

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-A-(L4)-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

[ISSUE DATE] 10-29-2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' INDIRECT SUSPENDED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] MX4U-4-00-L8-835-A-(L4)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE TYPE] 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	1644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	12
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

	<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	29.526	28.935	30.116	29.526	31.297
100	62.595	63.185	59.642	62.595	62.004
105	105.703	105.112	105.112	103.341	101.569
110	151.172	148.810	147.039	145.858	142.905
115	200.185	197.233	193.690	187.784	187.784
120	248.608	243.293	237.978	235.026	232.073
125	292.897	291.716	285.810	279.905	276.953
130	338.957	338.366	332.461	327.147	325.375
135	382.655	383.836	377.341	370.254	367.892
140	429.306	426.944	422.810	412.772	412.772
145	471.233	468.280	461.784	459.422	454.108
150	506.073	509.616	503.121	497.806	495.444
155	540.323	543.276	538.552	532.056	531.466
160	570.440	572.802	568.078	565.125	562.172
165	592.879	595.832	591.698	588.746	586.974
170	608.823	611.776	608.233	606.461	606.461
175	617.090	620.634	617.681	615.909	613.547
180	619.453	619.453	619.453	619.453	619.453

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-A-(L4)-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	143.27	N.A.	8.70
90-120	334.55	N.A.	20.40
90-130	590.25	N.A.	35.90
90-150	1170.94	N.A.	71.20
90-180	1643.93	N.A.	100.00
110-180	1500.66	N.A.	91.30
0-180	1643.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

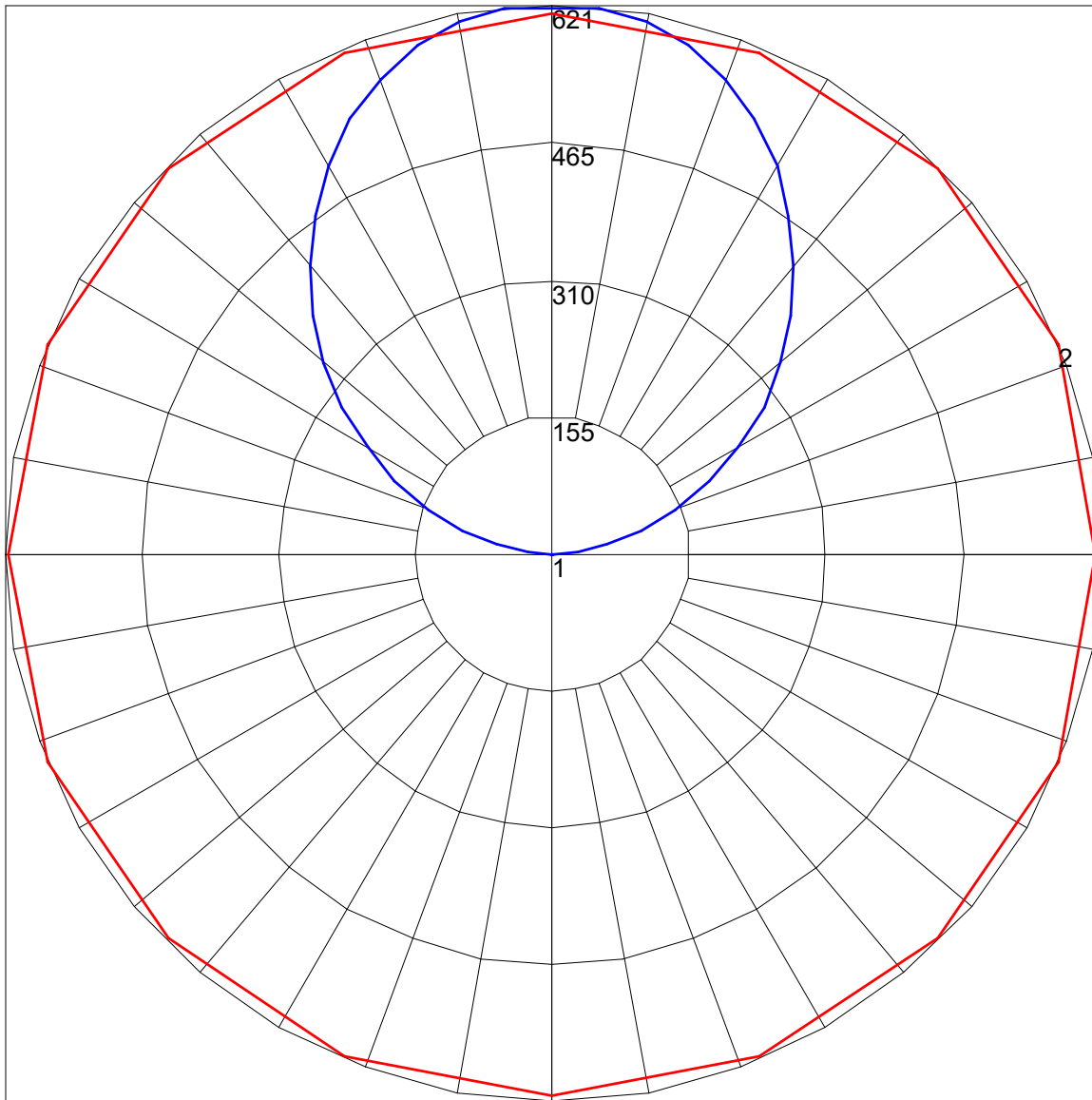
Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	33.06
100-110	110.21
110-120	191.28
120-130	255.69
130-140	290.98
140-150	289.71
150-160	247.60
160-170	166.76
170-180	58.64

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-A-(L4)-DIM-UNV_.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	56	56	56	56	48	48	48	48	33	33	33	19	19	19	6	6	6	0
1	51	49	47	45	44	42	40	39	29	28	27	16	16	15	5	5	5	0
2	47	43	39	36	40	36	34	32	25	23	22	14	14	13	5	4	4	0
3	42	37	33	30	36	32	29	26	22	20	18	13	12	11	4	4	4	0
4	39	33	29	25	33	28	25	22	19	17	16	11	10	9	4	3	3	0
5	35	29	25	22	30	25	21	19	17	15	13	10	9	8	3	3	3	0
6	32	26	22	18	28	22	19	16	15	13	11	9	8	7	3	3	2	0
7	30	23	19	16	25	20	16	14	14	11	10	8	7	6	3	2	2	0
8	27	21	17	14	23	18	14	12	12	10	9	7	6	5	2	2	2	0
9	25	19	15	12	22	16	13	11	11	9	7	7	5	4	2	2	1	0
10	24	17	13	11	20	15	11	9	10	8	7	6	5	4	2	2	1	0

POLAR GRAPH



Maximum Candela = 620.634 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.)