



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-L8-840-A-(L6)-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] 13-NOV-2020
 [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-L8-840-A-(L6)-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K 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	5033
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	38.1
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)	0.32 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-8-00-L8-840-A-(L6)-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	90.391	88.584	92.199	90.391	95.815
100	191.630	193.438	182.591	191.630	189.822
105	323.602	321.794	321.794	316.370	310.947
110	462.804	455.573	450.150	446.534	437.495
115	612.854	603.815	592.968	574.890	574.890
120	761.096	744.826	728.555	719.516	710.477
125	896.684	893.068	874.990	856.911	847.872
130	1037.694	1035.887	1017.808	1001.538	996.114
135	1171.474	1175.089	1155.203	1133.509	1126.278
140	1314.292	1307.061	1294.406	1263.673	1263.673
145	1442.648	1433.609	1413.723	1406.492	1390.221
150	1549.310	1560.157	1540.271	1524.001	1516.769
155	1654.164	1663.204	1648.741	1628.855	1627.047
160	1746.364	1753.595	1739.132	1730.093	1721.054
165	1815.061	1824.100	1811.446	1802.406	1796.983
170	1863.873	1872.912	1862.065	1856.641	1856.641
175	1889.182	1900.029	1890.990	1885.567	1878.335
180	1896.414	1896.414	1896.414	1896.414	1896.414

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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	438.61	N.A.	8.70
90-120	1024.21	N.A.	20.40
90-130	1807.00	N.A.	35.90
90-150	3584.74	N.A.	71.20
90-180	5032.79	N.A.	100.00
110-180	4594.18	N.A.	91.30
0-180	5032.79	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	101.20
100-110	337.41
110-120	585.60
120-130	782.79
130-140	890.82
140-150	886.92
150-160	758.00
160-170	510.52
170-180	179.53

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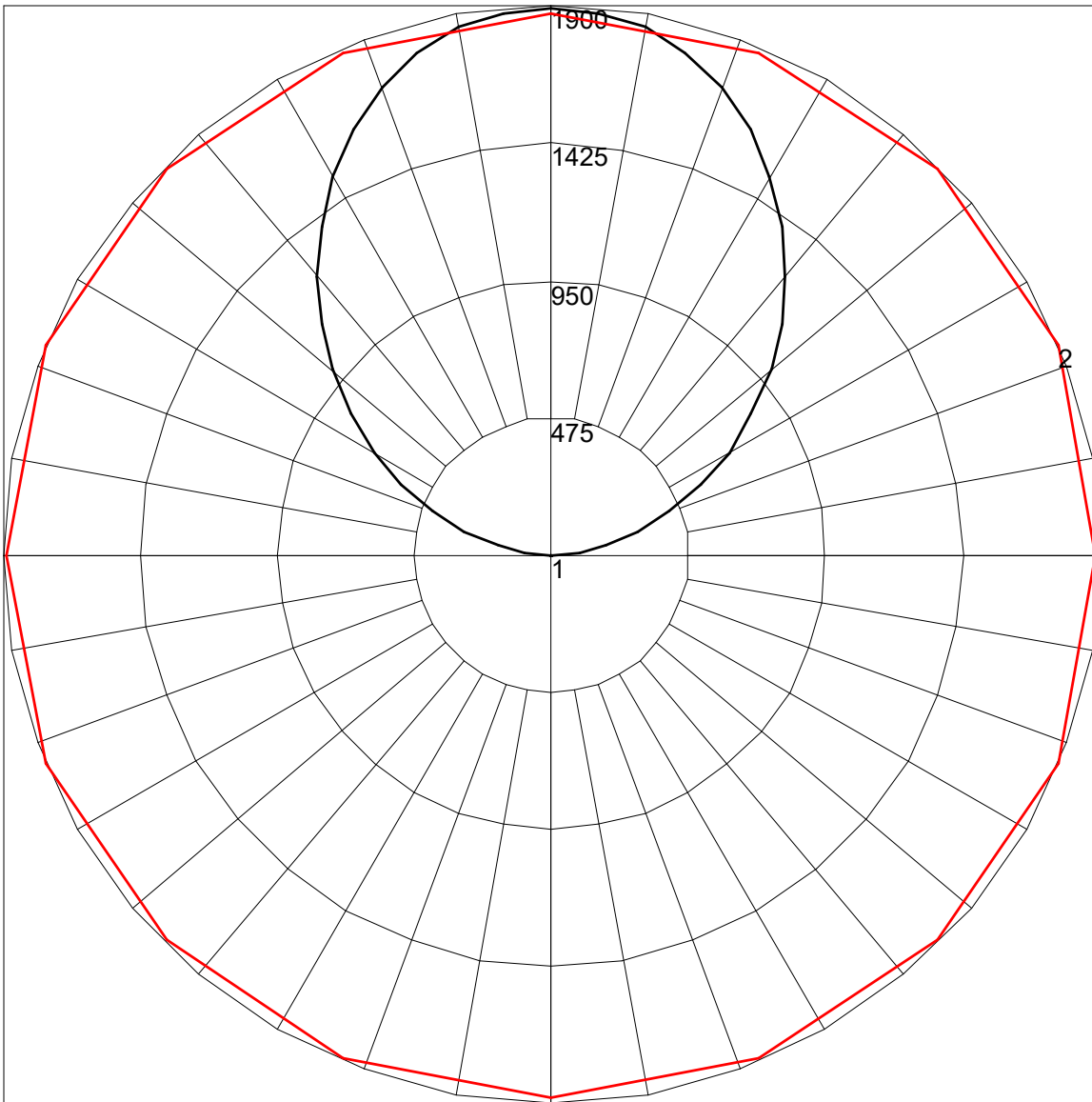
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	98	98	98	98	67	67	67	38	38	38	12	12	12	0
1	104	99	95	91	89	85	81	78	58	56	54	33	32	32	11	10	10	0
2	95	87	80	74	81	74	69	64	51	48	45	29	28	26	9	9	9	0
3	86	76	68	61	73	65	59	53	45	41	37	26	24	22	8	8	7	0
4	79	67	58	52	67	57	50	45	39	35	32	23	21	19	7	7	6	0
5	72	59	50	44	61	51	44	38	35	30	27	20	18	16	7	6	5	0
6	66	53	44	37	56	45	38	33	31	27	23	18	16	14	6	5	5	0
7	61	47	38	32	52	41	33	28	28	23	20	16	14	12	5	5	4	0
8	56	42	34	28	48	37	29	24	25	21	17	15	12	10	5	4	3	0
9	52	38	30	25	44	33	26	21	23	18	15	13	11	9	4	4	3	0
10	48	35	27	22	41	30	23	19	21	16	13	12	10	8	4	3	3	0

POLAR GRAPH



Maximum Candela = 1900.029 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)