



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-4-00-L12-935-F-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
[ISSUEDATE] 11 NOV, 2024
[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-L12-935-F-DIM-UNV
[LAMPCAT] HLM 90 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	3941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	43.2
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-4-00-L12-935-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	70.777	69.361	72.192	70.777	75.023
100	150.046	151.462	142.969	150.046	148.631
105	253.380	251.965	251.965	247.718	243.472
110	362.376	356.714	352.467	349.636	342.559
115	479.865	472.788	464.294	450.139	450.139
120	595.939	583.199	570.459	563.382	556.304
125	702.104	699.273	685.117	670.962	663.885
130	812.515	811.100	796.945	784.205	779.958
135	917.265	920.096	904.525	887.539	881.876
140	1029.092	1023.430	1013.521	989.457	989.457
145	1129.595	1122.517	1106.946	1101.284	1088.544
150	1213.111	1221.604	1206.033	1193.293	1187.631
155	1295.212	1302.289	1290.965	1275.394	1273.979
160	1367.404	1373.066	1361.742	1354.664	1347.586
165	1421.194	1428.272	1418.363	1411.285	1407.039
170	1459.413	1466.491	1457.998	1453.751	1453.751
175	1479.231	1487.724	1480.646	1476.400	1470.738
180	1484.893	1484.893	1484.893	1484.893	1484.893

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-4-00-L12-935-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	343.43	N.A.	8.70
90-120	801.95	N.A.	20.40
90-130	1414.88	N.A.	35.90
90-150	2806.86	N.A.	71.20
90-180	3940.67	N.A.	100.00
110-180	3597.24	N.A.	91.30
0-180	3940.67	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	79.24
100-110	264.19
110-120	458.52
120-130	612.93
130-140	697.52
140-150	694.46
150-160	593.51
160-170	399.74
170-180	140.57

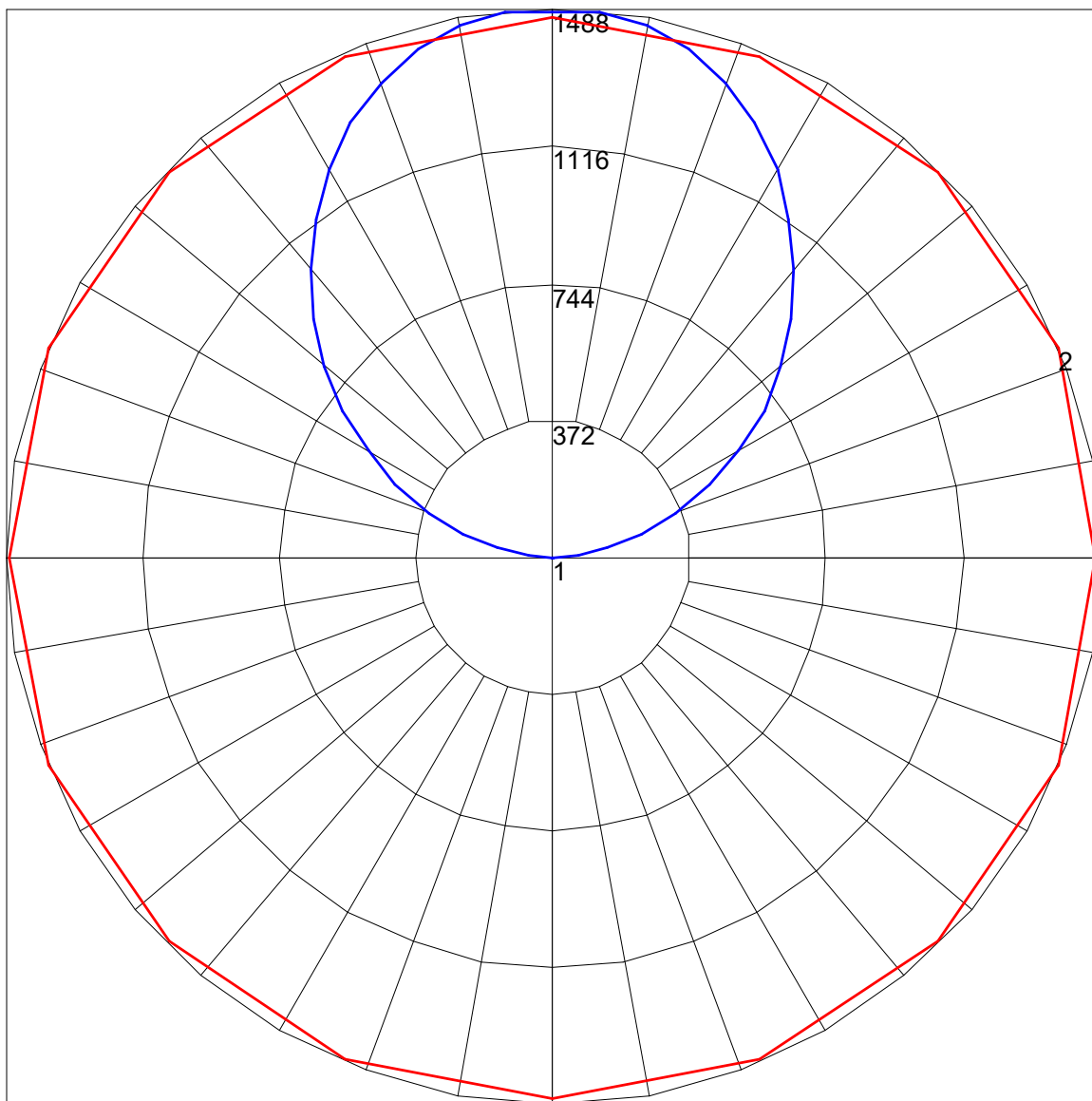
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-4-00-L12-935-F-DIM-UNV_.IES

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	79	79	79	79	68	68	68	68	46	46	46	26	26	26	8	8	8	0
1	72	69	66	63	61	59	56	54	40	39	37	23	22	22	7	7	7	0
2	65	60	55	51	56	51	47	44	35	33	31	20	19	18	6	6	6	0
3	60	52	47	42	51	45	40	37	31	28	26	18	16	15	6	5	5	0
4	54	46	40	36	46	40	35	31	27	24	22	16	14	13	5	5	4	0
5	50	41	35	30	42	35	30	26	24	21	19	14	12	11	5	4	4	0
6	46	36	30	26	39	31	26	23	22	18	16	13	11	9	4	4	3	0
7	42	33	27	22	36	28	23	19	19	16	14	11	10	8	4	3	3	0
8	39	29	23	19	33	25	20	17	17	14	12	10	8	7	3	3	2	0
9	36	26	21	17	30	23	18	15	16	13	11	9	7	6	3	2	2	0
10	33	24	19	15	28	21	16	13	14	11	9	8	7	6	3	2	2	0

POLAR GRAPH



Maximum Candela = 1487.724 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.)