



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CXC-3-08-P8-835-0-D-POEX.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]GEN FROM BALLABS TEST NO. 19927.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUE DATE] 21-JUN-2017  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 2-56 LED 22"ARRAYS 44"COVE LUMINAIRE @ 0 DEG  
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS  
[LUMCAT] CXC-3-08-P8-835-0-D-POEx  
[LAMPCAT] HLM 80 CRI 3500K CCT

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	23
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>	1.615	2.423	8.885	51.695	60.581	62.196	56.542	56.542	58.157
<b>100</b>	41.195	61.388	87.236	131.662	150.240	139.739	130.046	131.662	136.508
<b>105</b>	165.587	186.588	191.435	218.090	235.053	237.476	222.937	220.514	222.937
<b>110</b>	279.479	277.863	285.133	305.326	309.365	337.636	321.481	313.404	306.134
<b>115</b>	352.983	361.868	373.177	380.446	388.524	429.719	406.294	399.832	395.794
<b>120</b>	436.988	445.066	459.605	466.875	477.376	514.532	494.338	492.723	481.414
<b>125</b>	520.186	532.302	539.572	556.534	568.650	586.421	583.997	580.766	565.419
<b>130</b>	601.768	626.808	624.385	642.963	652.656	669.618	670.426	668.810	647.809
<b>135</b>	674.465	707.582	700.312	723.737	735.853	755.239	745.546	753.623	731.007
<b>140</b>	747.969	777.048	778.663	795.626	809.357	833.590	823.089	819.050	809.357
<b>145</b>	814.204	836.013	845.706	858.630	874.785	899.825	890.132	877.208	881.247
<b>150</b>	874.785	903.056	907.902	919.210	936.981	970.906	954.751	934.557	949.905
<b>155</b>	941.019	966.059	968.483	974.137	995.946	1027.448	1011.293	988.676	1002.408
<b>160</b>	992.715	1019.370	1014.524	1017.755	1041.179	1067.835	1054.911	1029.063	1037.948
<b>165</b>	1028.256	1062.988	1058.950	1054.911	1075.912	1097.721	1084.798	1058.950	1063.796
<b>170</b>	1051.680	1083.990	1083.990	1081.567	1100.952	1117.915	1104.991	1071.874	1075.912
<b>175</b>	1054.911	1094.490	1100.145	1098.529	1117.915	1131.647	1116.299	1073.489	1075.105
<b>180</b>	1096.914	1096.914	1096.914	1096.914	1096.914	1096.914	1096.914	1096.914	1096.914

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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	277.14	N.A.	8.90
90-120	663.43	N.A.	21.20
90-130	1166.13	N.A.	37.30
90-150	2270.21	N.A.	72.50
90-180	3130.35	N.A.	100.00
110-180	2853.21	N.A.	91.10
0-180	3130.35	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	53.69
100-110	223.44
110-120	386.30
120-130	502.70
130-140	561.25
140-150	542.82
150-160	454.63
160-170	300.97
170-180	104.54

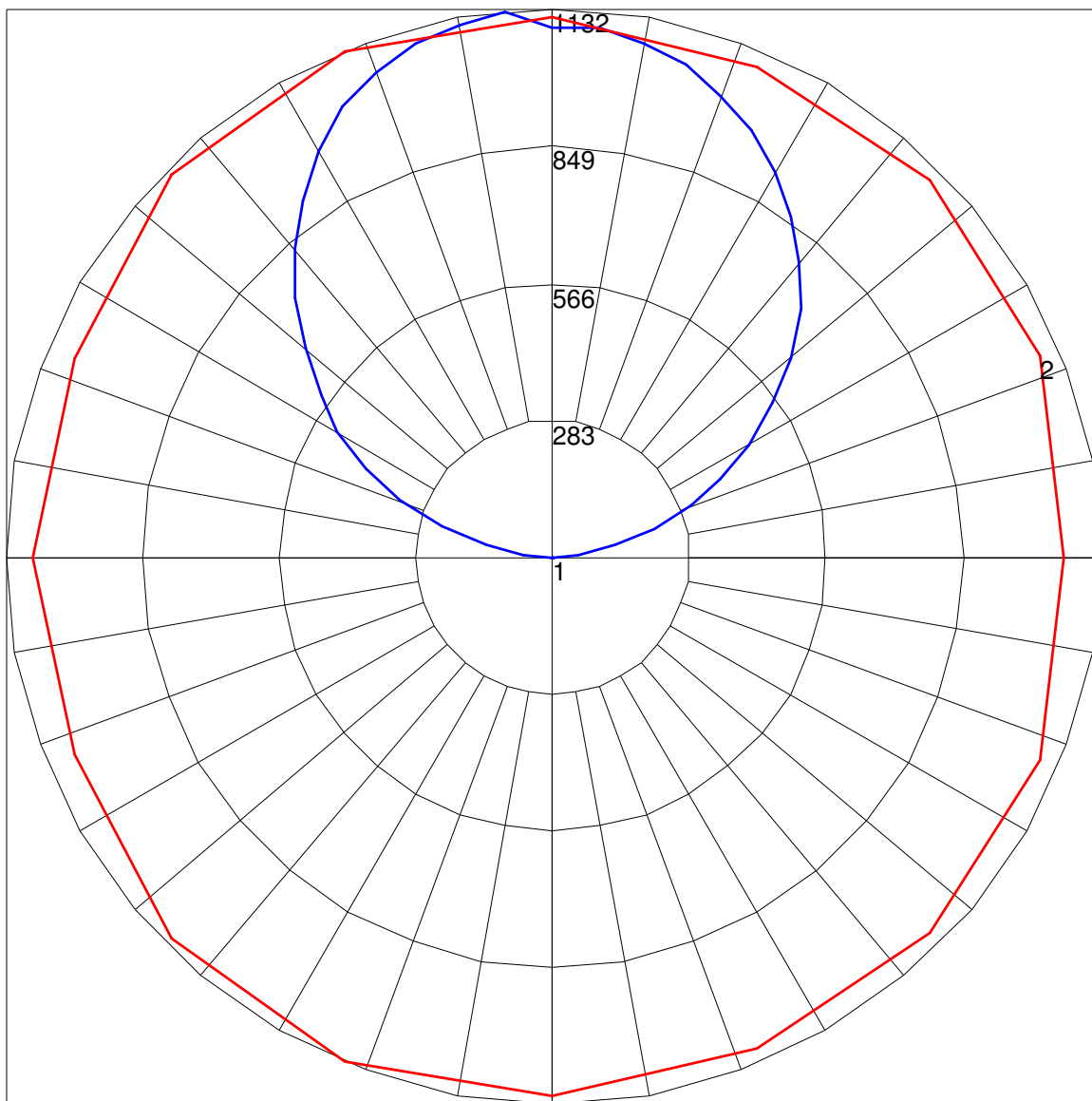
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1131.647 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.)