



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CX-3-08-L10-835-0-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-L10-835-0-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	3770
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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
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>	1.946	2.918	10.701	62.258	72.958	74.904	68.094	68.094	70.040
<b>100</b>	49.611	73.931	105.060	158.562	180.936	168.290	156.617	158.562	164.399
<b>105</b>	199.419	224.711	230.547	262.649	283.077	285.996	268.486	265.567	268.486
<b>110</b>	336.580	334.634	343.389	367.709	372.573	406.620	387.164	377.436	368.681
<b>115</b>	425.102	435.803	449.422	458.177	467.904	517.516	489.305	481.523	476.659
<b>120</b>	526.271	535.999	553.509	562.263	574.910	619.657	595.338	593.392	579.773
<b>125</b>	626.467	641.058	649.813	670.241	684.833	706.234	703.316	699.425	680.942
<b>130</b>	724.717	754.873	751.954	774.328	786.002	806.430	807.403	805.457	780.165
<b>135</b>	812.266	852.150	843.395	871.606	886.197	909.544	897.871	907.598	880.361
<b>140</b>	900.789	935.809	937.754	958.183	974.720	1003.903	991.257	986.393	974.720
<b>145</b>	980.556	1006.821	1018.495	1034.059	1053.514	1083.670	1071.997	1056.433	1061.297
<b>150</b>	1053.514	1087.562	1093.398	1107.017	1128.418	1169.275	1149.819	1125.500	1143.982
<b>155</b>	1133.282	1163.438	1166.356	1173.166	1199.431	1237.369	1217.913	1190.676	1207.213
<b>160</b>	1195.540	1227.641	1221.804	1225.696	1253.906	1286.008	1270.443	1239.314	1250.015
<b>165</b>	1238.342	1280.171	1275.307	1270.443	1295.735	1322.000	1306.436	1275.307	1281.144
<b>170</b>	1266.552	1305.463	1305.463	1302.545	1325.891	1346.320	1330.755	1290.871	1295.735
<b>175</b>	1270.443	1318.109	1324.918	1322.973	1346.320	1362.857	1344.374	1292.817	1294.762
<b>180</b>	1321.027	1321.027	1321.027	1321.027	1321.027	1321.027	1321.027	1321.027	1321.027

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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	333.76	N.A.	8.90
90-120	798.98	N.A.	21.20
90-130	1404.39	N.A.	37.30
90-150	2734.04	N.A.	72.50
90-180	3769.92	N.A.	100.00
110-180	3436.16	N.A.	91.10
0-180	3769.92	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	64.66
100-110	269.09
110-120	465.22
120-130	605.41
130-140	675.92
140-150	653.73
150-160	547.51
160-170	362.47
170-180	125.90

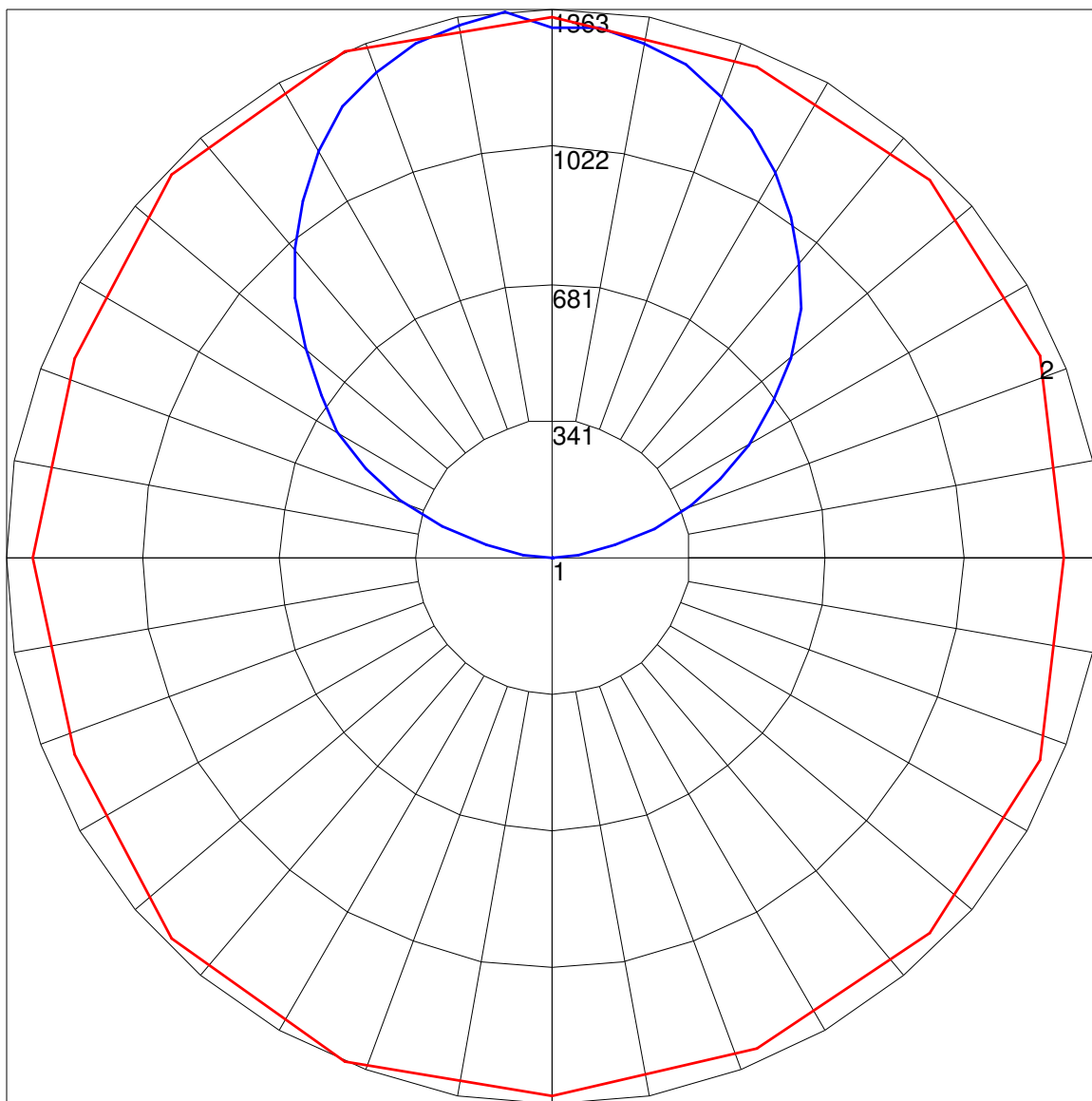
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1362.857 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.)