



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-L8-8TW-F-A-DIM-UNV 4000K_.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] 13-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72 LED 23.75" ARRAYS 8' UPLIGHT LUMINAIRE

[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS

[LUMCAT] MX4U-8-00-P7-8TW-F-A-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6768
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	53.6
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

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
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	121.552	119.121	123.983	121.552	128.845
100	257.690	260.121	245.534	257.690	255.259
105	435.155	432.724	432.724	425.431	418.138
110	622.345	612.621	605.327	600.465	588.310
115	824.121	811.965	797.379	773.069	773.069
120	1023.465	1001.586	979.707	967.552	955.396
125	1205.793	1200.931	1176.620	1152.310	1140.155
130	1395.414	1392.983	1368.672	1346.793	1339.500
135	1575.310	1580.172	1553.431	1524.258	1514.534
140	1767.362	1757.638	1740.620	1699.293	1699.293
145	1939.965	1927.810	1901.069	1891.345	1869.465
150	2083.396	2097.982	2071.241	2049.362	2039.638
155	2224.396	2236.551	2217.103	2190.362	2187.931
160	2348.379	2358.103	2338.655	2326.500	2314.344
165	2440.758	2452.913	2435.896	2423.741	2416.448
170	2506.396	2518.551	2503.965	2496.672	2496.672
175	2540.431	2555.017	2542.862	2535.569	2525.844
180	2550.155	2550.155	2550.155	2550.155	2550.155

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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	589.81	N.A.	8.70
90-120	1377.28	N.A.	20.40
90-130	2429.92	N.A.	35.90
90-150	4820.5	N.A.	71.20
90-180	6767.71	N.A.	100.00
110-180	6177.9	N.A.	91.30
0-180	6767.71	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	136.09
100-110	453.72
110-120	787.47
120-130	1052.64
130-140	1197.91
140-150	1192.66
150-160	1019.3
160-170	686.51
170-180	241.41

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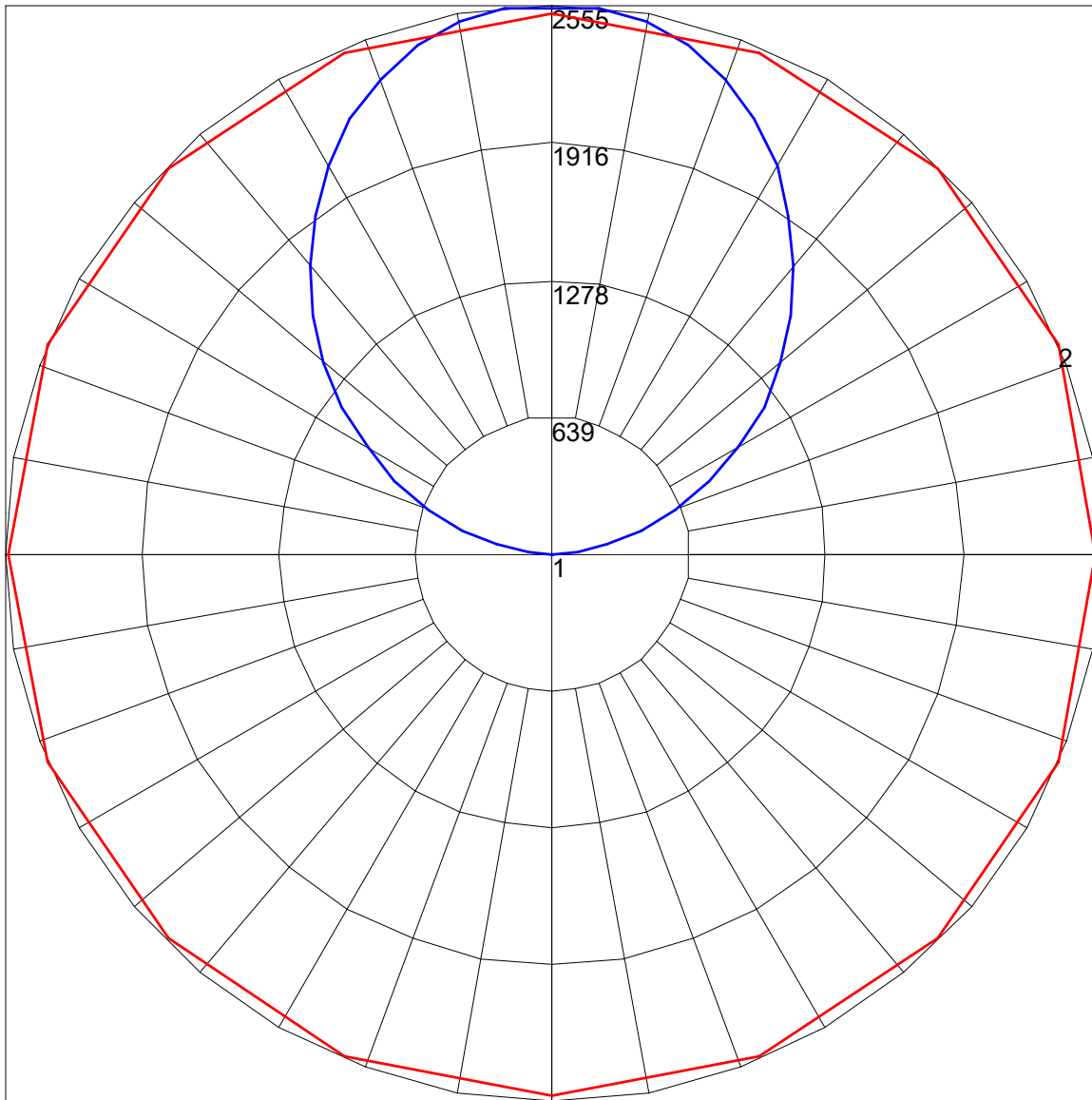
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 2555.017 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.)