



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CXC-3-08-L4-8TW-0-D-DALI_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 19927.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 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-L4-8TW-0-D-DALI 4000k

[LAMPCAT] HLM 80 CRI, TUNABLE WHITE LED

[_SEARCH_SOURCE] 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	1514
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	13.6
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>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.781	1.172	4.298	25.005	29.303	30.085	27.350	27.350	28.131
100	19.926	29.694	42.197	63.686	72.672	67.593	62.904	63.686	66.030
105	80.095	90.254	92.598	105.492	113.696	114.869	107.836	106.664	107.836
110	135.186	134.404	137.920	147.688	149.642	163.317	155.502	151.595	148.079
115	170.740	175.038	180.508	184.024	187.931	207.858	196.527	193.401	191.448
120	211.374	215.281	222.314	225.830	230.909	248.882	239.114	238.333	232.863
125	251.617	257.478	260.994	269.199	275.060	283.655	282.483	280.920	273.497
130	291.079	303.191	302.019	311.005	315.693	323.898	324.289	323.508	313.349
135	326.243	342.262	338.745	350.076	355.936	365.313	360.625	364.532	353.592
140	361.797	375.863	376.644	384.849	391.491	403.212	398.133	396.180	391.491
145	393.835	404.384	409.073	415.324	423.139	435.251	430.562	424.311	426.264
150	423.139	436.813	439.158	444.628	453.223	469.633	461.819	452.051	459.474
155	455.177	467.289	468.461	471.196	481.745	496.983	489.168	478.229	484.871
160	480.182	493.076	490.731	492.294	503.625	516.518	510.267	497.764	502.062
165	497.373	514.174	512.220	510.267	520.425	530.974	524.723	512.220	514.565
170	508.704	524.332	524.332	523.160	532.537	540.742	534.491	518.472	520.425
175	510.267	529.412	532.146	531.365	540.742	547.384	539.961	519.253	520.034
180	530.584	530.584	530.584	530.584	530.584	530.584	530.584	530.584	530.584

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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	134.05	N.A.	8.90
90-120	320.91	N.A.	21.20
90-130	564.07	N.A.	37.30
90-150	1098.11	N.A.	72.50
90-180	1514.17	N.A.	100.00
110-180	1380.12	N.A.	91.10
0-180	1514.17	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	25.97
100-110	108.08
110-120	186.85
120-130	243.16
130-140	271.48
140-150	262.57
150-160	219.91
160-170	145.58
170-180	50.57

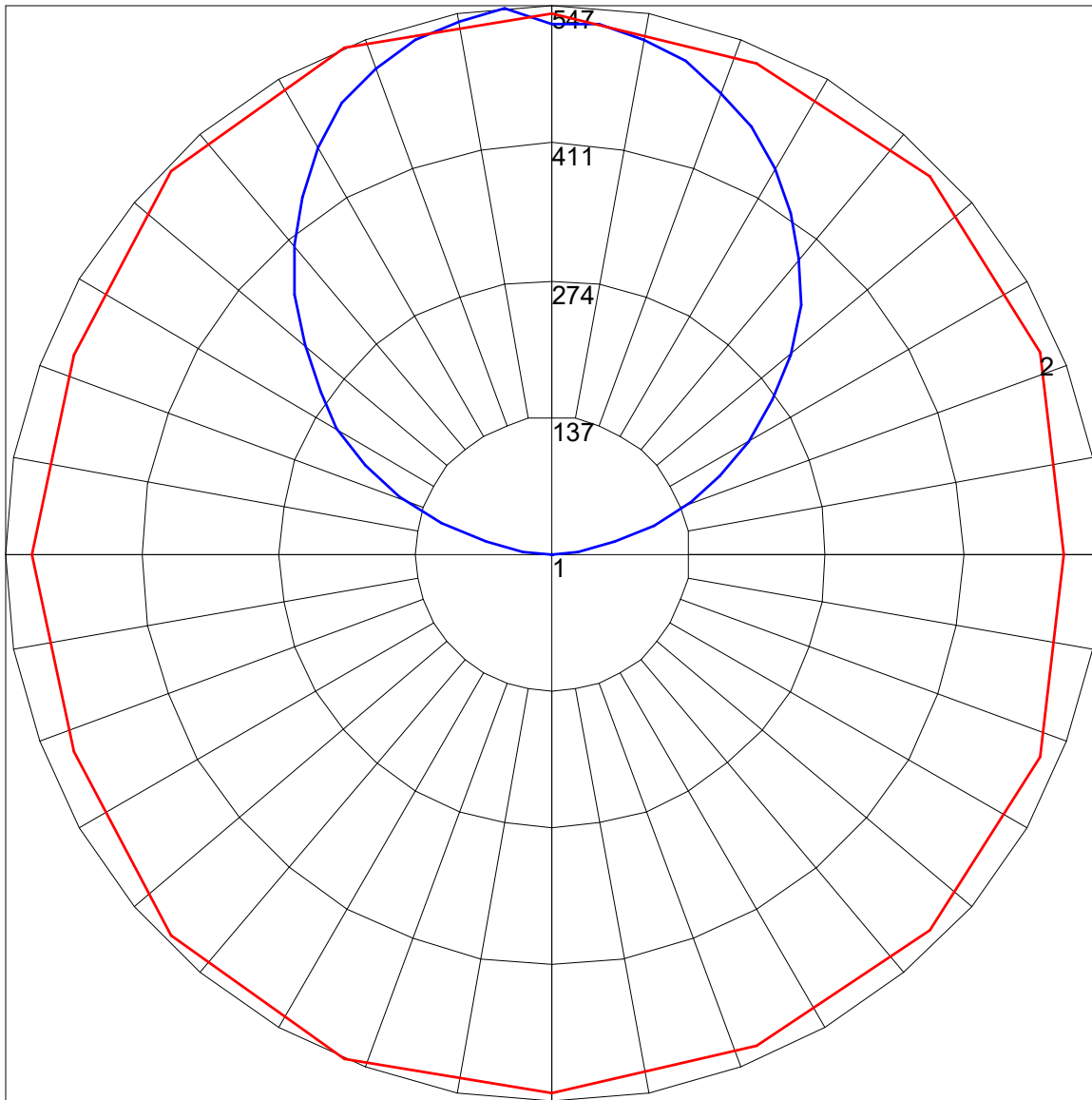
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	39	39	39	39	33	33	33	33	23	23	23	13	13	13	4	4	4	0
1	35	33	32	31	30	29	27	26	20	19	18	11	11	11	4	4	3	0
2	32	29	27	25	27	25	23	22	17	16	15	10	9	9	3	3	3	0
3	29	26	23	21	25	22	20	18	15	14	13	9	8	7	3	3	2	0
4	27	23	20	17	23	19	17	15	13	12	11	8	7	6	2	2	2	0
5	24	20	17	15	21	17	15	13	12	10	9	7	6	5	2	2	2	0
6	22	18	15	13	19	15	13	11	11	9	8	6	5	5	2	2	2	0
7	20	16	13	11	17	14	11	10	9	8	7	5	5	4	2	2	1	0
8	19	14	11	9	16	12	10	8	9	7	6	5	4	3	2	1	1	0
9	17	13	10	8	15	11	9	7	8	6	5	4	4	3	1	1	1	0
10	16	12	9	7	14	10	8	6	7	6	5	4	3	3	1	1	1	0

POLAR GRAPH



Maximum Candela = 547.384 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.)