IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-4-00-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] 2-72 LED 23.75" ARRAYS 4' UPLIGHT LUMINAIRE
[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS
[LUMCAT] MX4WU-4-00-P7-835-F-PoE-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	24
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)	4.00 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	52.299	51.253	53.345	52.299	55.437
100	110.874	111.920	105.644	110.874	109.828
105	187.230	186.184	186.184	183.046	179.908
110	267.770	263.586	260.448	258.356	253.126
115	354.586	349.356	343.080	332.621	332.621
120	440.356	430.943	421.529	416.299	411.069
125	518.805	516.713	506.253	495.793	490.563
130	600.391	599.345	588.885	579.471	576.333
135	677.793	679.885	668.379	655.828	651.644
140	760.425	756.241	748.920	731.138	731.138
145	834.690	829.460	817.954	813.770	804.356
150	896.402	902.678	891.172	881.759	877.575
155	957.069	962.299	953.931	942.425	941.379
160	1010.414	1014.598	1006.230	1001.000	995.770
165	1050.161	1055.391	1048.069	1042.839	1039.701
170	1078.402	1083.632	1077.356	1074.218	1074.218
175	1093.046	1099.322	1094.092	1090.954	1086.770
180	1097.230	1097.230	1097.230	1097.230	1097.230

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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	253.77	N.A.	8.70
90-120	592.59	N.A.	20.40
90-130	1045.5	N.A.	35.90
90-150	2074.07	N.A.	71.20
90-180	2911.88	N.A.	100.00
110-180	2658.11	N.A.	91.30
0-180	2911.88	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	58.55
100-110	195.22
110-120	338.82
120-130	452.91
130-140	515.41
140-150	513.16
150-160	438.56
160-170	295.38
170-180	103.87

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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	81	81	81	81	70	70	70	70	48	48	48	27	27	27	9	9	9	0
1	74	71	68	65	63	60	58	56	41	40	39	24	23	22	8	7	7	0
2	67	62	57	53	57	53	49	46	36	34	32	21	20	19	7	6	6	0
3	61	54	48	44	52	46	42	38	32	29	27	18	17	16	6	5	5	0
4	56	48	41	37	48	41	36	32	28	25	22	16	15	13	5	5	4	0
5	51	42	36	31	43	36	31	27	25	22	19	14	13	11	5	4	4	0
6	47	38	31	27	40	32	27	23	22	19	16	13	11	10	4	4	3	0
7	43	34	27	23	37	29	24	20	20	17	14	12	10	8	4	3	3	0
8	40	30	24	20	34	26	21	17	18	15	12	10	9	7	3	3	2	0
9	37	27	21	17	31	24	19	15	16	13	11	9	8	6	3	3	2	0
10	34	25	19	15	29	21	17	13	15	12	10	9	7	6	3	2	2	0

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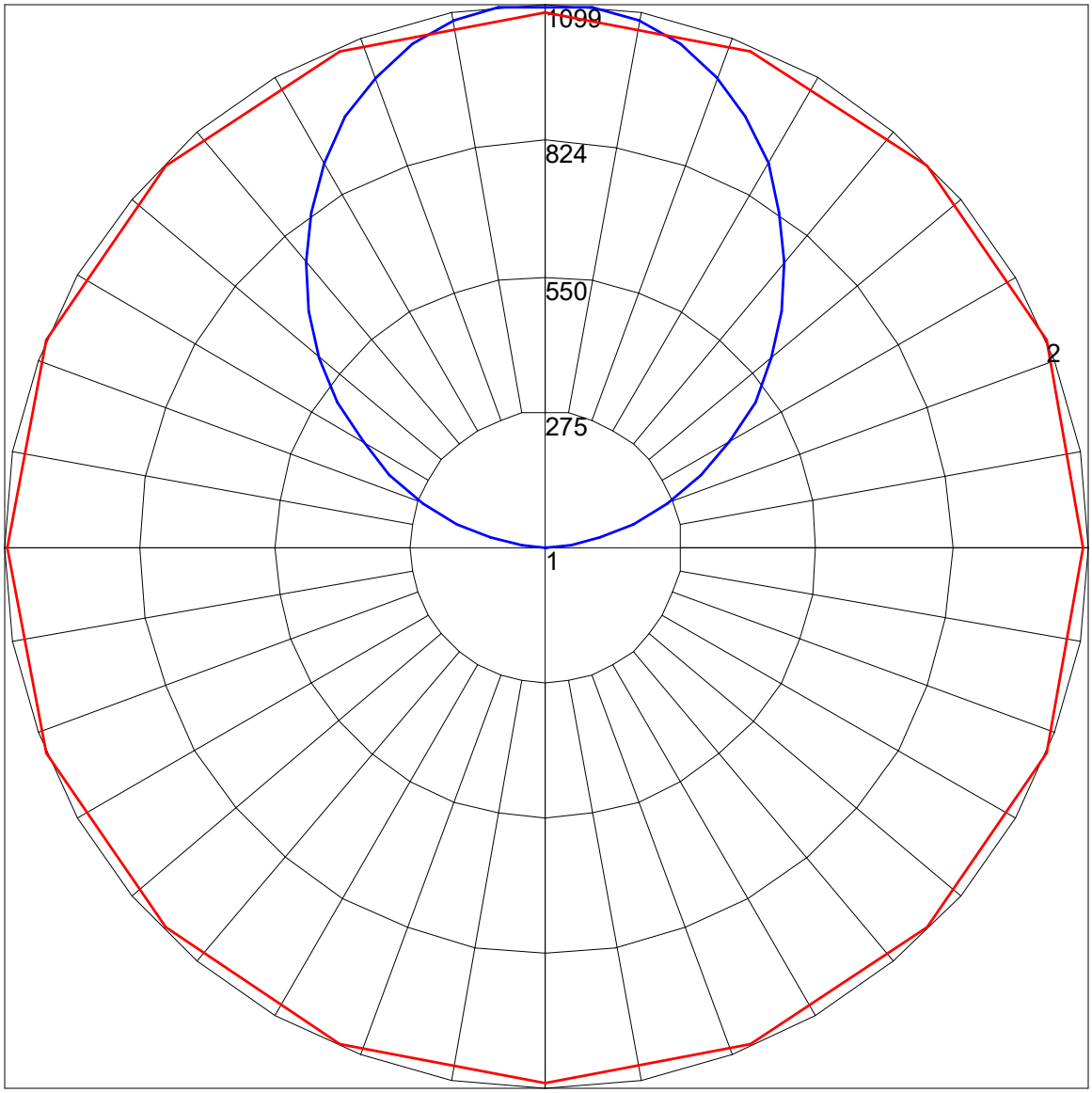
POLAR GRAPH



Maximum Candela = 1099.322 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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