



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L8-835-25-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-L8-835-25-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	3001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	24.64
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>	98.142	102.853	97.357	132.688	56.530	16.488	14.918	8.637	4.711
<b>100</b>	212.773	225.335	233.971	231.616	133.474	54.175	30.620	29.835	25.124
<b>105</b>	334.469	367.445	387.073	316.411	221.409	142.895	54.175	44.753	43.968
<b>110</b>	469.513	511.125	500.133	397.280	303.064	241.823	120.911	69.092	51.034
<b>115</b>	608.483	639.888	595.920	481.290	372.941	293.642	210.417	142.895	82.440
<b>120</b>	729.394	737.245	678.360	562.159	448.314	362.734	288.146	227.690	160.168
<b>125</b>	817.329	809.478	756.089	634.392	517.406	438.107	398.850	311.700	248.104
<b>130</b>	887.207	878.570	817.329	701.129	594.350	520.547	471.868	403.561	337.610
<b>135</b>	942.166	937.456	866.008	763.940	672.079	603.772	529.969	518.977	423.975
<b>140</b>	986.134	983.779	920.183	822.825	753.733	672.864	601.416	553.523	547.242
<b>145</b>	1014.399	1016.755	957.869	873.859	814.974	736.460	674.434	612.408	579.432
<b>150</b>	1035.598	1041.094	992.415	917.827	870.719	796.916	741.956	680.715	651.665
<b>155</b>	1045.020	1056.797	1019.895	953.158	919.397	858.942	800.056	746.667	720.757
<b>160</b>	1043.449	1063.078	1038.739	989.275	957.869	917.827	862.867	810.263	784.354
<b>165</b>	1034.813	1059.937	1041.094	1009.688	989.275	964.150	920.968	869.934	840.884
<b>170</b>	1015.970	1044.235	1036.383	1015.970	1010.474	1001.837	969.646	922.538	891.132
<b>175</b>	976.713	1015.184	1023.821	1010.474	1023.036	1026.176	1009.688	960.225	941.381
<b>180</b>	997.911	997.911	997.911	997.911	997.911	997.911	997.911	997.911	997.911

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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	296.60	N.A.	9.90
90-120	677.85	N.A.	22.60
90-130	1168.72	N.A.	38.90
90-150	2213.46	N.A.	73.80
90-180	3001.05	N.A.	100.00
110-180	2704.46	N.A.	90.10
0-180	3001.05	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	68.73
100-110	227.87
110-120	381.25
120-130	490.87
130-140	536.75
140-150	508.00
150-160	417.33
160-170	274.86
170-180	95.39

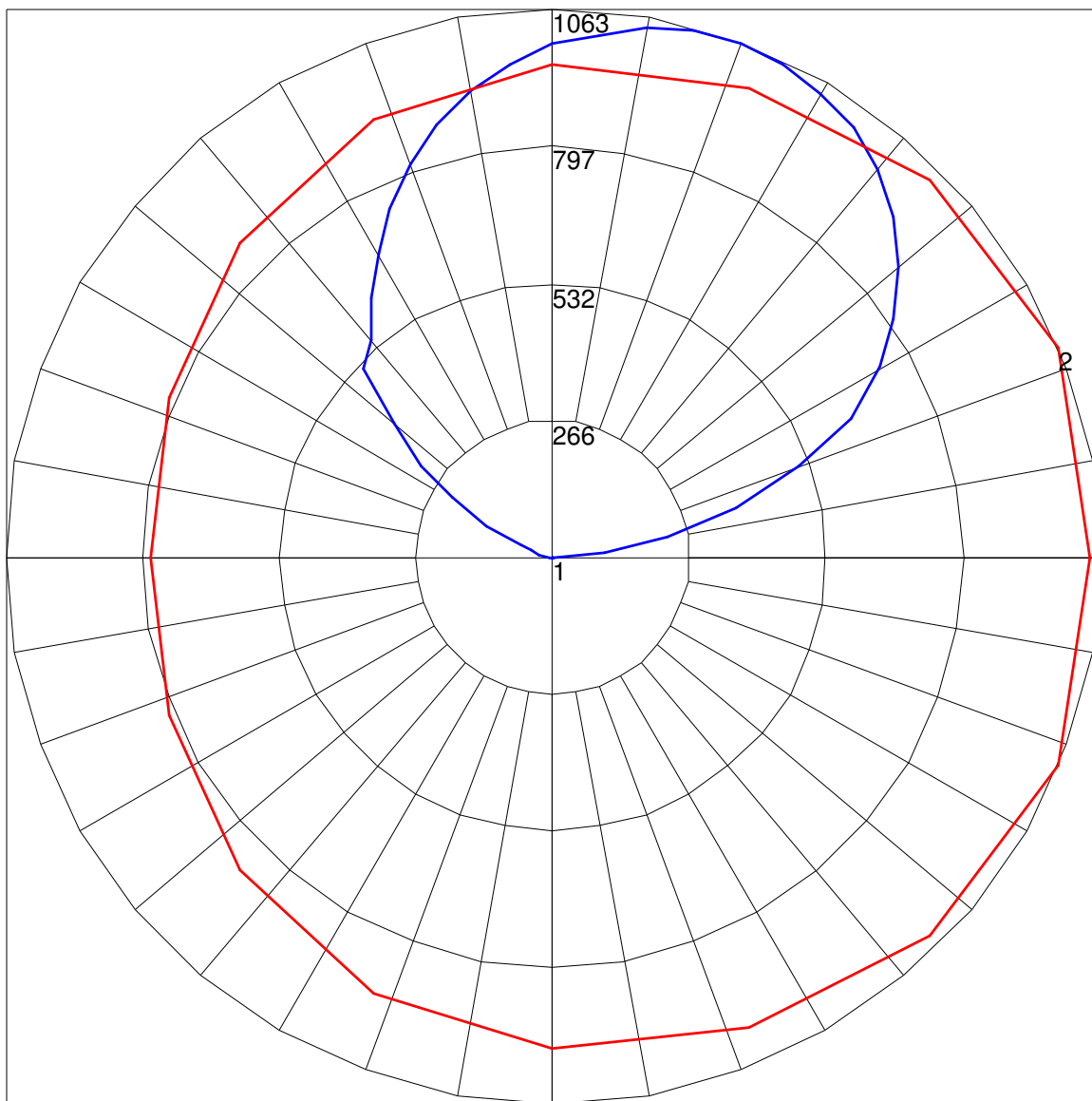
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1063.078 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.)