IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-8-00-P7-835-F-POE-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-P7-835-F-PoE-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5823
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

	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	104.590	102.498	106.682	104.590	110.865
100	221.731	223.823	211.272	221.731	219.639
105	374.432	372.340	372.340	366.065	359.790
110	535.501	527.134	520.858	516.675	506.216
115	709.120	698.661	686.110	665.192	665.192
120	880.648	861.822	842.995	832.536	822.077
125	1037.533	1033.349	1012.431	991.513	981.054
130	1200.693	1198.601	1177.683	1158.857	1152.582
135	1355.486	1359.670	1336.660	1311.559	1303.191
140	1520.739	1512.371	1497.729	1462.168	1462.168
145	1669.256	1658.797	1635.788	1627.420	1608.594
150	1792.673	1805.223	1782.214	1763.387	1755.020
155	1913.997	1924.456	1907.722	1884.712	1882.620
160	2020.679	2029.046	2012.312	2001.853	1991.394
165	2100.167	2110.626	2095.984	2085.525	2079.249
170	2156.646	2167.105	2154.554	2148.279	2148.279
175	2185.931	2198.482	2188.023	2181.747	2173.380
180	2194.298	2194.298	2194.298	2194.298	2194.298

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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	507.51	N.A.	8.70
90-120	1185.09	N.A.	20.40
90-130	2090.84	N.A.	35.90
90-150	4147.83	N.A.	71.20
90-180	5823.32	N.A.	100.00
110-180	5315.82	N.A.	91.30
0-180	5823.32	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	390.41
110-120	677.58
120-130	905.75
130-140	1030.75
140-150	1026.24
150-160	877.06
160-170	590.71
170-180	207.72

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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	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	130	97	93	90	56	54	52	18	17	17	0
2	158	144	133	124	134	123	114	107	85	79	74	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	98	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	67	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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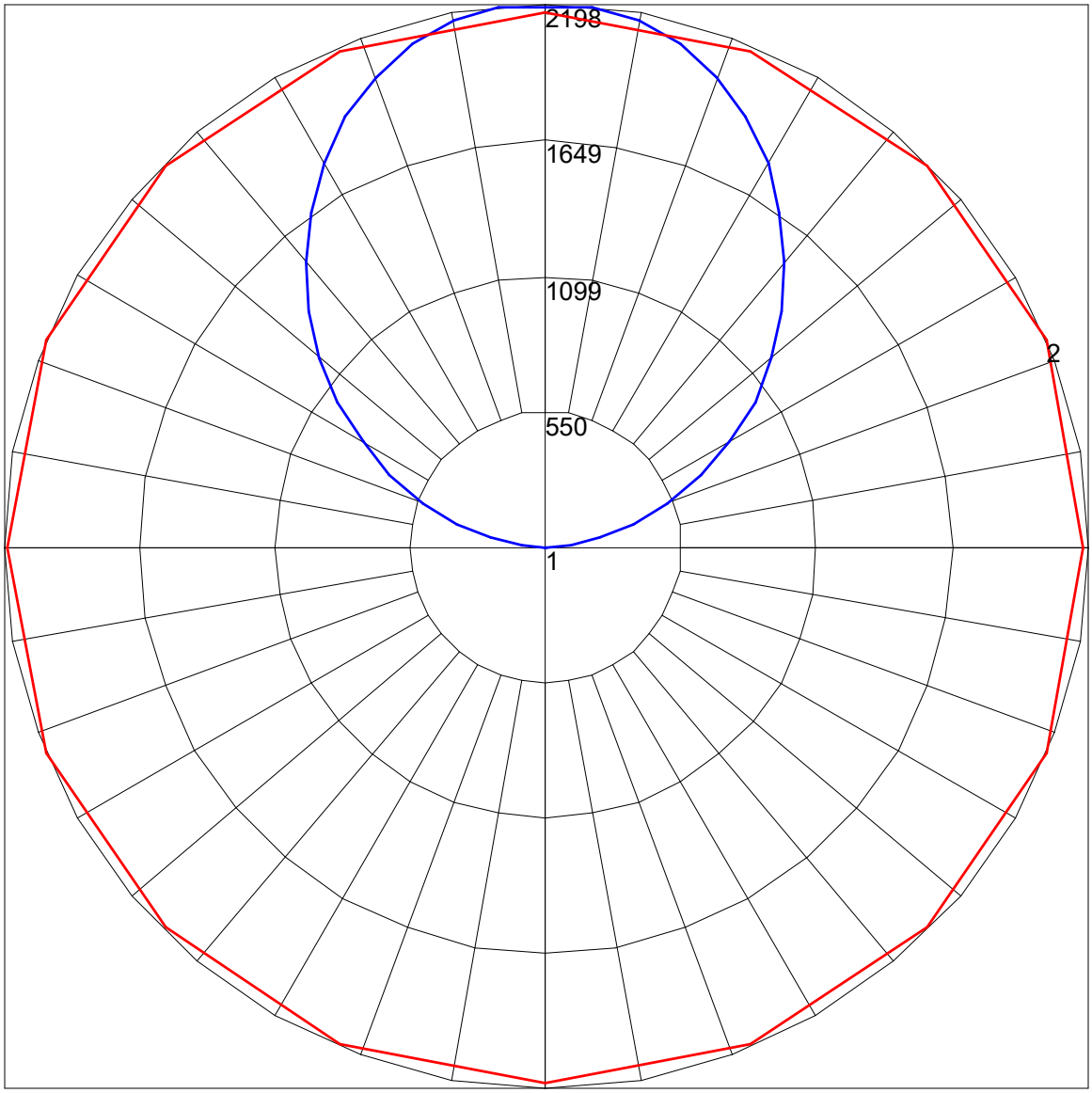
POLAR GRAPH



Maximum Candela = 2198.482 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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