	826.949	669.090	531.507	419.992	295.442
<b>125</b>	1507.625	1493.143	1394.662	1170.184	954.395	808.122	735.709	574.954	457.646
<b>130</b>	1636.519	1620.588	1507.625	1293.285	1096.323	960.188	870.396	744.399	622.746
<b>135</b>	1737.896	1729.207	1597.416	1409.144	1239.699	1113.702	977.567	957.291	782.053
<b>140</b>	1818.998	1814.653	1697.345	1517.763	1390.317	1241.148	1109.357	1021.014	1009.428
<b>145</b>	1871.135	1875.480	1766.861	1611.899	1503.280	1358.456	1244.044	1129.633	1068.806
<b>150</b>	1910.238	1920.375	1830.584	1693.001	1606.106	1469.971	1368.593	1255.630	1202.045
<b>155</b>	1927.617	1949.340	1881.273	1758.172	1695.897	1584.382	1475.764	1377.283	1329.491
<b>160</b>	1924.720	1960.926	1916.031	1824.791	1766.861	1693.001	1591.623	1494.591	1446.799
<b>165</b>	1908.789	1955.133	1920.375	1862.446	1824.791	1778.447	1698.794	1604.658	1551.072
<b>170</b>	1874.032	1926.168	1911.686	1874.032	1863.894	1847.963	1788.585	1701.690	1643.760
<b>175</b>	1801.619	1872.583	1888.514	1863.894	1887.066	1892.859	1862.446	1771.206	1736.448
<b>180</b>	1840.722	1840.722	1840.722	1840.722	1840.722	1840.722	1840.722	1840.722	1840.722

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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	547.10	N.A.	9.90
90-120	1250.34	N.A.	22.60
90-130	2155.79	N.A.	38.90
90-150	4082.9	N.A.	73.80
90-180	5535.67	N.A.	100.00
110-180	4988.57	N.A.	90.10
0-180	5535.67	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	126.77
100-110	420.32
110-120	703.24
120-130	905.45
130-140	990.07
140-150	937.04
150-160	769.80
160-170	507.01
170-180	175.96

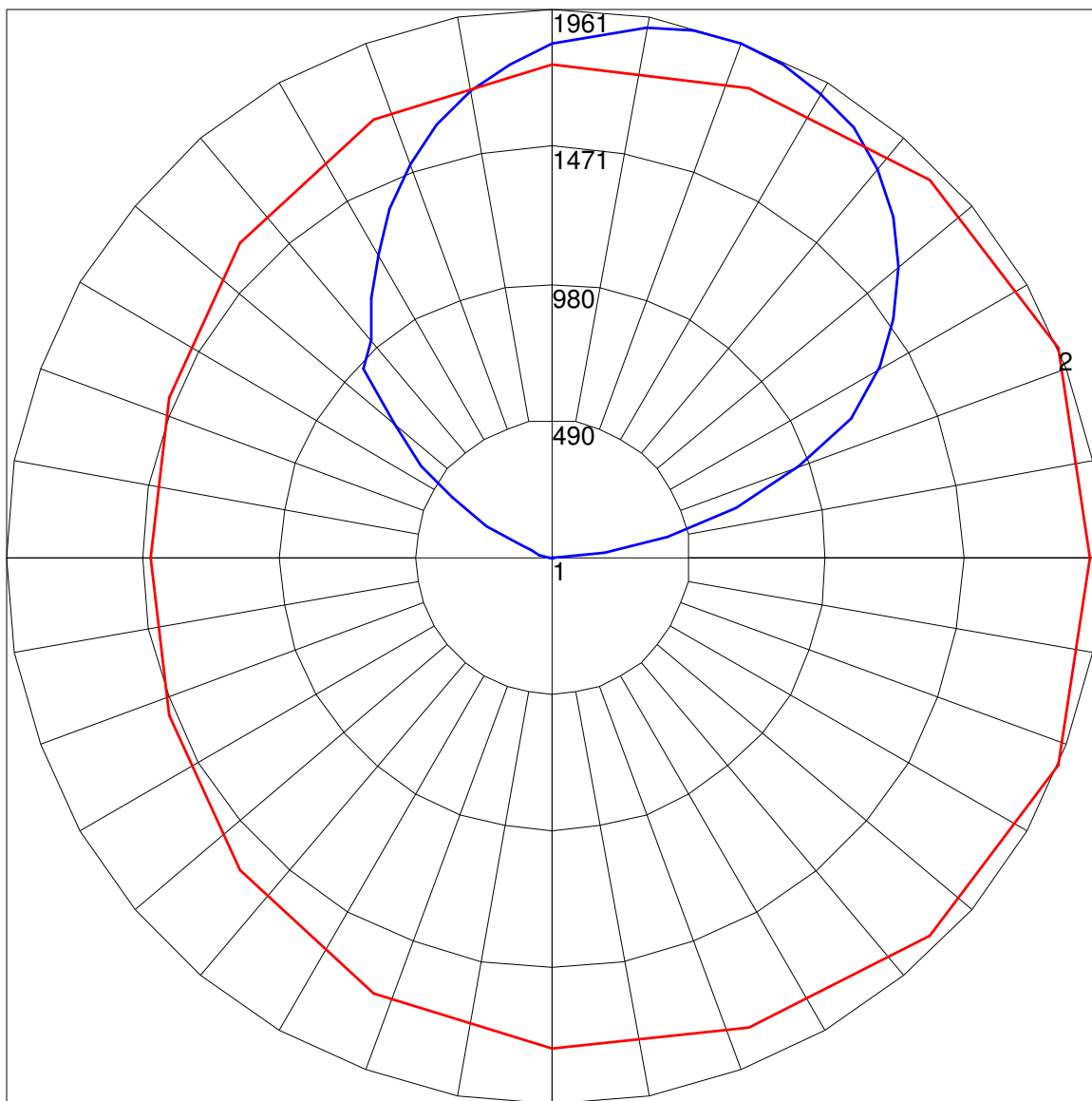
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1960.926 Located At Horizontal Angle = 22.5, Vertical Angle = 160  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (160) (Through Max. Cd.)