



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CX-3-08-L4-835-25-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-L4-835-25-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	1487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	12.3
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>
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	48.639	50.974	48.250	65.761	28.016	8.171	7.393	4.280	2.335
100	105.450	111.676	115.956	114.789	66.150	26.849	15.176	14.786	12.452
105	165.763	182.106	191.834	156.814	109.731	70.819	26.849	22.180	21.790
110	232.691	253.314	247.867	196.892	150.199	119.848	59.924	34.242	25.293
115	301.565	317.129	295.339	238.528	184.830	145.529	104.283	70.819	40.857
120	361.488	365.380	336.196	278.607	222.185	179.771	142.805	112.844	79.380
125	405.069	401.178	374.718	314.405	256.427	217.127	197.671	154.479	122.961
130	439.701	435.420	405.069	347.480	294.561	257.984	233.858	200.005	167.320
135	466.939	464.604	429.195	378.609	333.083	299.230	262.653	257.205	210.122
140	488.729	487.562	456.043	407.793	373.551	333.472	298.063	274.326	271.214
145	502.737	503.905	474.721	433.086	403.902	364.990	334.250	303.510	287.167
150	513.243	515.967	491.842	454.876	431.529	394.952	367.714	337.363	322.966
155	517.913	523.750	505.461	472.386	455.654	425.692	396.509	370.049	357.208
160	517.135	526.863	514.800	490.286	474.721	454.876	427.638	401.567	388.726
165	512.854	525.306	515.967	500.403	490.286	477.834	456.433	431.140	416.743
170	503.516	517.524	513.633	503.516	500.792	496.512	480.558	457.211	441.646
175	484.060	503.126	507.407	500.792	507.018	508.574	500.403	475.888	466.550
180	494.566	494.566	494.566	494.566	494.566	494.566	494.566	494.566	494.566

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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	146.99	N.A.	9.90
90-120	335.94	N.A.	22.60
90-130	579.22	N.A.	38.90
90-150	1097.00	N.A.	73.80
90-180	1487.33	N.A.	100.00
110-180	1340.33	N.A.	90.10
0-180	1487.33	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	34.06
100-110	112.93
110-120	188.95
120-130	243.28
130-140	266.01
140-150	251.76
150-160	206.83
160-170	136.22
170-180	47.28

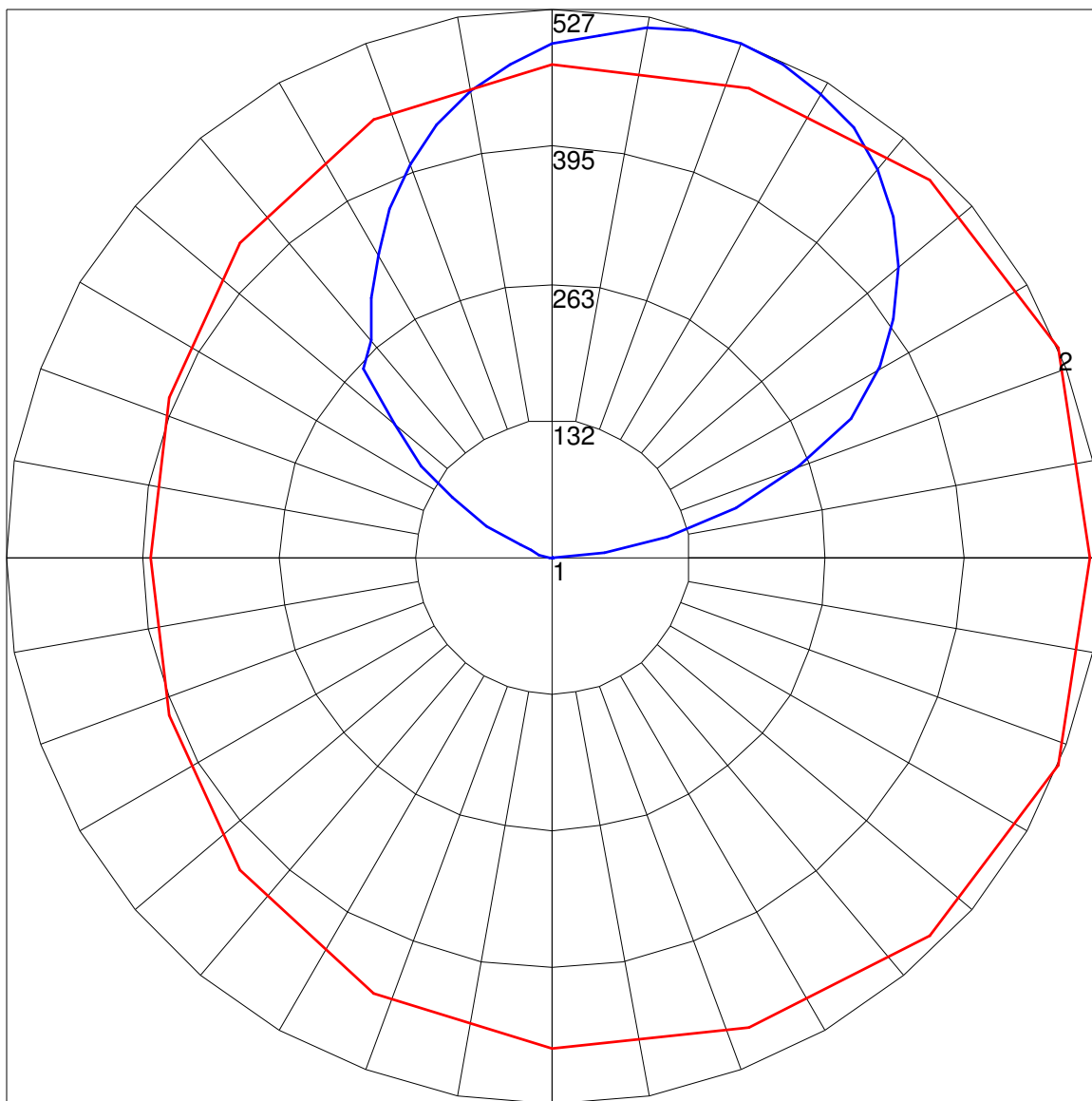
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 526.863 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.)