



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-L12-835-F-(L8.5)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20656.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIOES, INC

[ISSUEDATE] 16-APR-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 8' INDIRECT SUSPENDED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] MX4U-8-00-L12-835-F-(L8.5)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Indirect

[\_SEARCH\_MOUNTING] Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	53.4
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)	0.33 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	85.310	89.373	85.310	85.310	77.185
100	194.995	194.995	194.995	174.683	170.620
105	337.178	337.178	308.742	296.554	284.367
110	544.360	519.986	471.237	430.613	426.551
115	771.854	731.230	658.107	613.421	601.234
120	1007.472	954.661	873.414	800.291	788.103
125	1279.653	1214.654	1096.845	1019.660	987.161
130	1564.020	1490.897	1348.713	1255.278	1239.029
135	1803.701	1689.954	1604.644	1507.146	1490.897
140	2051.506	1962.134	1844.325	1754.952	1730.578
145	2274.938	2246.501	2071.818	1986.508	1966.196
150	2465.870	2433.371	2279.000	2209.940	2173.378
155	2632.428	2591.804	2465.870	2429.309	2392.747
160	2774.612	2750.237	2668.990	2624.303	2591.804
165	2876.171	2876.171	2819.298	2786.799	2758.362
170	2953.357	2961.482	2937.107	2924.920	2900.546
175	2993.981	3014.293	3006.168	2989.918	2977.731
180	3014.293	3014.293	3014.293	3014.293	3014.293

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4U-8-00-L12-835-F-(L8.5)-DIM-UNV\_.IES****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	437.68	N.A.	6.30
90-120	1106.4	N.A.	16.00
90-130	2109.62	N.A.	30.60
90-150	4669.24	N.A.	67.70
90-180	6901.35	N.A.	100.00
110-180	6463.67	N.A.	93.70
0-180	6901.35	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	97.32
100-110	340.36
110-120	668.72
120-130	1003.22
130-140	1246.93
140-150	1312.68
150-160	1152.21
160-170	795.65
170-180	284.26

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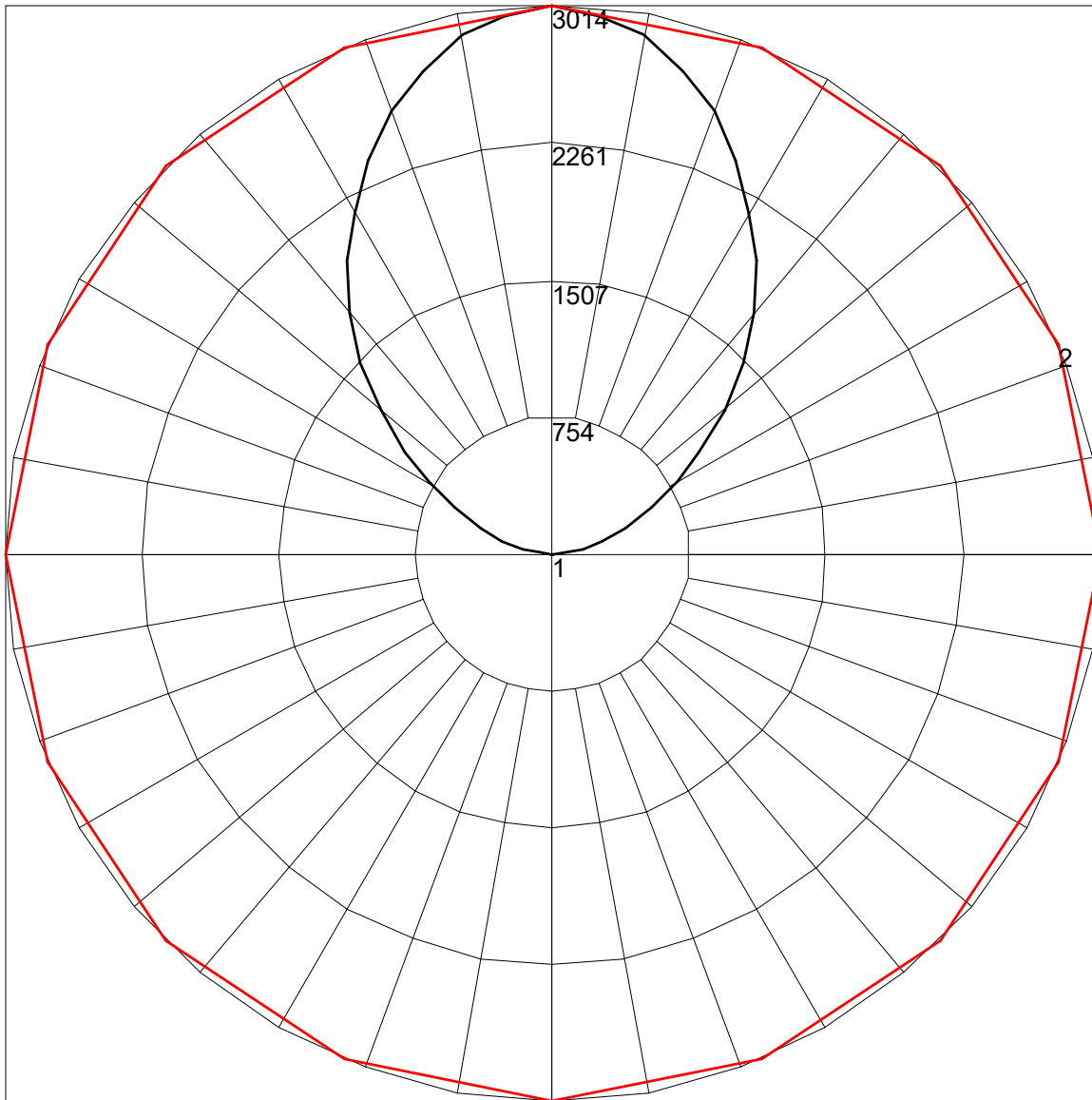
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	385	385	385	385	329	329	329	329	225	225	225	129	129	129	41	41	41	0
1	350	334	320	307	299	286	274	264	196	189	183	113	109	106	36	35	34	0
2	319	291	269	250	271	250	231	216	171	160	151	99	93	88	32	30	29	0
3	290	255	228	207	247	219	197	179	150	137	126	87	80	74	28	26	24	0
4	265	225	196	174	225	193	169	151	133	118	106	77	69	63	25	22	21	0
5	242	199	169	147	206	171	147	128	118	102	90	68	60	54	22	20	18	0
6	222	177	148	126	189	152	128	110	105	89	78	61	53	46	20	17	15	0
7	204	159	129	109	173	137	112	95	94	79	67	55	46	40	18	15	13	0
8	188	143	114	95	160	123	99	82	85	70	58	49	41	35	16	13	12	0
9	174	129	101	83	148	111	88	72	77	62	51	45	37	31	15	12	10	0
10	162	117	91	73	138	101	79	64	70	55	45	41	33	27	13	11	9	0

POLAR GRAPH



Maximum Candela = 3014.293 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)