



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-F-(L3)-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] 27-JAN-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-F-(L3)-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	1213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	10.3
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)	0.33 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	14.994	15.708	14.994	14.994	13.566
100	34.272	34.272	34.272	30.702	29.988
105	59.262	59.262	54.264	52.122	49.980
110	95.676	91.392	82.824	75.684	74.970
115	135.660	128.520	115.668	107.814	105.672
120	177.072	167.790	153.510	140.658	138.516
125	224.910	213.486	192.780	179.214	173.502
130	274.890	262.038	237.048	220.626	217.770
135	317.016	297.024	282.030	264.894	262.038
140	360.570	344.862	324.156	308.448	304.164
145	399.840	394.842	364.140	349.146	345.576
150	433.398	427.686	400.554	388.416	381.990
155	462.672	455.532	433.398	426.972	420.546
160	487.662	483.378	469.098	461.244	455.532
165	505.512	505.512	495.516	489.804	484.806
170	519.078	520.506	516.222	514.080	509.796
175	526.218	529.788	528.360	525.504	523.362
180	529.788	529.788	529.788	529.788	529.788

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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	76.93	N.A.	6.30
90-120	194.46	N.A.	16.00
90-130	370.78	N.A.	30.60
90-150	820.66	N.A.	67.70
90-180	1212.97	N.A.	100.00
110-180	1136.05	N.A.	93.70
0-180	1212.97	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	17.10
100-110	59.82
110-120	117.53
120-130	176.32
130-140	219.16
140-150	230.72
150-160	202.51
160-170	139.84
170-180	49.96

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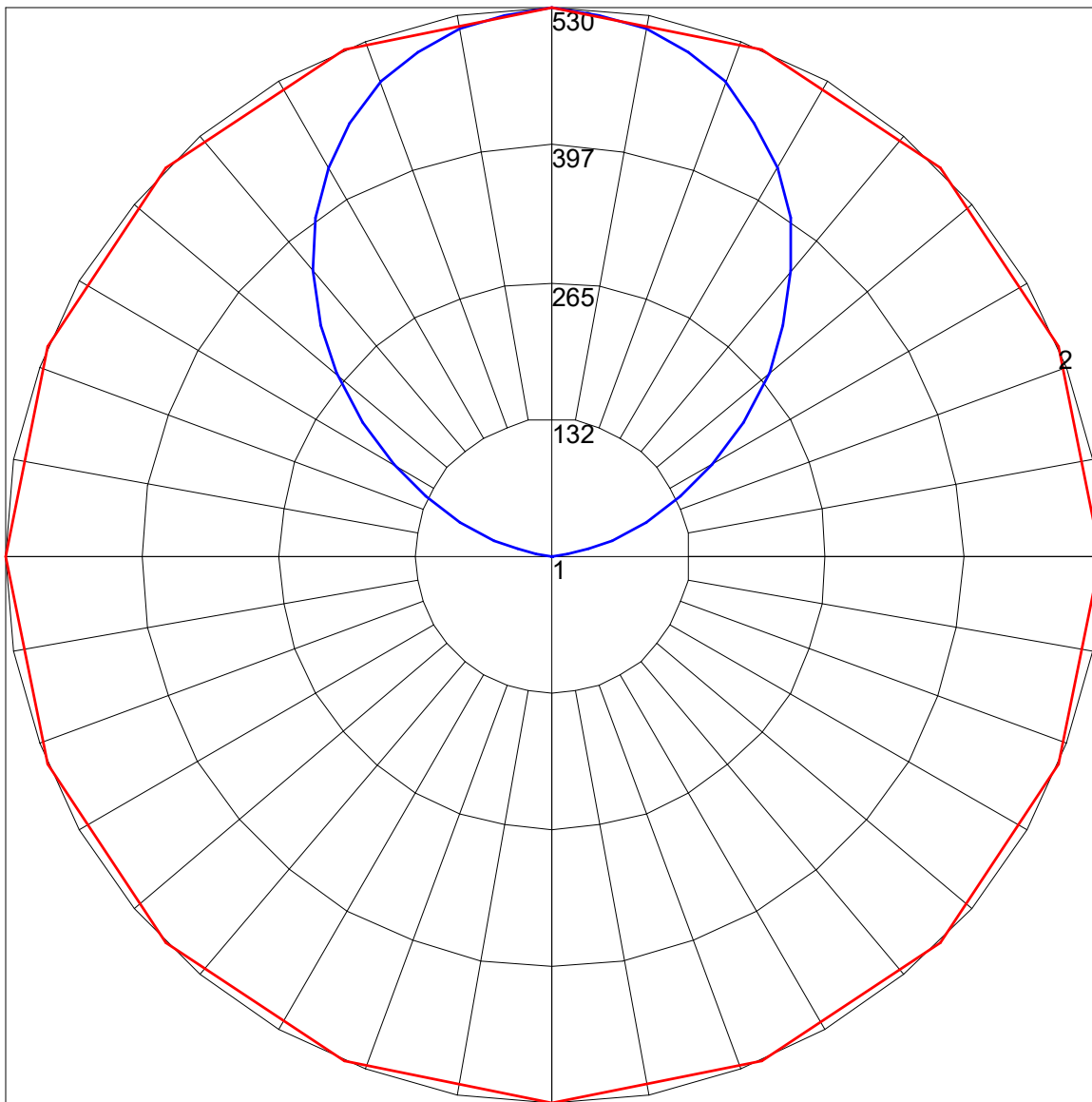
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	141	141	141	141	120	120	120	120	82	82	82	47	47	47	15	15	15	0
1	128	122	117	112	109	104	100	96	71	69	67	41	40	39	13	13	13	0
2	116	106	98	91	99	91	84	79	62	58	55	36	34	32	12	11	10	0
3	106	93	83	76	90	80	72	65	55	50	46	32	29	27	10	9	9	0
4	97	82	71	63	82	70	62	55	48	43	39	28	25	23	9	8	8	0
5	88	73	62	54	75	62	53	47	43	37	33	25	22	20	8	7	6	0
6	81	65	54	46	69	56	47	40	38	33	28	22	19	17	7	6	6	0
7	74	58	47	40	63	50	41	35	34	29	25	20	17	15	6	6	5	0
8	69	52	42	34	58	45	36	30	31	25	21	18	15	13	6	5	4	0
9	64	47	37	30	54	41	32	26	28	23	19	16	13	11	5	4	4	0
10	59	43	33	27	50	37	29	23	26	20	16	15	12	10	5	4	3	0

POLAR GRAPH



Maximum Candela = 529.788 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)