



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L6-835-25-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-L6-835-25-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	2209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18.04
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>	72.240	75.707	71.662	97.668	41.610	12.136	10.980	6.357	3.468
<b>100</b>	156.616	165.862	172.219	170.486	98.246	39.876	22.539	21.961	18.493
<b>105</b>	246.193	270.465	284.913	232.901	162.973	105.181	39.876	32.941	32.363
<b>110</b>	345.595	376.224	368.133	292.426	223.076	177.999	88.999	50.857	37.565
<b>115</b>	447.886	471.003	438.639	354.263	274.511	216.141	154.882	105.181	60.681
<b>120</b>	536.885	542.664	499.321	413.789	329.991	266.998	212.096	167.596	117.895
<b>125</b>	601.612	595.833	556.534	466.957	380.847	322.478	293.582	229.433	182.622
<b>130</b>	653.047	646.689	601.612	516.080	437.483	383.159	347.328	297.049	248.504
<b>135</b>	693.501	690.033	637.443	562.314	494.697	444.418	390.094	382.003	312.075
<b>140</b>	725.864	724.130	677.319	605.657	554.801	495.275	442.685	407.432	402.808
<b>145</b>	746.669	748.403	705.059	643.222	599.878	542.086	496.431	450.775	426.503
<b>150</b>	762.273	766.318	730.487	675.585	640.910	586.586	546.132	501.054	479.671
<b>155</b>	769.208	777.877	750.715	701.592	676.741	632.242	588.898	549.599	530.528
<b>160</b>	768.052	782.500	764.585	728.176	705.059	675.585	635.131	596.411	577.339
<b>165</b>	761.695	780.188	766.318	743.202	728.176	709.682	677.897	640.332	618.949
<b>170</b>	747.825	768.630	762.851	747.825	743.780	737.422	713.728	679.053	655.936
<b>175</b>	718.929	747.247	753.604	743.780	753.026	755.338	743.202	706.793	692.923
<b>180</b>	734.533	734.533	734.533	734.533	734.533	734.533	734.533	734.533	734.533

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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	218.32	N.A.	9.90
90-120	498.94	N.A.	22.60
90-130	860.26	N.A.	38.90
90-150	1629.27	N.A.	73.80
90-180	2208.99	N.A.	100.00
110-180	1990.67	N.A.	90.10
0-180	2208.99	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	50.59
100-110	167.73
110-120	280.62
120-130	361.32
130-140	395.08
140-150	373.92
150-160	307.19
160-170	202.32
170-180	70.22

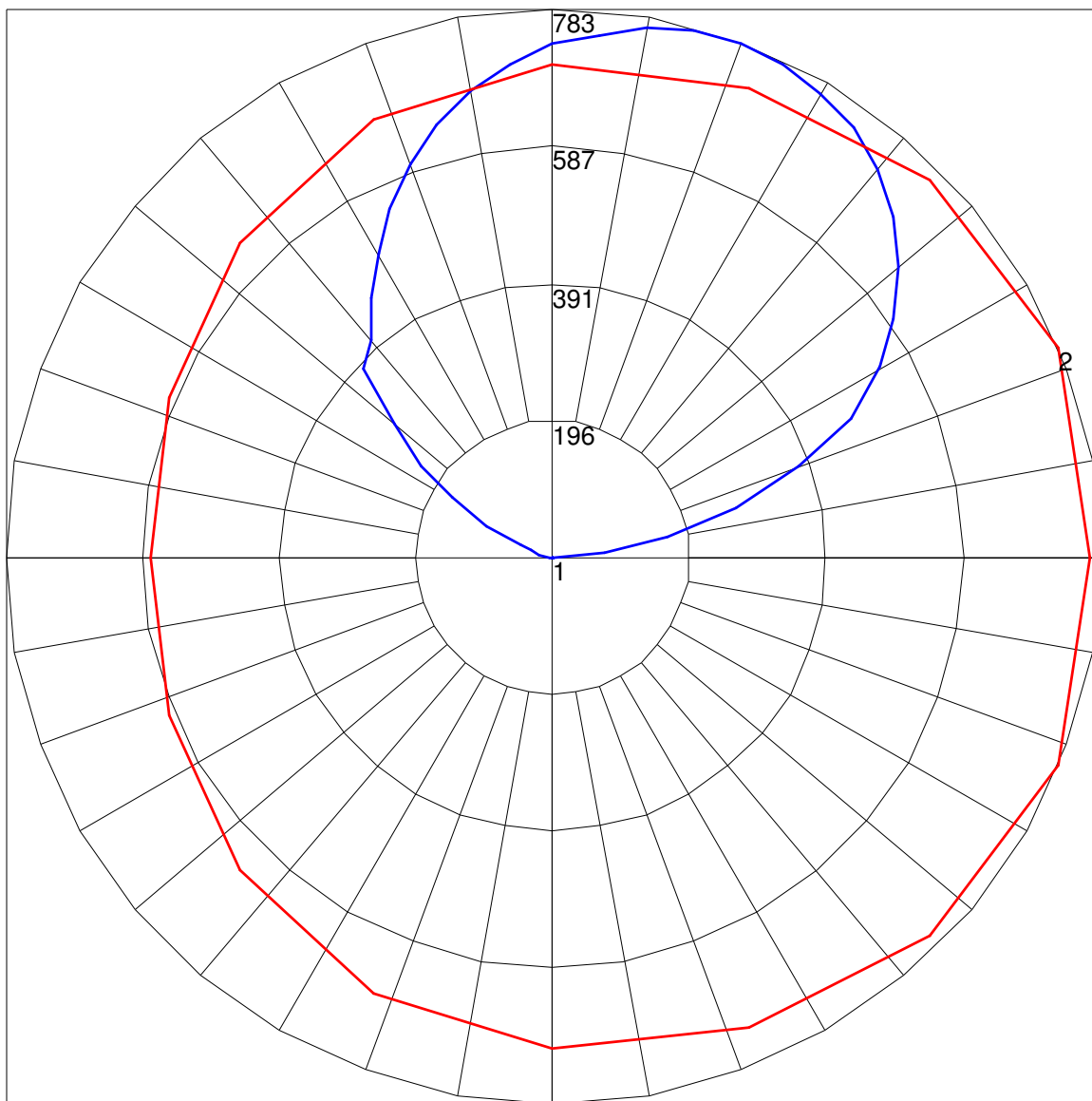
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 782.5 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.)