



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CXC-3-08-L6-8TW-0-D-DALI 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19927.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 03-APR-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] COVE LUMINAIRE @ 0 DEG  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] CXC-3-08-L6-8TW-0-D-DALI 4000k  
 [LAMPCAT] HLM 80 CRI, TUNABLE WHITE LED  
 [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	2255
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	20.2
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
Luminous Length (0-180)	0.22 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.00 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>	1.164	1.746	6.401	37.244	43.645	44.809	40.735	40.735	41.899
<b>100</b>	29.679	44.227	62.849	94.855	108.240	100.675	93.692	94.855	98.347
<b>105</b>	119.297	134.427	137.919	157.123	169.343	171.089	160.614	158.868	160.614
<b>110</b>	201.350	200.186	205.423	219.972	222.881	243.249	231.610	225.791	220.554
<b>115</b>	254.306	260.707	268.854	274.092	279.911	309.590	292.714	288.058	285.148
<b>120</b>	314.827	320.646	331.121	336.359	343.924	370.693	356.144	354.981	346.834
<b>125</b>	374.766	383.495	388.733	400.953	409.683	422.485	420.739	418.412	407.355
<b>130</b>	433.542	451.582	449.836	463.221	470.204	482.424	483.006	481.843	466.712
<b>135</b>	485.916	509.775	504.538	521.414	530.143	544.110	537.126	542.946	526.652
<b>140</b>	538.872	559.822	560.986	573.206	583.099	600.557	592.992	590.083	583.099
<b>145</b>	586.591	602.303	609.286	618.597	630.236	648.276	641.293	631.982	634.892
<b>150</b>	630.236	650.604	654.095	662.242	675.045	699.486	687.848	673.299	684.356
<b>155</b>	677.955	695.995	697.741	701.814	717.526	740.222	728.583	712.289	722.182
<b>160</b>	715.199	734.402	730.911	733.239	750.115	769.319	760.008	741.386	747.787
<b>165</b>	740.804	765.827	762.917	760.008	775.138	790.850	781.539	762.917	766.409
<b>170</b>	757.680	780.957	780.957	779.212	793.178	805.399	796.088	772.228	775.138
<b>175</b>	760.008	788.522	792.596	791.432	805.399	815.292	804.235	773.392	774.556
<b>180</b>	790.268	790.268	790.268	790.268	790.268	790.268	790.268	790.268	790.268

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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	199.66	N.A.	8.90
90-120	477.97	N.A.	21.20
90-130	840.14	N.A.	37.30
90-150	1635.56	N.A.	72.50
90-180	2255.25	N.A.	100.00
110-180	2055.59	N.A.	91.10
0-180	2255.25	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	38.68
100-110	160.98
110-120	278.31
120-130	362.17
130-140	404.35
140-150	391.07
150-160	327.53
160-170	216.84
170-180	75.32

