



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-2-00-L8-930-F-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] 04-9-2025
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2' INDIRECT SUSPENDED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] MX4U-2-00-L8-930-F-DIM-UNV
 [LAMPCAT] HLM 90 CRI, 3000K 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	1389
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	13.07
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)	2.00 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

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : MX4U-2-00-L8-930-F-DIM-UNV_.IES

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	17.167	17.985	17.167	17.167	15.532
100	39.240	39.240	39.240	35.152	34.335
105	67.852	67.852	62.130	59.677	57.225
110	109.545	104.640	94.830	86.655	85.837
115	155.325	147.150	132.435	123.442	120.990
120	202.740	192.112	175.762	161.047	158.595
125	257.512	244.432	220.725	205.192	198.652
130	314.737	300.022	271.410	252.607	249.337
135	362.970	340.080	322.912	303.292	300.022
140	412.837	394.852	371.145	353.160	348.255
145	457.800	452.077	416.925	399.757	395.670
150	496.222	489.682	458.617	444.720	437.362
155	529.740	521.565	496.222	488.865	481.507
160	558.352	553.447	537.097	528.105	521.565
165	578.790	578.790	567.345	560.805	555.082
170	594.322	595.957	591.052	588.600	583.695
175	602.497	606.585	604.950	601.680	599.227
180	606.585	606.585	606.585	606.585	606.585

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-2-00-L8-930-F-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	88.08	N.A.	6.30
90-120	222.65	N.A.	16.00
90-130	424.53	N.A.	30.60
90-150	939.62	N.A.	67.70
90-180	1388.8	N.A.	100.00
110-180	1300.72	N.A.	93.70
0-180	1388.8	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	19.58
100-110	68.49
110-120	134.57
120-130	201.88
130-140	250.93
140-150	264.16
150-160	231.87
160-170	160.11
170-180	57.20

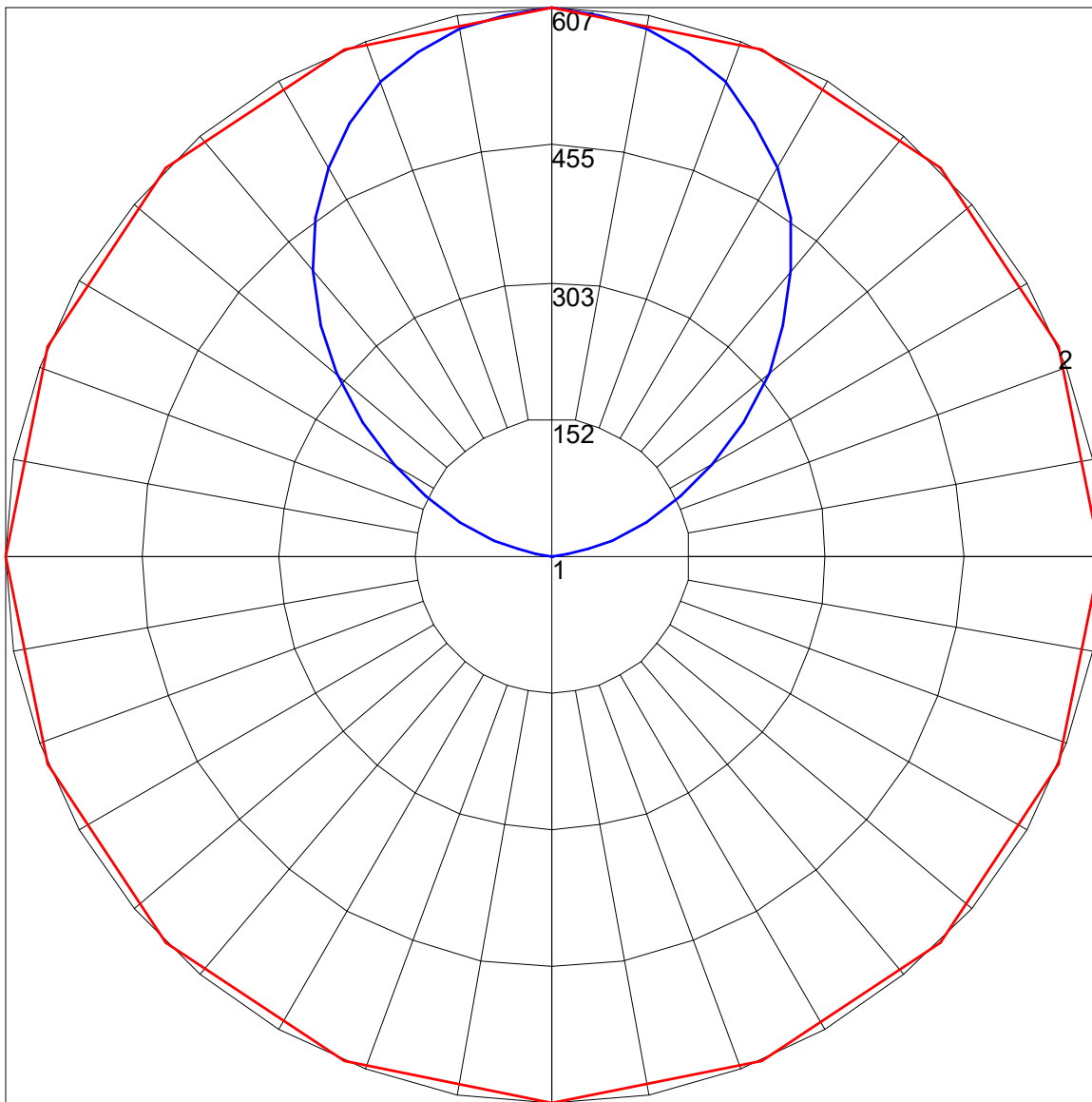
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-2-00-L8-930-F-DIM-UNV_.IES

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	78	78	78	78	66	66	66	66	45	45	45	26	26	26	8	8	8	0
1	71	67	64	62	60	58	55	53	39	38	37	23	22	21	7	7	7	0
2	64	59	54	50	55	50	47	44	35	32	30	20	19	18	6	6	6	0
3	59	52	46	42	50	44	40	36	30	28	25	18	16	15	6	5	5	0
4	53	45	40	35	45	39	34	30	27	24	21	15	14	13	5	5	4	0
5	49	40	34	30	41	35	30	26	24	21	18	14	12	11	4	4	4	0
6	45	36	30	25	38	31	26	22	21	18	16	12	11	9	4	3	3	0
7	41	32	26	22	35	28	23	19	19	16	14	11	9	8	4	3	3	0
8	38	29	23	19	32	25	20	17	17	14	12	10	8	7	3	3	2	0
9	35	26	20	17	30	22	18	15	16	12	10	9	7	6	3	2	2	0
10	33	24	18	15	28	20	16	13	14	11	9	8	7	5	3	2	2	0

POLAR GRAPH



Maximum Candela = 606.585 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.)