IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-8-00-L15-835-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	11521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	108
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	206.925	202.787	211.064	206.925	219.341
100	438.681	442.820	417.989	438.681	434.543
105	740.792	736.653	736.653	724.238	711.822
110	1059.456	1042.902	1030.487	1022.210	1001.517
115	1402.952	1382.259	1357.428	1316.043	1316.043
120	1742.309	1705.062	1667.816	1647.123	1626.431
125	2052.696	2044.419	2003.034	1961.649	1940.957
130	2375.499	2371.361	2329.976	2292.729	2280.314
135	2681.748	2690.025	2644.502	2594.840	2578.286
140	3008.690	2992.136	2963.166	2892.812	2892.812
145	3302.523	3281.831	3236.307	3219.753	3182.507
150	3546.695	3571.526	3526.002	3488.756	3472.202
155	3786.728	3807.420	3774.312	3728.789	3724.650
160	3997.791	4014.345	3981.237	3960.545	3939.852
165	4155.054	4175.747	4146.777	4126.085	4113.669
170	4266.794	4287.486	4262.655	4250.240	4250.240
175	4324.733	4349.564	4328.871	4316.456	4299.902
180	4341.287	4341.287	4341.287	4341.287	4341.287

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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	1004.07	N.A.	8.70
90-120	2344.62	N.A.	20.40
90-130	4136.6	N.A.	35.90
90-150	8206.23	N.A.	71.20
90-180	11521.1	N.A.	100.00
110-180	10517.03	N.A.	91.30
0-180	11521.1	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	231.67
100-110	772.40
110-120	1340.56
120-130	1791.98
130-140	2039.28
140-150	2030.35
150-160	1735.22
160-170	1168.68
170-180	410.97

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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	190	190	190	190	163	163	163	163	111	111	111	64	64	64	20	20	20	0
1	173	165	158	152	148	141	136	131	97	93	90	56	54	52	18	17	17	0
2	158	144	133	124	134	123	114	107	85	79	75	49	46	44	16	15	14	0
3	143	126	113	102	122	108	97	89	74	68	62	43	40	37	14	13	12	0
4	131	111	97	86	111	95	84	75	66	58	53	38	34	31	12	11	10	0
5	120	99	84	73	102	85	72	63	58	51	45	34	30	27	11	10	9	0
6	110	88	73	62	93	75	63	54	52	44	38	30	26	23	10	9	8	0
7	101	78	64	54	86	68	55	47	47	39	33	27	23	20	9	7	7	0
8	93	71	56	47	79	61	49	41	42	34	29	24	20	17	8	7	6	0
9	86	64	50	41	73	55	44	36	38	31	25	22	18	15	7	6	5	0
10	80	58	45	36	68	50	39	31	35	27	22	20	16	13	7	5	4	0

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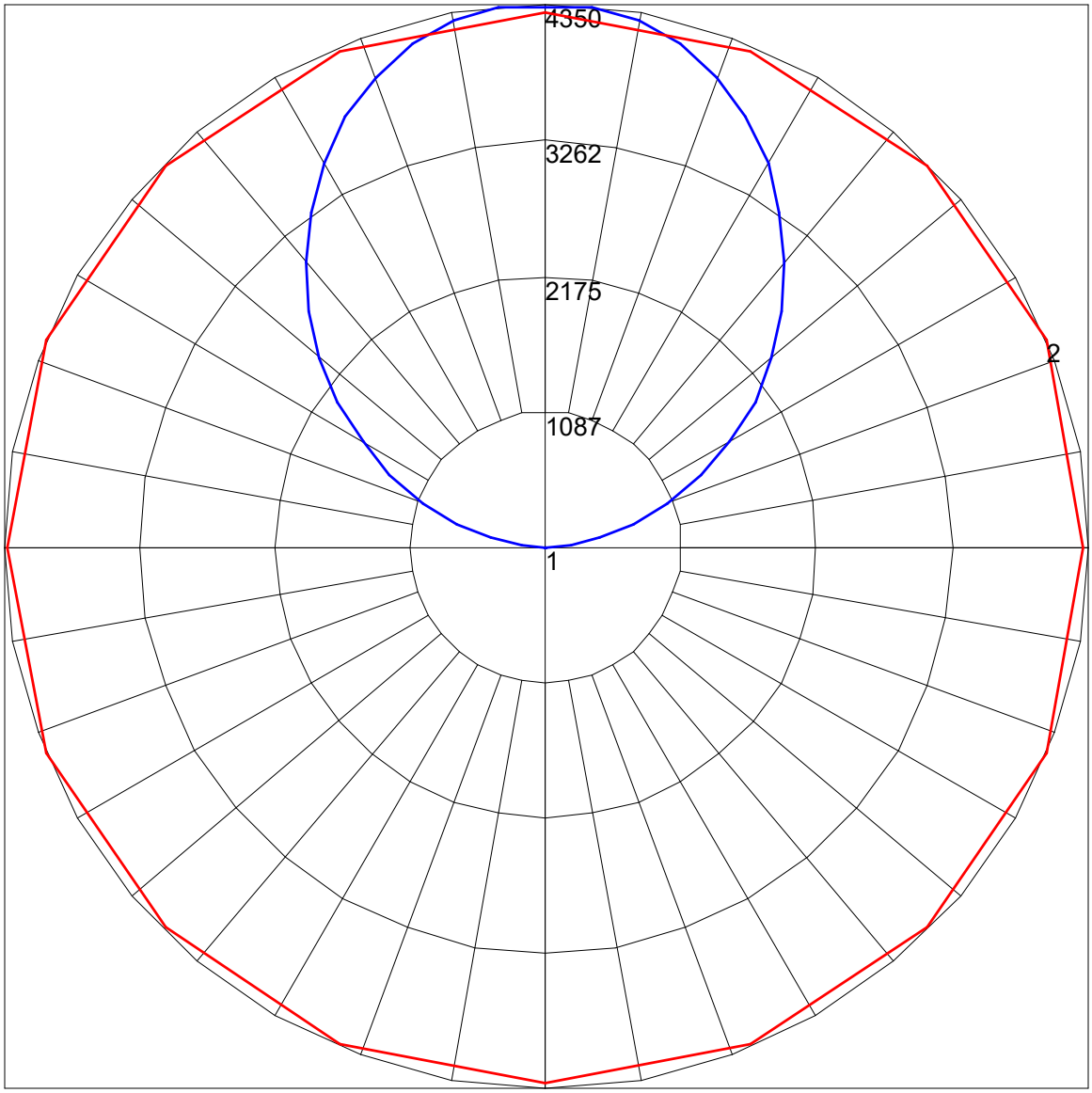
POLAR GRAPH



Maximum Candela = 4349.564 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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