



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-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] 8' INDIRECT SUSPENDED LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] MX4U-8-00-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	6808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	49.8
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

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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>
<b>0</b>	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000
<b>95</b>	122.270	119.825	124.715	122.270	129.606
<b>100</b>	259.213	261.658	246.986	259.213	256.767
<b>105</b>	437.727	435.282	435.282	427.945	420.609
<b>110</b>	626.023	616.241	608.905	604.014	591.787
<b>115</b>	828.991	816.764	802.092	777.638	777.638
<b>120</b>	1029.514	1007.506	985.497	973.270	961.043
<b>125</b>	1212.919	1208.029	1183.575	1159.121	1146.893
<b>130</b>	1403.661	1401.215	1376.761	1354.753	1347.416
<b>135</b>	1584.620	1589.511	1562.612	1533.267	1523.485
<b>140</b>	1777.807	1768.026	1750.908	1709.336	1709.336
<b>145</b>	1951.431	1939.204	1912.304	1902.523	1880.514
<b>150</b>	2095.709	2110.382	2083.482	2061.474	2051.692
<b>155</b>	2237.543	2249.770	2230.207	2203.307	2200.862
<b>160</b>	2362.258	2372.040	2352.477	2340.250	2328.023
<b>165</b>	2455.184	2467.411	2450.293	2438.066	2430.729
<b>170</b>	2521.209	2533.436	2518.764	2511.428	2511.428
<b>175</b>	2555.445	2570.117	2557.890	2550.554	2540.773
<b>180</b>	2565.227	2565.227	2565.227	2565.227	2565.227

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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	593.30	N.A.	8.70
90-120	1385.42	N.A.	20.40
90-130	2444.28	N.A.	35.90
90-150	4848.99	N.A.	71.20
90-180	6807.71	N.A.	100.00
110-180	6214.42	N.A.	91.30
0-180	6807.71	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	136.89
100-110	456.41
110-120	792.12
120-130	1058.86
130-140	1204.99
140-150	1199.71
150-160	1025.32
160-170	690.56
170-180	242.84

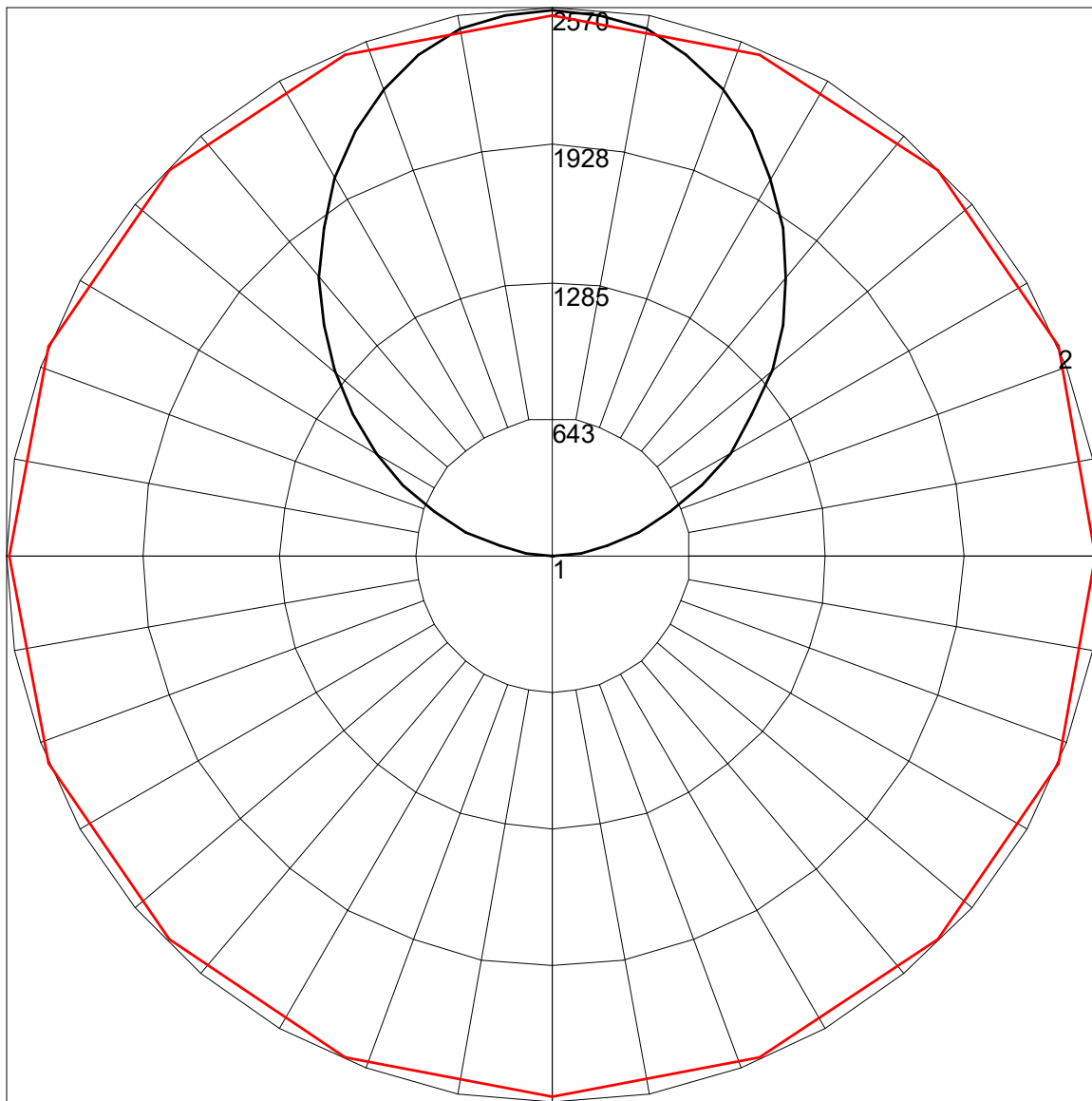
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	125	125	125	125	107	107	107	107	73	73	73	42	42	42	13	13	13	0
1	114	109	104	100	97	93	89	86	64	61	59	37	36	35	12	11	11	0
2	104	95	88	81	88	81	75	70	56	52	49	32	30	29	10	10	9	0
3	94	83	74	67	80	71	64	58	49	45	41	28	26	24	9	8	8	0
4	86	73	64	57	73	63	55	49	43	38	35	25	23	20	8	7	7	0
5	79	65	55	48	67	56	48	42	38	33	29	22	20	17	7	6	6	0
6	72	58	48	41	61	50	42	36	34	29	25	20	17	15	6	6	5	0
7	66	52	42	35	56	44	37	31	31	26	22	18	15	13	6	5	4	0
8	61	47	37	31	52	40	32	27	28	23	19	16	13	11	5	4	4	0
9	57	42	33	27	48	36	29	24	25	20	17	15	12	10	5	4	3	0
10	53	38	30	24	45	33	26	21	23	18	15	13	11	9	4	4	3	0

POLAR GRAPH



Maximum Candela = 2570.117 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.)