



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-P7-835-F-A-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20657.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 13-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72 LED 23.75" ARRAYS 8' UPLIGHT LUMINAIRE

[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS

[LUMCAT] MX4U-8-00-P7-835-F-PoE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	48
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)	8.00 ft
Luminous Width (90-270)	0.32 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>
0	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000
95	104.598	102.506	106.690	104.598	110.874
100	221.747	223.839	211.287	221.747	219.655
105	374.460	372.368	372.368	366.092	359.816
110	535.540	527.172	520.897	516.713	506.253
115	709.172	698.713	686.161	665.241	665.241
120	880.713	861.885	843.057	832.598	822.138
125	1037.609	1033.425	1012.506	991.586	981.126
130	1200.782	1198.690	1177.770	1158.943	1152.667
135	1355.586	1359.770	1336.759	1311.655	1303.287
140	1520.851	1512.483	1497.839	1462.276	1462.276
145	1669.379	1658.920	1635.908	1627.540	1608.713
150	1792.805	1805.356	1782.345	1763.517	1755.149
155	1914.138	1924.598	1907.862	1884.851	1882.759
160	2020.828	2029.195	2012.460	2002.000	1991.540
165	2100.322	2110.782	2096.138	2085.678	2079.402
170	2156.805	2167.264	2154.713	2148.437	2148.437
175	2186.092	2198.644	2188.184	2181.908	2173.540
180	2194.460	2194.460	2194.460	2194.460	2194.460

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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	507.54	N.A.	8.70
90-120	1185.17	N.A.	20.40
90-130	2090.99	N.A.	35.90
90-150	4148.13	N.A.	71.20
90-180	5823.75	N.A.	100.00
110-180	5316.21	N.A.	91.30
0-180	5823.75	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	117.10
100-110	390.44
110-120	677.63
120-130	905.82
130-140	1030.83
140-150	1026.31
150-160	877.13
160-170	590.75
170-180	207.74

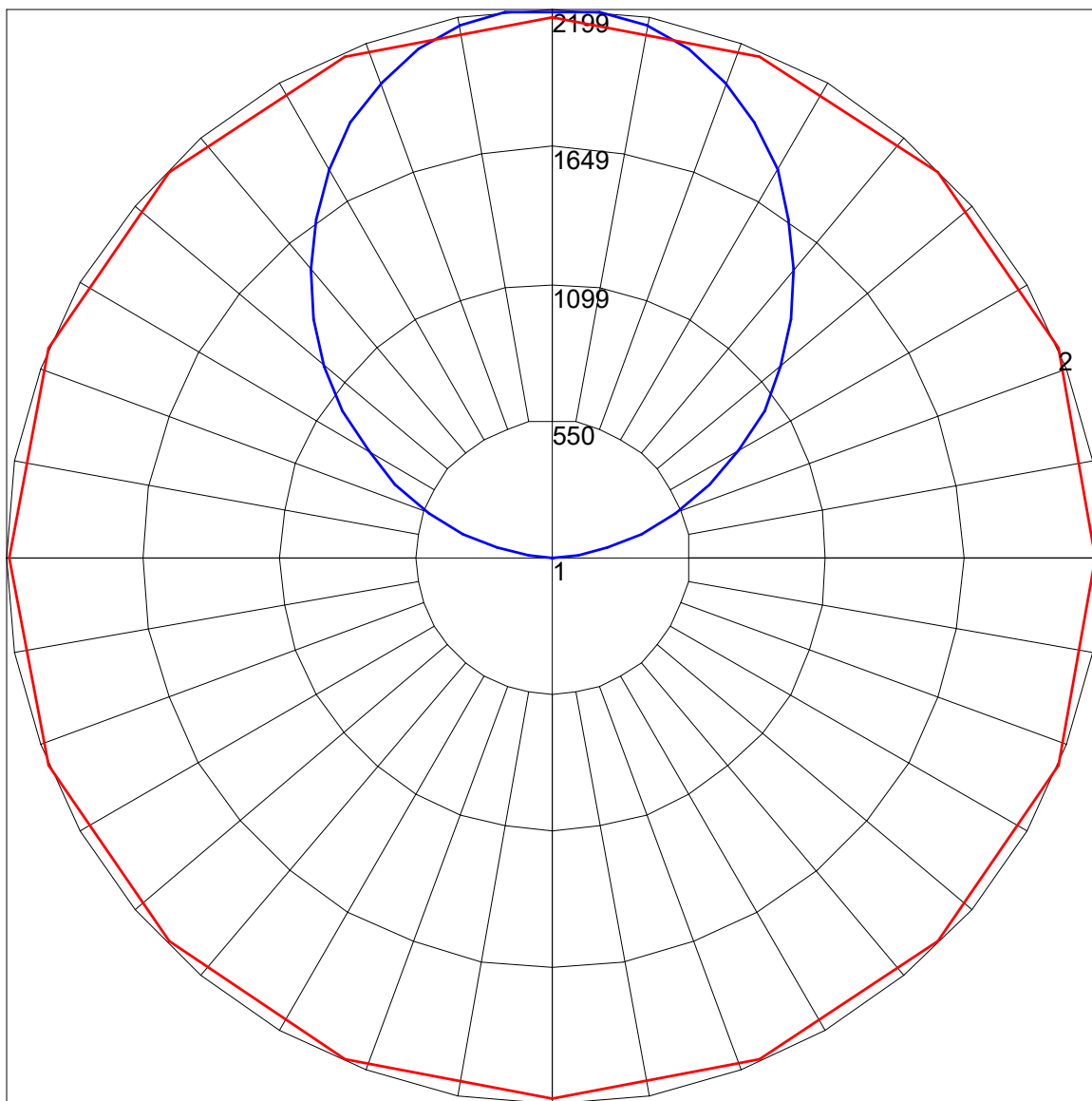
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	48	48	48	48	41	41	41	41	28	28	28	16	16	16	5	5	5	0
1	44	42	40	38	37	36	34	33	24	24	23	14	14	13	5	4	4	0
2	40	36	34	31	34	31	29	27	21	20	19	12	12	11	4	4	4	0
3	36	32	29	26	31	27	25	22	19	17	16	11	10	9	3	3	3	0
4	33	28	24	22	28	24	21	19	17	15	13	10	9	8	3	3	3	0
5	30	25	21	18	26	21	18	16	15	13	11	9	8	7	3	2	2	0
6	28	22	18	16	24	19	16	14	13	11	10	8	7	6	2	2	2	0
7	26	20	16	14	22	17	14	12	12	10	8	7	6	5	2	2	2	0
8	24	18	14	12	20	15	12	10	11	9	7	6	5	4	2	2	1	0
9	22	16	13	10	19	14	11	9	10	8	6	6	5	4	2	2	1	0
10	20	15	11	9	17	13	10	8	9	7	6	5	4	3	2	1	1	0

POLAR GRAPH



Maximum Candela = 2198.644 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)