



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CX-3-08-L8-827-25-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-L8-827-25-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	2911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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>	95.198	99.768	94.436	128.708	54.834	15.993	14.470	8.377	4.570
<b>100</b>	206.389	218.575	226.952	224.667	129.469	52.549	29.702	28.940	24.371
<b>105</b>	324.435	356.422	375.461	306.919	214.767	138.608	52.549	43.410	42.649
<b>110</b>	455.428	495.792	485.129	385.362	293.972	234.568	117.284	67.019	49.503
<b>115</b>	590.228	620.691	578.043	466.851	361.753	284.833	204.105	138.608	79.966
<b>120</b>	707.512	715.128	658.009	545.295	434.865	351.852	279.502	220.860	155.363
<b>125</b>	792.809	785.194	733.406	615.360	501.884	424.964	386.885	302.349	240.661
<b>130</b>	860.591	852.213	792.809	680.095	576.519	504.931	457.712	391.454	327.481
<b>135</b>	913.901	909.332	840.028	741.022	651.916	585.658	514.070	503.407	411.256
<b>140</b>	956.550	954.265	892.577	798.141	731.121	652.678	583.374	536.917	530.824
<b>145</b>	983.967	986.252	929.133	847.644	790.525	714.366	654.201	594.036	562.049
<b>150</b>	1004.530	1009.861	962.643	890.292	844.597	773.008	719.697	660.294	632.115
<b>155</b>	1013.669	1025.093	989.298	924.564	891.815	833.173	776.055	724.267	699.135
<b>160</b>	1012.146	1031.185	1007.576	959.596	929.133	890.292	836.981	785.955	760.823
<b>165</b>	1003.768	1028.139	1009.861	979.398	959.596	935.226	893.339	843.836	815.657
<b>170</b>	985.490	1012.907	1005.292	985.490	980.159	971.782	940.557	894.862	864.398
<b>175</b>	947.411	984.729	993.106	980.159	992.345	995.391	979.398	931.418	913.140
<b>180</b>	967.974	967.974	967.974	967.974	967.974	967.974	967.974	967.974	967.974

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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	287.70	N.A.	9.90
90-120	657.51	N.A.	22.60
90-130	1133.66	N.A.	38.90
90-150	2147.06	N.A.	73.80
90-180	2911.02	N.A.	100.00
110-180	2623.32	N.A.	90.10
0-180	2911.02	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	66.67
100-110	221.03
110-120	369.81
120-130	476.15
130-140	520.65
140-150	492.76
150-160	404.81
160-170	266.62
170-180	92.53

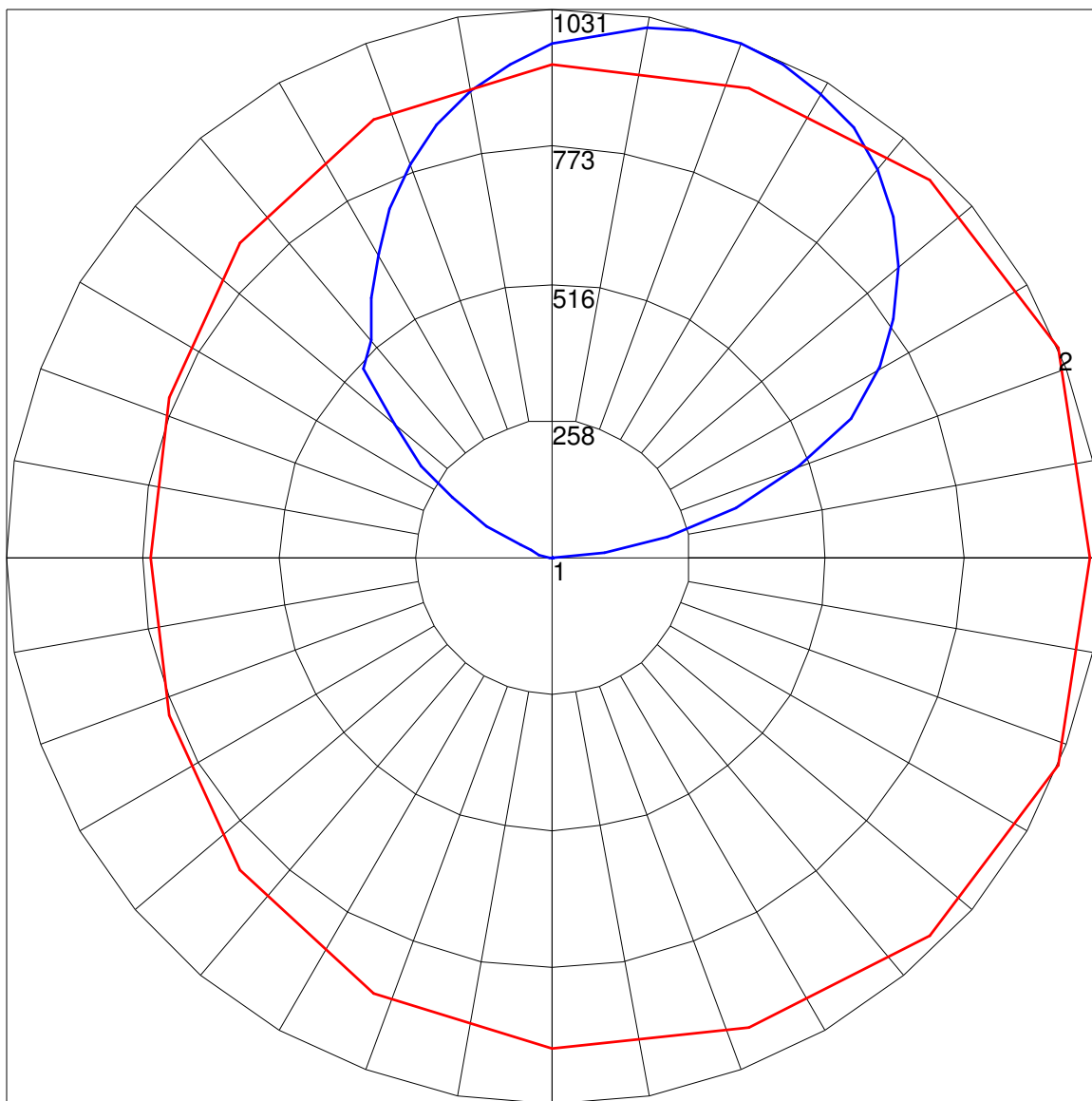
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1031.185 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.)