



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CXC-2-09-P8-835-25-D-POE PR\_.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] 01-24-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] CONTINUOUS COVE LUMINAIRE @ 25DEG

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] CXC-2-09-P8-835-25-D-POE PR

[LAMPCAT] HLM 80 CRI, 3500 CCT

[\_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	2253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	16.3
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)	2.60 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>	73.685	77.222	73.096	99.622	42.443	12.379	11.200	6.484	3.537
<b>100</b>	159.750	169.181	175.666	173.897	100.212	40.674	22.990	22.400	18.863
<b>105</b>	251.119	275.878	290.615	237.561	166.234	107.286	40.674	33.600	33.011
<b>110</b>	352.510	383.753	375.500	298.278	227.540	181.560	90.780	51.874	38.316
<b>115</b>	456.848	480.428	447.417	361.352	280.004	220.466	157.981	107.286	61.896
<b>120</b>	547.629	553.523	509.312	422.069	336.594	272.341	216.340	170.950	120.254
<b>125</b>	613.651	607.756	567.671	476.301	388.469	328.931	299.457	234.024	186.276
<b>130</b>	666.115	659.630	613.651	526.407	446.238	390.826	354.279	302.994	253.477
<b>135</b>	707.378	703.841	650.199	573.566	504.596	453.312	397.900	389.648	318.320
<b>140</b>	740.389	738.621	690.873	617.777	565.903	505.186	451.543	415.585	410.869
<b>145</b>	761.611	763.379	719.168	656.093	611.882	552.934	506.365	459.796	435.038
<b>150</b>	777.527	781.653	745.105	689.104	653.735	598.324	557.060	511.081	489.270
<b>155</b>	784.600	793.443	765.737	715.631	690.283	644.893	600.682	560.597	541.144
<b>160</b>	783.421	798.158	779.885	742.747	719.168	689.104	647.841	608.345	588.892
<b>165</b>	776.937	795.801	781.653	758.074	742.747	723.884	691.462	653.146	631.335
<b>170</b>	762.790	784.011	778.116	762.790	758.663	752.179	728.010	692.641	669.062
<b>175</b>	733.315	762.200	768.684	758.663	768.095	770.453	758.074	720.936	706.789
<b>180</b>	749.231	749.231	749.231	749.231	749.231	749.231	749.231	749.231	749.231

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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	222.69	N.A.	9.90
90-120	508.93	N.A.	22.60
90-130	877.47	N.A.	38.90
90-150	1661.87	N.A.	73.80
90-180	2253.19	N.A.	100.00
110-180	2030.5	N.A.	90.10
0-180	2253.19	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	51.60
100-110	171.09
110-120	286.24
120-130	368.55
130-140	402.99
140-150	381.41
150-160	313.33
160-170	206.37
170-180	71.62

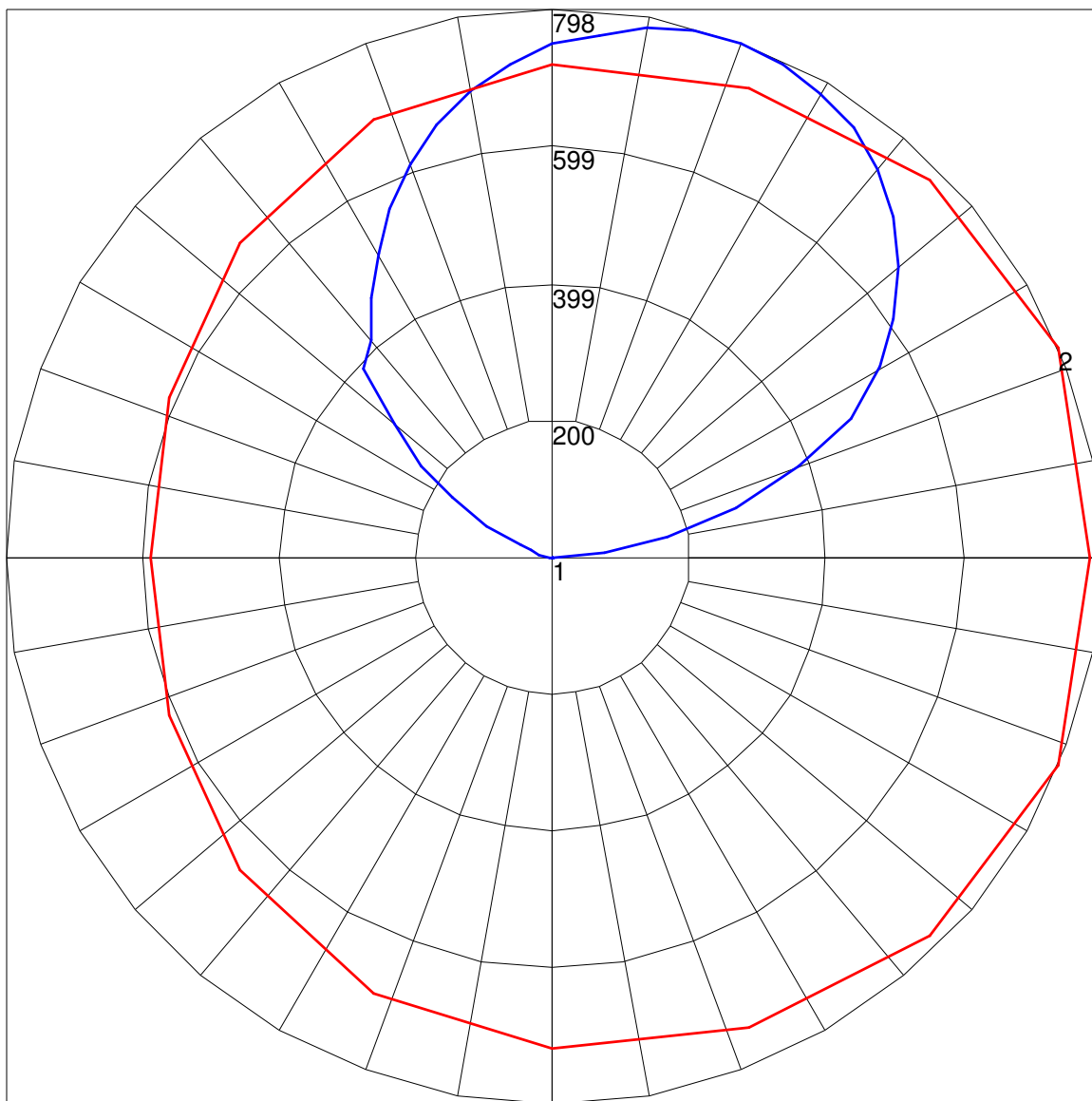
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 798.158 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.)