



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L10-830-25-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-L10-830-25-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	3655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	29.9
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>	119.528	125.265	118.572	161.602	68.848	20.081	18.168	10.518	5.737
<b>100</b>	259.136	274.436	284.954	282.086	162.558	65.979	37.293	36.336	30.599
<b>105</b>	407.351	447.512	471.418	385.358	269.655	174.033	65.979	54.505	53.548
<b>110</b>	571.821	622.501	609.114	483.849	369.102	294.517	147.258	84.148	62.154
<b>115</b>	741.073	779.322	725.773	586.165	454.206	357.627	256.268	174.033	100.403
<b>120</b>	888.331	897.893	826.177	684.656	546.003	441.775	350.934	277.305	195.069
<b>125</b>	995.428	985.866	920.843	772.628	630.151	533.572	485.761	379.620	302.166
<b>130</b>	1080.532	1070.013	995.428	853.907	723.861	633.976	574.690	491.499	411.176
<b>135</b>	1147.467	1141.730	1054.714	930.405	818.527	735.335	645.450	632.063	516.360
<b>140</b>	1201.016	1198.147	1120.693	1002.122	917.974	819.483	732.467	674.137	666.487
<b>145</b>	1235.440	1238.309	1166.592	1064.276	992.559	896.937	821.395	745.854	705.692
<b>150</b>	1261.258	1267.952	1208.666	1117.825	1060.451	970.566	903.631	829.045	793.665
<b>155</b>	1272.733	1287.076	1242.134	1160.855	1119.737	1046.108	974.391	909.368	877.813
<b>160</b>	1270.820	1294.726	1265.083	1204.841	1166.592	1117.825	1050.889	986.822	955.267
<b>165</b>	1260.302	1290.901	1267.952	1229.703	1204.841	1174.242	1121.649	1059.495	1024.115
<b>170</b>	1237.352	1271.776	1262.214	1237.352	1230.659	1220.140	1180.935	1123.562	1085.313
<b>175</b>	1189.541	1236.396	1246.915	1230.659	1245.958	1249.783	1229.703	1169.461	1146.511
<b>180</b>	1215.359	1215.359	1215.359	1215.359	1215.359	1215.359	1215.359	1215.359	1215.359

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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	361.23	N.A.	9.90
90-120	825.55	N.A.	22.60
90-130	1423.38	N.A.	38.90
90-150	2695.79	N.A.	73.80
90-180	3654.99	N.A.	100.00
110-180	3293.76	N.A.	90.10
0-180	3654.99	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	83.70
100-110	277.52
110-120	464.32
120-130	597.83
130-140	653.71
140-150	618.69
150-160	508.27
160-170	334.76
170-180	116.18

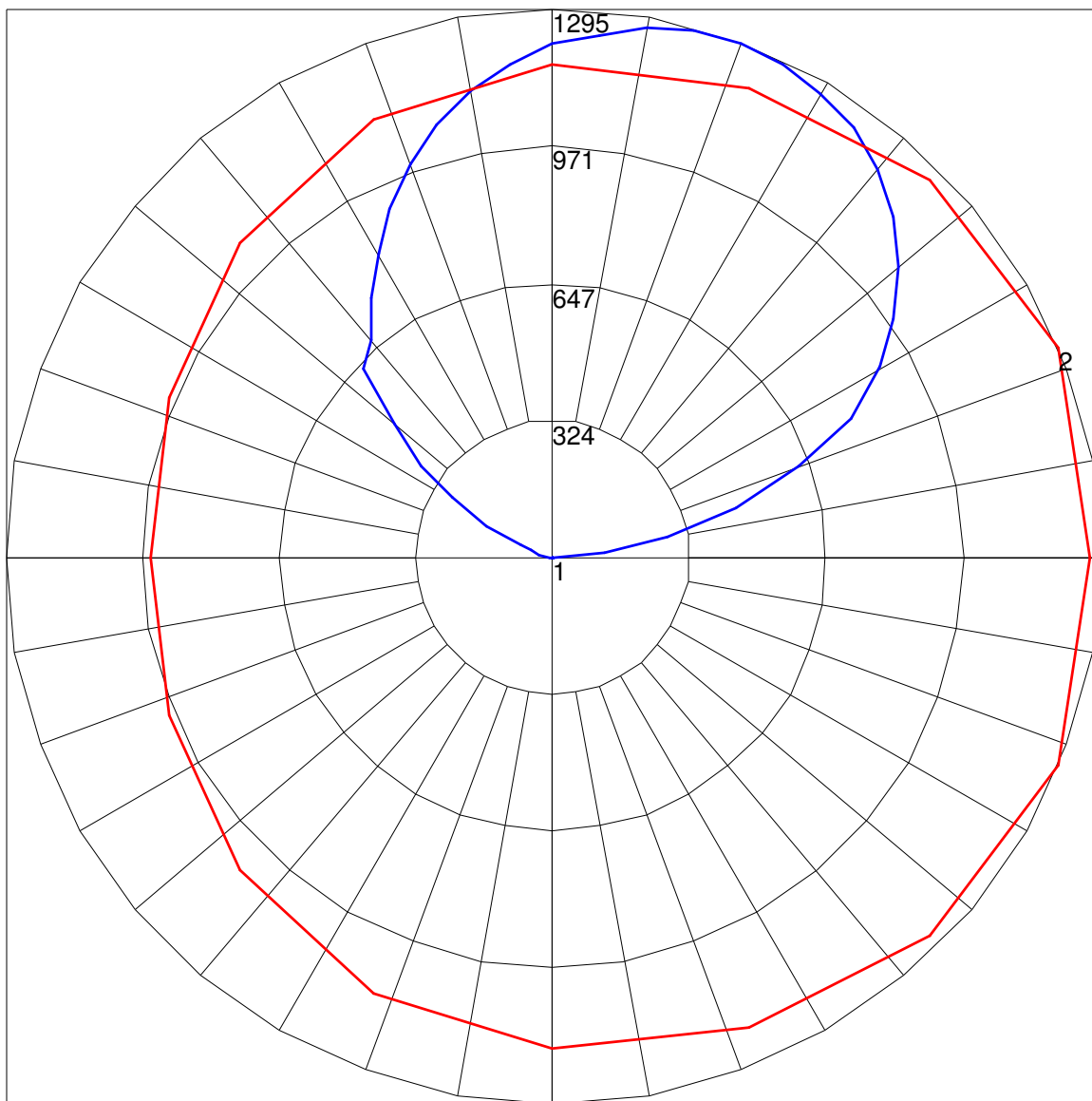
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 1294.726 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.)