IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-8-00-L12-835-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-L12-835-F-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	11
Total Luminaire Watts	864
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	170.546	167.135	173.957	170.546	180.779
100	361.557	364.968	344.503	361.557	358.146
105	610.554	607.144	607.144	596.911	586.678
110	873.195	859.552	849.319	842.497	825.442
115	1156.302	1139.247	1118.781	1084.672	1084.672
120	1435.997	1405.299	1374.600	1357.546	1340.491
125	1691.816	1684.994	1650.885	1616.776	1599.721
130	1957.867	1954.457	1920.347	1889.649	1879.416
135	2210.275	2217.097	2179.577	2138.646	2125.003
140	2479.738	2466.094	2442.218	2384.232	2384.232
145	2721.913	2704.859	2667.339	2653.695	2622.997
150	2923.158	2943.623	2906.103	2875.405	2861.761
155	3120.991	3138.045	3110.758	3073.238	3069.827
160	3294.948	3308.591	3281.304	3264.249	3247.195
165	3424.563	3441.617	3417.741	3400.686	3390.453
170	3516.657	3533.712	3513.247	3503.014	3503.014
175	3564.410	3584.876	3567.821	3557.588	3543.945
180	3578.054	3578.054	3578.054	3578.054	3578.054

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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	827.55	N.A.	8.70
90-120	1932.42	N.A.	20.40
90-130	3409.35	N.A.	35.90
90-150	6763.51	N.A.	71.20
90-180	9495.6	N.A.	100.00
110-180	8668.05	N.A.	91.30
0-180	9495.6	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	190.94
100-110	636.61
110-120	1104.87
120-130	1476.93
130-140	1680.76
140-150	1673.4
150-160	1430.15
160-170	963.22
170-180	338.72

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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	78	78	78	78	67	67	67	67	46	46	46	26	26	26	8	8	8	0
1	71	68	65	62	61	58	56	54	40	38	37	23	22	22	7	7	7	0
2	65	59	55	51	55	51	47	44	35	33	31	20	19	18	6	6	6	0
3	59	52	47	42	50	45	40	37	31	28	26	18	16	15	6	5	5	0
4	54	46	40	35	46	39	34	31	27	24	22	16	14	13	5	5	4	0
5	49	41	35	30	42	35	30	26	24	21	18	14	12	11	4	4	4	0
6	45	36	30	26	38	31	26	22	21	18	16	12	11	9	4	4	3	0
7	42	32	26	22	35	28	23	19	19	16	14	11	9	8	4	3	3	0
8	38	29	23	19	33	25	20	17	17	14	12	10	8	7	3	3	2	0
9	36	26	21	17	30	23	18	15	16	13	10	9	7	6	3	2	2	0
10	33	24	18	15	28	21	16	13	14	11	9	8	7	5	3	2	2	0

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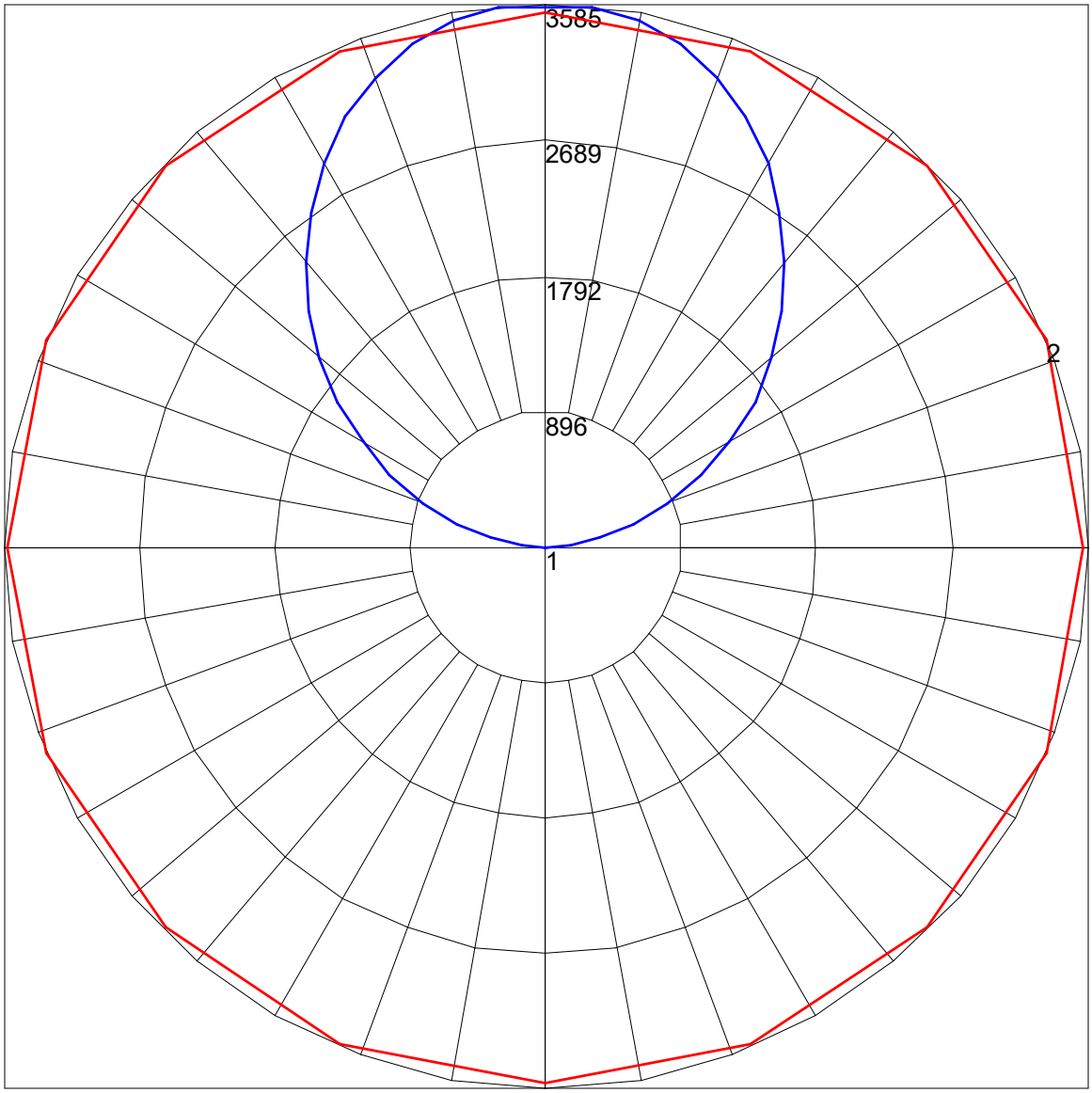
POLAR GRAPH



Maximum Candela = 3584.876 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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