



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-6-00-L8-835-A-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] 30-JUN2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 6' INDIRECT SUSPENDED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] MX4U-6-00-L8-835-A-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	5168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	38.3
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)	6.00 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	92.816	90.960	94.672	92.816	98.385
100	196.770	198.626	187.489	196.770	194.914
105	332.282	330.425	330.425	324.856	319.287
110	475.218	467.793	462.224	458.512	449.230
115	629.293	620.012	608.874	590.310	590.310
120	781.512	764.805	748.098	738.816	729.535
125	920.736	917.023	898.460	879.897	870.615
130	1065.529	1063.673	1045.109	1028.402	1022.833
135	1202.897	1206.609	1186.190	1163.914	1156.489
140	1349.546	1342.121	1329.127	1297.569	1297.569
145	1481.345	1472.063	1451.644	1444.219	1427.512
150	1590.868	1602.006	1581.586	1564.879	1557.454
155	1698.535	1707.816	1692.966	1672.546	1670.690
160	1793.207	1800.632	1785.782	1776.500	1767.219
165	1863.747	1873.029	1860.035	1850.753	1845.184
170	1913.868	1923.150	1912.012	1906.443	1906.443
175	1939.857	1950.994	1941.713	1936.144	1928.719
180	1947.282	1947.282	1947.282	1947.282	1947.282

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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	450.37	N.A.	8.70
90-120	1051.68	N.A.	20.40
90-130	1855.47	N.A.	35.90
90-150	3680.9	N.A.	71.20
90-180	5167.78	N.A.	100.00
110-180	4717.41	N.A.	91.30
0-180	5167.78	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	103.91
100-110	346.46
110-120	601.31
120-130	803.79
130-140	914.72
140-150	910.71
150-160	778.33
160-170	524.21
170-180	184.34

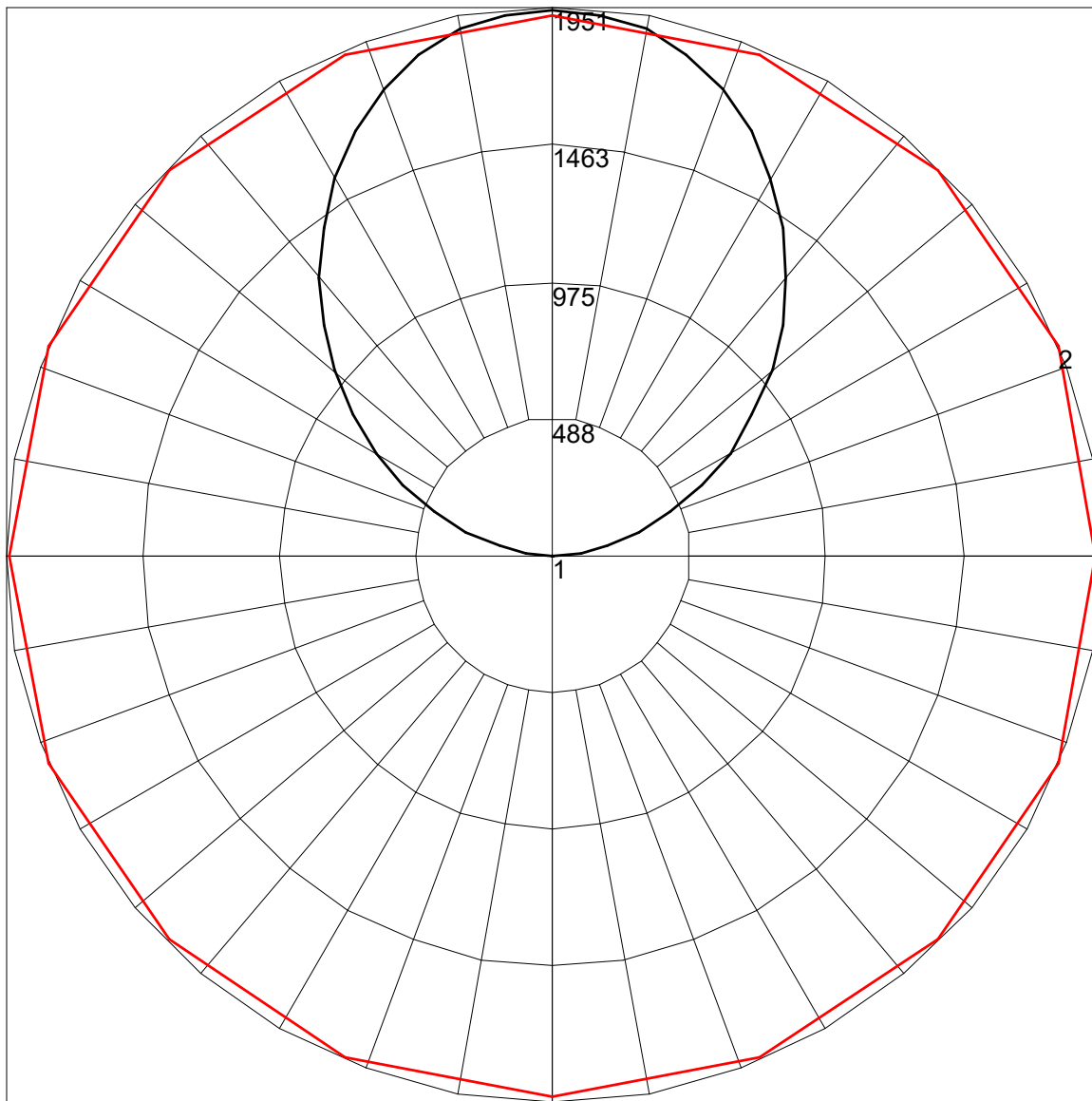
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	140	140	140	140	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	24	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 = 1950.994 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.)