



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L6-840-25-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-L6-840-25-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	2275
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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>	74.407	77.978	73.812	100.598	42.858	12.500	11.310	6.548	3.572
<b>100</b>	161.314	170.838	177.386	175.600	101.193	41.073	23.215	22.620	19.048
<b>105</b>	253.579	278.579	293.461	239.888	167.862	108.336	41.073	33.930	33.334
<b>110</b>	355.962	387.511	379.177	301.199	229.768	183.338	91.669	52.382	38.692
<b>115</b>	461.322	485.133	451.798	364.891	282.746	222.625	159.528	108.336	62.502
<b>120</b>	552.992	558.944	514.300	426.202	339.890	275.008	218.459	172.624	121.432
<b>125</b>	619.660	613.708	573.230	480.966	392.273	332.152	302.389	236.316	188.101
<b>130</b>	672.638	666.090	619.660	531.563	450.608	394.654	357.748	305.961	255.960
<b>135</b>	714.306	710.734	656.566	579.183	509.538	457.751	401.797	393.463	321.438
<b>140</b>	747.640	745.854	697.639	623.827	571.445	510.133	455.965	419.655	414.893
<b>145</b>	769.069	770.855	726.211	662.519	617.874	558.349	511.324	464.299	439.298
<b>150</b>	785.141	789.308	752.402	695.853	660.138	604.184	562.516	516.086	494.061
<b>155</b>	792.284	801.213	773.236	722.639	697.043	651.209	606.565	566.087	546.444
<b>160</b>	791.094	805.975	787.522	750.021	726.211	695.853	654.185	614.303	594.660
<b>165</b>	784.546	803.594	789.308	765.498	750.021	730.973	698.234	659.542	637.518
<b>170</b>	770.260	791.689	785.736	770.260	766.093	759.545	735.140	699.424	675.614
<b>175</b>	740.497	769.664	776.212	766.093	775.617	777.998	765.498	727.997	713.710
<b>180</b>	756.569	756.569	756.569	756.569	756.569	756.569	756.569	756.569	756.569

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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	224.87	N.A.	9.90
90-120	513.91	N.A.	22.60
90-130	886.07	N.A.	38.90
90-150	1678.14	N.A.	73.80
90-180	2275.26	N.A.	100.00
110-180	2050.39	N.A.	90.10
0-180	2275.26	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	52.11
100-110	172.76
110-120	289.04
120-130	372.16
130-140	406.94
140-150	385.14
150-160	316.40
160-170	208.39
170-180	72.32

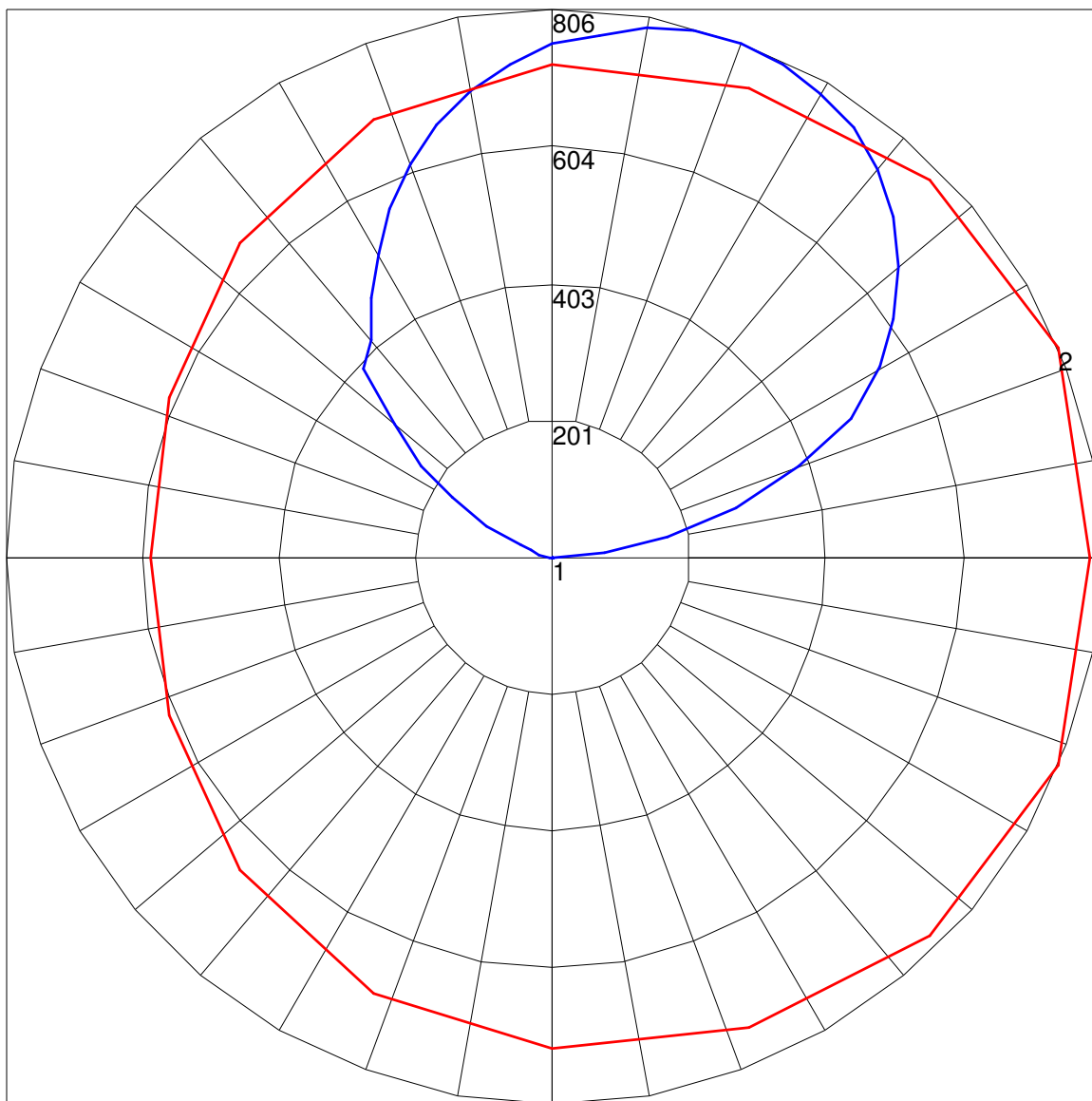
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 805.975 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.)