



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L15-830-25-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-L15-830-25-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	5480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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>	179.221	187.823	177.787	242.306	103.231	30.109	27.242	15.771	8.603
<b>100</b>	388.550	411.491	427.262	422.961	243.740	98.930	55.917	54.483	45.880
<b>105</b>	610.784	671.002	706.846	577.807	404.322	260.945	98.930	81.725	80.291
<b>110</b>	857.392	933.381	913.308	725.485	553.433	441.600	220.800	126.171	93.195
<b>115</b>	1111.168	1168.519	1088.228	878.898	681.038	536.228	384.249	260.945	150.545
<b>120</b>	1331.968	1346.305	1238.773	1026.576	818.680	662.399	526.192	415.792	292.488
<b>125</b>	1492.549	1478.212	1380.716	1158.482	944.851	800.041	728.353	569.205	453.070
<b>130</b>	1620.155	1604.383	1492.549	1280.352	1085.360	950.586	861.693	736.955	616.519
<b>135</b>	1720.518	1711.915	1581.443	1395.053	1227.303	1102.565	967.791	947.719	774.233
<b>140</b>	1800.809	1796.508	1680.373	1502.586	1376.414	1228.737	1098.264	1010.804	999.334
<b>145</b>	1852.424	1856.726	1749.193	1595.781	1488.248	1344.872	1231.604	1118.337	1058.119
<b>150</b>	1891.136	1901.172	1812.279	1676.071	1590.045	1455.272	1354.908	1243.074	1190.025
<b>155</b>	1908.341	1929.848	1862.461	1740.591	1678.939	1568.539	1461.007	1363.511	1316.196
<b>160</b>	1905.474	1941.318	1896.871	1806.544	1749.193	1676.071	1575.708	1479.646	1432.331
<b>165</b>	1889.702	1935.583	1901.172	1843.822	1806.544	1760.663	1681.806	1588.612	1535.562
<b>170</b>	1855.292	1906.908	1892.570	1855.292	1845.256	1829.484	1770.700	1684.674	1627.323
<b>175</b>	1783.604	1853.858	1869.630	1845.256	1868.196	1873.931	1843.822	1753.495	1719.084
<b>180</b>	1822.315	1822.315	1822.315	1822.315	1822.315	1822.315	1822.315	1822.315	1822.315

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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	541.63	N.A.	9.90
90-120	1237.83	N.A.	22.60
90-130	2134.23	N.A.	38.90
90-150	4042.07	N.A.	73.80
90-180	5480.31	N.A.	100.00
110-180	4938.69	N.A.	90.10
0-180	5480.31	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	125.51
100-110	416.12
110-120	696.21
120-130	896.40
130-140	980.17
140-150	927.67
150-160	762.10
160-170	501.94
170-180	174.20

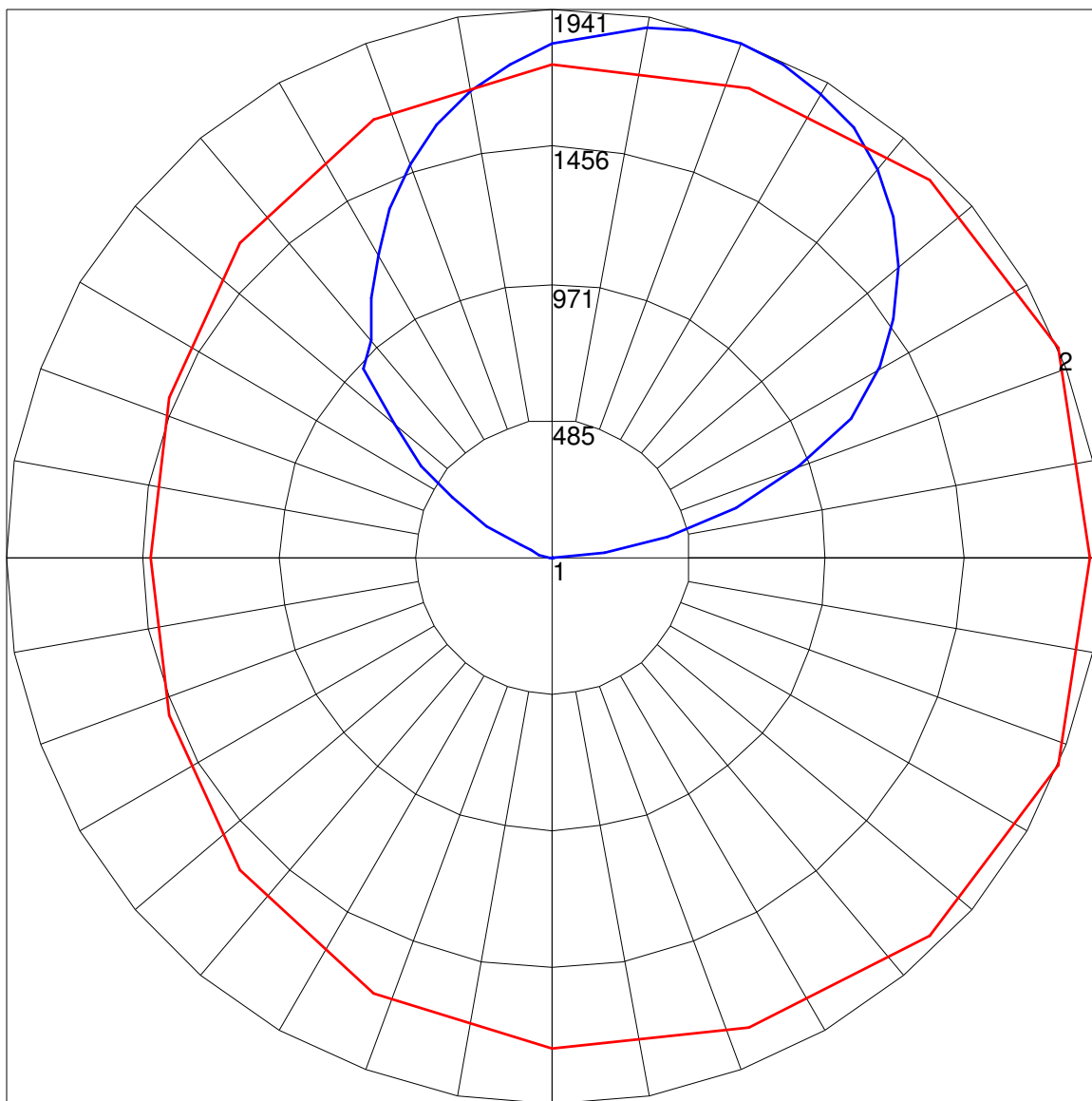
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1941.318 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.)