IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-8-00-L8-835-F-DIM-UNV_.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] 15-MAR-2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4-72 LED 23.75" ARRAYS 8' UPLIGHT LUMINAIRE
[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS
[LUMCAT] MX4WU-8-00-L15-835-F-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	58.4
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

	0.0	22.5	45.0	67.5	90.0
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	122.270	119.825	124.715	122.270	129.606
100	259.213	261.658	246.986	259.213	256.767
105	437.727	435.282	435.282	427.945	420.609
110	626.023	616.241	608.905	604.014	591.787
115	828.991	816.764	802.092	777.638	777.638
120	1029.514	1007.506	985.497	973.270	961.043
125	1212.919	1208.029	1183.575	1159.121	1146.893
130	1403.661	1401.215	1376.761	1354.753	1347.416
135	1584.620	1589.511	1562.612	1533.267	1523.485
140	1777.807	1768.026	1750.908	1709.336	1709.336
145	1951.431	1939.204	1912.304	1902.523	1880.514
150	2095.709	2110.382	2083.482	2061.474	2051.692
155	2237.543	2249.770	2230.207	2203.307	2200.862
160	2362.258	2372.040	2352.477	2340.250	2328.023
165	2455.184	2467.411	2450.293	2438.066	2430.729
170	2521.209	2533.436	2518.764	2511.428	2511.428
175	2555.445	2570.117	2557.890	2550.554	2540.773
180	2565.227	2565.227	2565.227	2565.227	2565.227

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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	593.30	N.A.	8.70
90-120	1385.42	N.A.	20.40
90-130	2444.28	N.A.	35.90
90-150	4848.99	N.A.	71.20
90-180	6807.71	N.A.	100.00
110-180	6214.42	N.A.	91.30
0-180	6807.71	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	136.89
100-110	456.41
110-120	792.12
120-130	1058.86
130-140	1204.99
140-150	1199.71
150-160	1025.32
160-170	690.56
170-180	242.84

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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	56	56	56	56	48	48	48	48	33	33	33	19	19	19	6	6	6	0
1	51	49	47	45	44	42	40	39	29	28	27	16	16	16	5	5	5	0
2	47	43	39	37	40	36	34	32	25	23	22	14	14	13	5	4	4	0
3	42	37	33	30	36	32	29	26	22	20	18	13	12	11	4	4	4	0
4	39	33	29	25	33	28	25	22	19	17	16	11	10	9	4	3	3	0
5	35	29	25	22	30	25	21	19	17	15	13	10	9	8	3	3	3	0
6	32	26	22	18	28	22	19	16	15	13	11	9	8	7	3	3	2	0
7	30	23	19	16	25	20	16	14	14	11	10	8	7	6	3	2	2	0
8	28	21	17	14	23	18	14	12	12	10	9	7	6	5	2	2	2	0
9	25	19	15	12	22	16	13	11	11	9	7	7	5	4	2	2	1	0
10	24	17	13	11	20	15	11	9	10	8	7	6	5	4	2	2	1	0

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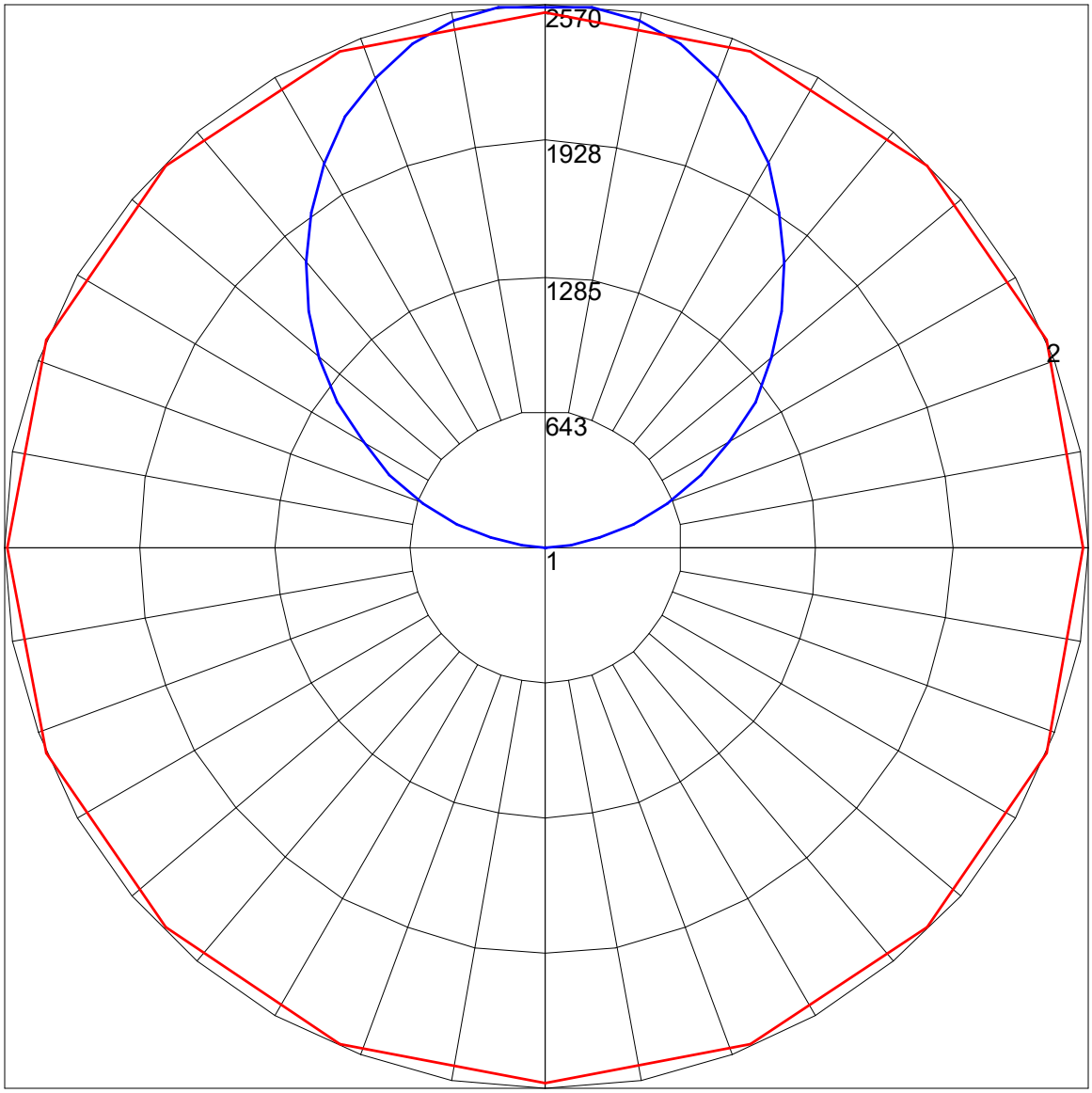
POLAR GRAPH



Maximum Candela = 2570.117 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.)

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