



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CXC-3-08-L8-8TW-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-L8-8TW-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	2991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	27.1
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	1.544	2.316	8.491	49.400	57.890	59.434	54.031	54.031	55.575
100	39.365	58.662	83.362	125.815	143.568	133.534	124.271	125.815	130.446
105	158.234	178.302	182.933	208.405	224.614	226.930	213.036	210.721	213.036
110	267.067	265.524	272.470	291.767	295.627	322.642	307.205	299.486	292.539
115	337.308	345.798	356.604	363.551	371.270	410.635	388.251	382.076	378.217
120	417.582	425.301	439.195	446.141	456.176	491.682	472.385	470.841	460.035
125	497.085	508.663	515.610	531.819	543.397	560.378	558.063	554.975	540.310
130	575.044	598.972	596.656	614.409	623.672	639.881	640.653	639.109	619.040
135	644.512	676.159	669.212	691.596	703.174	721.699	712.437	720.156	698.543
140	714.752	742.540	744.084	760.293	773.415	796.571	786.536	782.677	773.415
145	778.046	798.886	808.149	820.499	835.936	859.864	850.602	838.252	842.111
150	835.936	862.952	867.583	878.389	895.370	927.789	912.351	893.055	907.720
155	899.230	923.158	925.473	930.876	951.717	981.820	966.382	944.770	957.892
160	948.629	974.101	969.470	972.557	994.942	1020.413	1008.063	983.364	991.854
165	982.592	1015.782	1011.923	1008.063	1028.132	1048.973	1036.623	1011.923	1016.554
170	1004.976	1035.851	1035.851	1033.535	1052.060	1068.269	1055.919	1024.273	1028.132
175	1008.063	1045.885	1051.288	1049.744	1068.269	1081.391	1066.726	1025.816	1027.360
180	1048.201	1048.201	1048.201	1048.201	1048.201	1048.201	1048.201	1048.201	1048.201

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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	264.83	N.A.	8.90
90-120	633.97	N.A.	21.20
90-130	1114.35	N.A.	37.30
90-150	2169.39	N.A.	72.50
90-180	2991.33	N.A.	100.00
110-180	2726.5	N.A.	91.10
0-180	2991.33	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	51.31
100-110	213.52
110-120	369.14
120-130	480.38
130-140	536.33
140-150	518.72
150-160	434.44
160-170	287.61
170-180	99.90

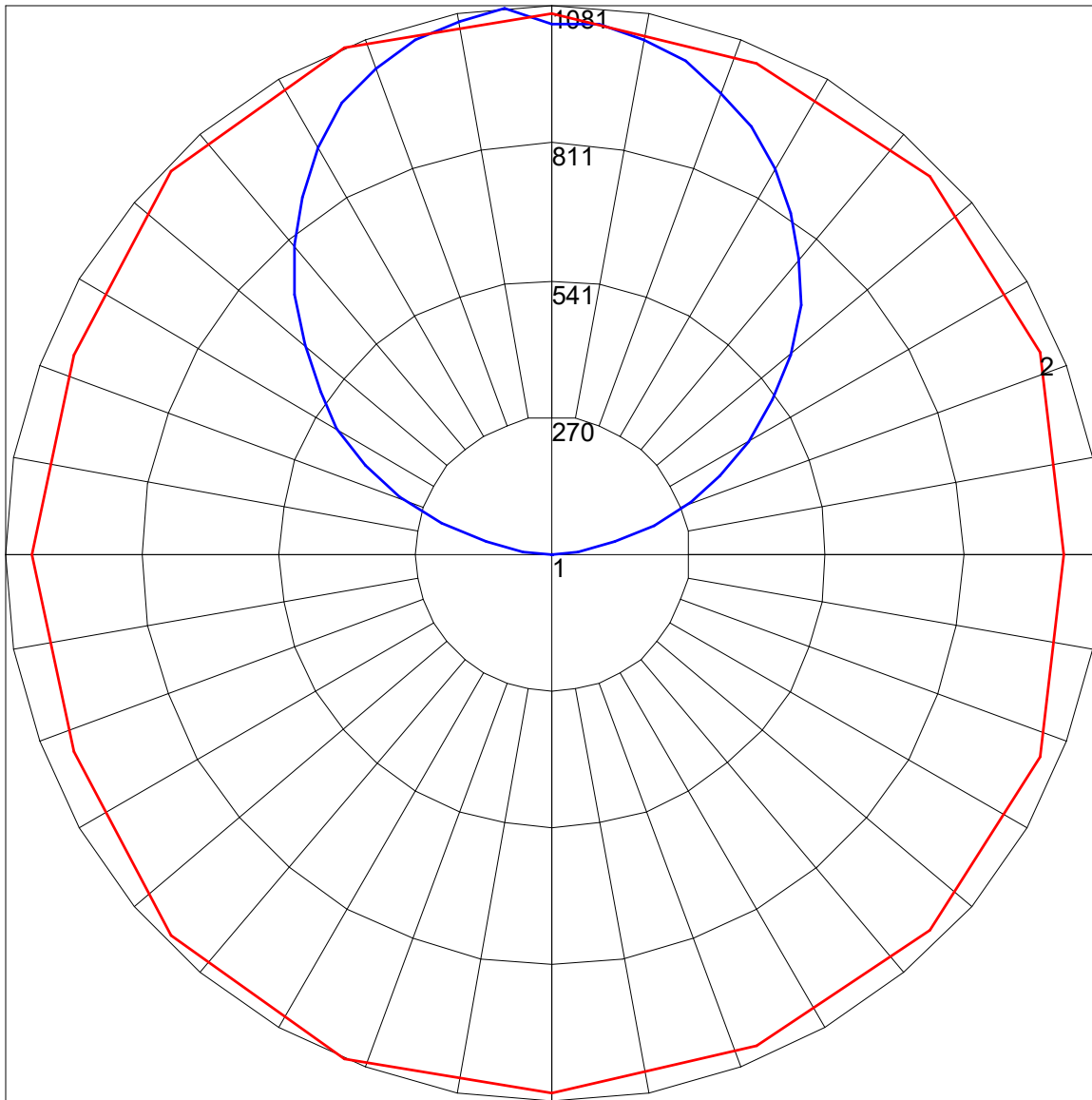
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	188	188	188	188	161	161	161	161	110	110	110	63	63	63	20	20	20	0
1	171	163	156	150	146	140	134	129	96	92	89	55	53	52	18	17	17	0
2	156	142	131	122	133	122	113	106	84	78	74	48	45	43	15	15	14	0
3	142	125	112	101	121	107	96	88	73	67	61	42	39	36	14	13	12	0
4	129	110	96	85	110	94	83	74	65	58	52	38	34	31	12	11	10	0
5	118	97	83	72	100	84	72	63	58	50	44	33	29	26	11	10	9	0
6	108	87	72	62	92	74	62	54	51	44	38	30	26	23	10	8	7	0
7	100	78	63	53	85	67	55	46	46	38	33	27	23	20	9	7	6	0
8	92	70	56	46	78	60	48	40	42	34	29	24	20	17	8	7	6	0
9	85	63	50	40	72	54	43	35	38	30	25	22	18	15	7	6	5	0
10	79	57	44	36	67	49	38	31	34	27	22	20	16	13	6	5	4	0

POLAR GRAPH



Maximum Candela = 1081.391 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.)