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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	40
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	104.020	101.940	106.100	104.020	110.261
100	220.522	222.603	210.120	220.522	218.442
105	372.392	370.311	370.311	364.070	357.829
110	532.582	524.261	518.020	513.859	503.457
115	705.256	694.854	682.371	661.567	661.567
120	875.848	857.125	838.401	827.999	817.597
125	1031.878	1027.718	1006.914	986.110	975.708
130	1194.150	1192.069	1171.265	1152.542	1146.300
135	1348.099	1352.260	1329.376	1304.411	1296.089
140	1512.451	1504.129	1489.566	1454.200	1454.200
145	1660.159	1649.757	1626.873	1618.551	1599.828
150	1782.903	1795.385	1772.501	1753.777	1745.456
155	1903.566	1913.968	1897.325	1874.440	1872.360
160	2009.666	2017.988	2001.345	1990.943	1980.541
165	2088.722	2099.124	2084.561	2074.159	2067.918
170	2144.892	2155.294	2142.812	2136.571	2136.571
175	2174.018	2186.500	2176.098	2169.857	2161.536
180	2182.340	2182.340	2182.340	2182.340	2182.340

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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	504.74	N.A.	8.70
90-120	1178.63	N.A.	20.40
90-130	2079.45	N.A.	35.90
90-150	4125.22	N.A.	71.20
90-180	5791.59	N.A.	100.00
110-180	5286.85	N.A.	91.30
0-180	5791.59	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	116.46
100-110	388.28
110-120	673.89
120-130	900.82
130-140	1025.14
140-150	1020.64
150-160	872.28
160-170	587.49
170-180	206.59

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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	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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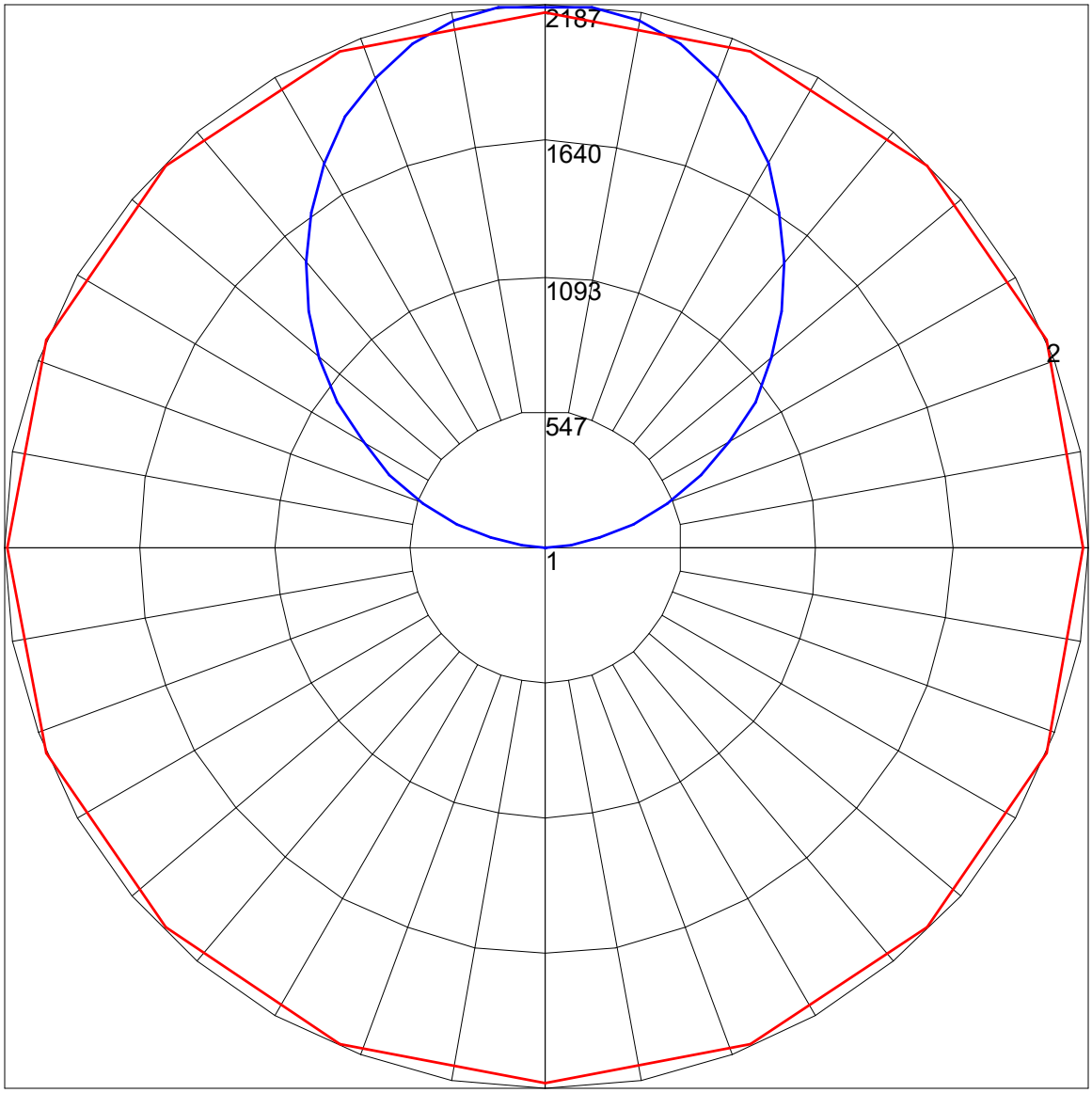
POLAR GRAPH



Maximum Candela = 2186.5 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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