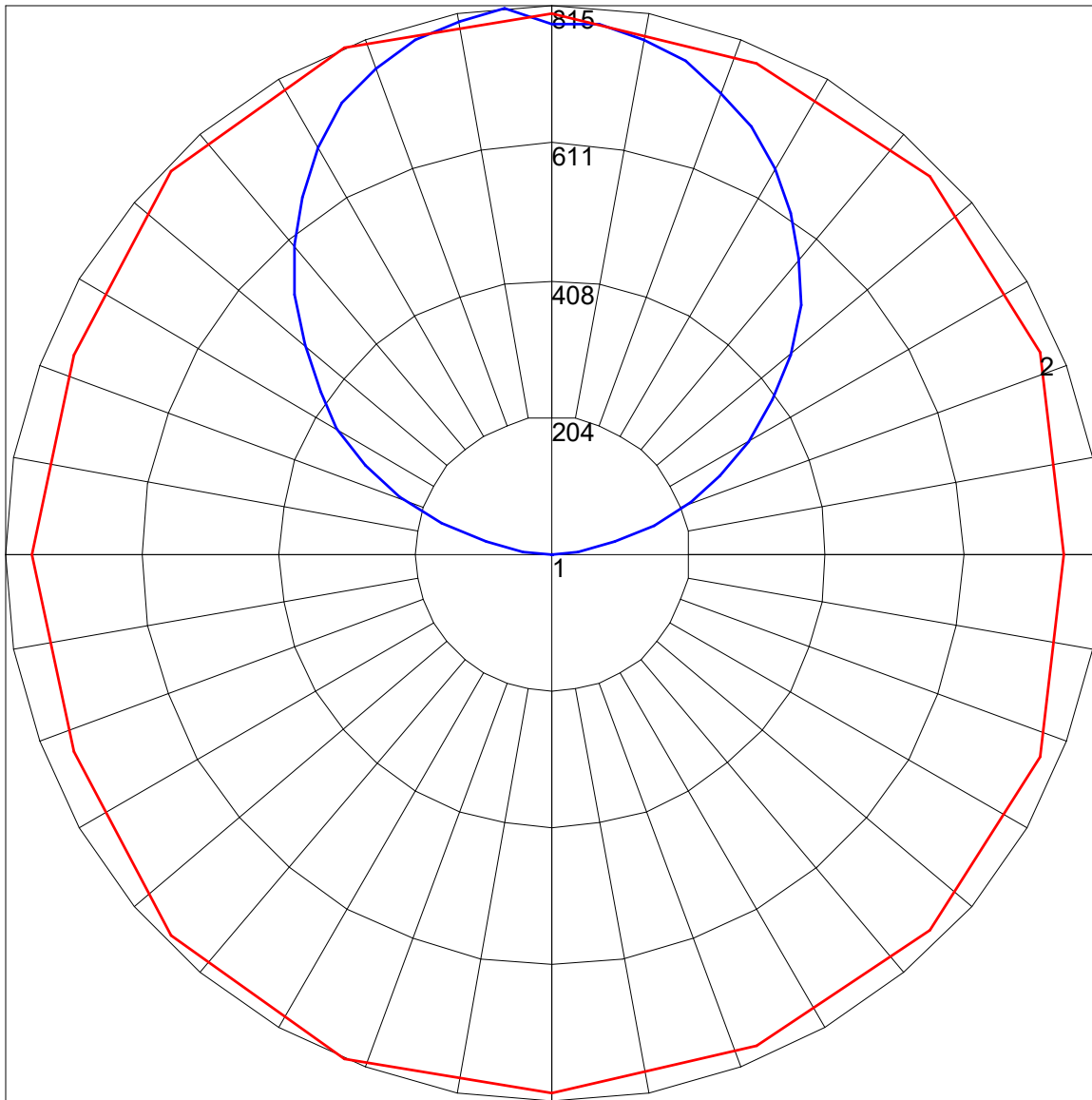
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	142	142	142	142	121	121	121	121	83	83	83	48	48	48	15	15	15	0
1	129	123	118	113	110	105	101	97	72	70	67	41	40	39	13	13	13	0
2	117	107	99	92	100	92	85	80	63	59	55	36	34	33	12	11	11	0
3	107	94	84	76	91	81	73	66	55	50	46	32	29	27	10	10	9	0
4	97	83	72	64	83	71	62	56	49	43	39	28	25	23	9	8	8	0
5	89	73	62	54	76	63	54	47	43	38	33	25	22	20	8	7	7	0
6	82	65	54	46	69	56	47	40	39	33	29	22	19	17	7	6	6	0
7	75	58	48	40	64	50	41	35	35	29	25	20	17	15	7	6	5	0
8	69	53	42	35	59	45	36	30	31	26	22	18	15	13	6	5	4	0
9	64	48	37	30	55	41	32	27	28	23	19	17	13	11	5	4	4	0
10	60	43	33	27	51	37	29	23	26	20	17	15	12	10	5	4	3	0

POLAR GRAPH



Maximum Candela = 815.292 Located At Horizontal Angle = 112.5, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)