IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-4-00-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] 2-72 LED 23.75" ARRAYS 4' UPLIGHT LUMINAIRE
[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS
[LUMCAT] MX4WU-4-00-L8-835-F-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	29.2
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	61.135	59.912	62.358	61.135	64.803
100	129.606	130.829	123.493	129.606	128.384
105	218.863	217.641	217.641	213.973	210.305
110	313.011	308.121	304.453	302.007	295.894
115	414.496	408.382	401.046	388.819	388.819
120	514.757	503.753	492.748	486.635	480.521
125	606.460	604.014	591.787	579.560	573.447
130	701.830	700.608	688.381	677.376	673.708
135	792.310	794.756	781.306	766.633	761.743
140	888.904	884.013	875.454	854.668	854.668
145	975.715	969.602	956.152	951.261	940.257
150	1047.855	1055.191	1041.741	1030.737	1025.846
155	1118.771	1124.885	1115.103	1101.654	1100.431
160	1181.129	1186.020	1176.238	1170.125	1164.011
165	1227.592	1233.705	1225.146	1219.033	1215.365
170	1260.605	1266.718	1259.382	1255.714	1255.714
175	1277.722	1285.059	1278.945	1275.277	1270.386
180	1282.613	1282.613	1282.613	1282.613	1282.613

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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	296.65	N.A.	8.70
90-120	692.71	N.A.	20.40
90-130	1222.14	N.A.	35.90
90-150	2424.49	N.A.	71.20
90-180	3403.86	N.A.	100.00
110-180	3107.21	N.A.	91.30
0-180	3403.86	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	68.44
100-110	228.20
110-120	396.06
120-130	529.43
130-140	602.50
140-150	599.86
150-160	512.66
160-170	345.28
170-180	121.42

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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	67	67	67	67	57	57	57	57	39	39	39	22	22	22	7	7	7	0
1	61	58	55	53	52	50	48	46	34	33	32	19	19	18	6	6	6	0
2	55	50	47	43	47	43	40	37	30	28	26	17	16	15	5	5	5	0
3	50	44	40	36	43	38	34	31	26	24	22	15	14	13	5	4	4	0
4	46	39	34	30	39	33	29	26	23	20	18	13	12	11	4	4	4	0
5	42	35	29	26	36	30	25	22	20	18	16	12	10	9	4	3	3	0
6	38	31	26	22	33	26	22	19	18	15	13	11	9	8	3	3	3	0
7	35	27	22	19	30	24	19	16	16	14	12	9	8	7	3	3	2	0
8	33	25	20	16	28	21	17	14	15	12	10	9	7	6	3	2	2	0
9	30	22	18	14	26	19	15	13	13	11	9	8	6	5	3	2	2	0
10	28	20	16	13	24	18	14	11	12	10	8	7	6	5	2	2	2	0

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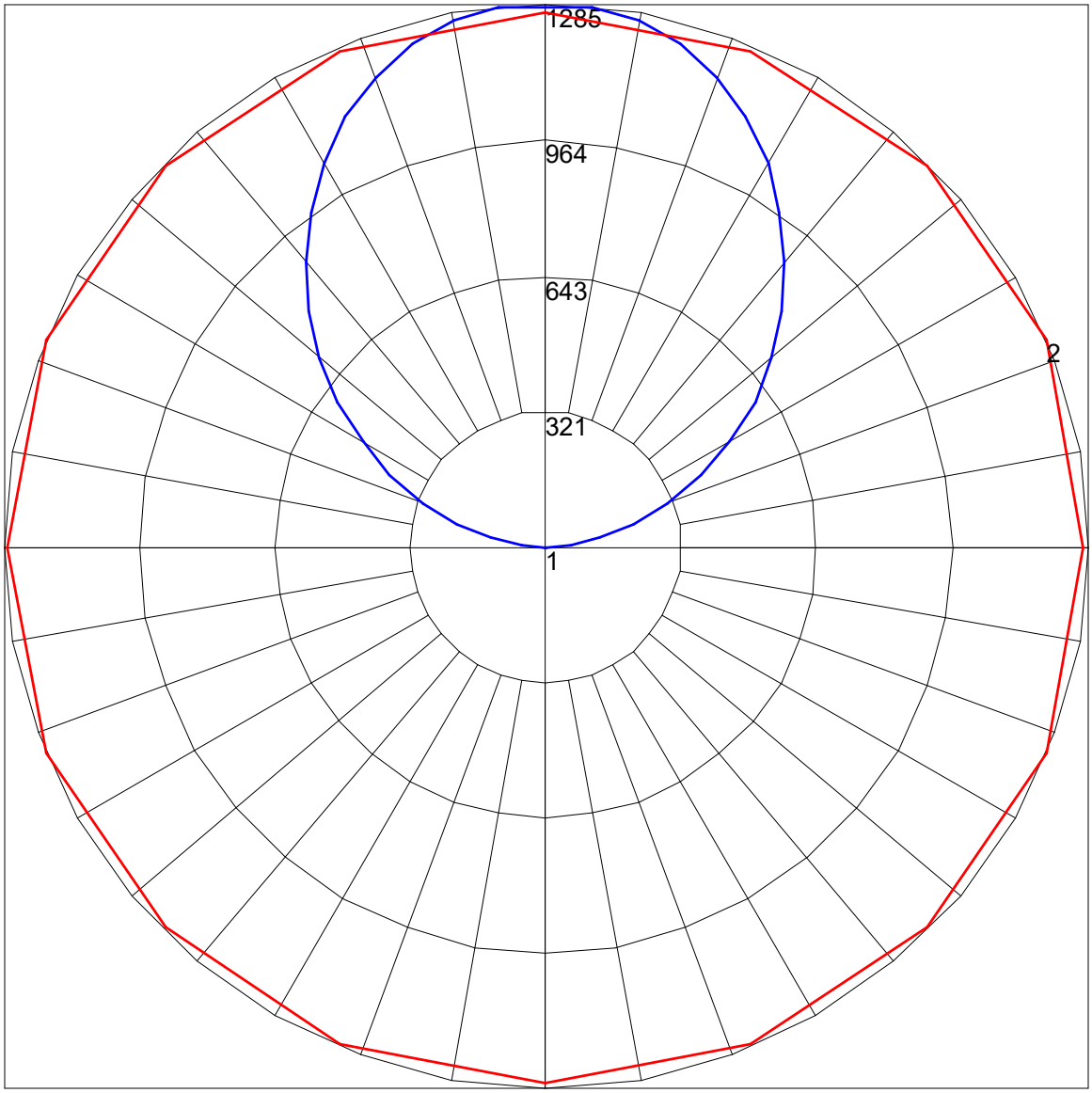
POLAR GRAPH



Maximum Candela = 1285.059 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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