



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-L8-835-A-(L7)-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] 23-JUL-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-L8-835-A-(L7)-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	5623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	43.5
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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	<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>	100.988	98.968	103.008	100.988	107.047
<b>100</b>	214.094	216.114	203.995	214.094	212.074
<b>105</b>	361.536	359.517	359.517	353.457	347.398
<b>110</b>	517.058	508.979	502.919	498.880	488.781
<b>115</b>	684.697	674.599	662.480	642.282	642.282
<b>120</b>	850.317	832.140	813.962	803.863	793.764
<b>125</b>	1001.799	997.760	977.562	957.364	947.266
<b>130</b>	1159.340	1157.320	1137.123	1118.945	1112.886
<b>135</b>	1308.802	1312.841	1290.624	1266.387	1258.308
<b>140</b>	1468.363	1460.284	1446.145	1411.809	1411.809
<b>145</b>	1611.765	1601.667	1579.449	1571.370	1553.192
<b>150</b>	1730.931	1743.049	1720.832	1702.654	1694.575
<b>155</b>	1848.077	1858.176	1842.018	1819.800	1817.780
<b>160</b>	1951.084	1959.163	1943.005	1932.907	1922.808
<b>165</b>	2027.835	2037.934	2023.796	2013.697	2007.638
<b>170</b>	2082.369	2092.467	2080.349	2074.289	2074.289
<b>175</b>	2110.645	2122.764	2112.665	2106.606	2098.527
<b>180</b>	2118.724	2118.724	2118.724	2118.724	2118.724

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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	490.03	N.A.	8.70
90-120	1144.27	N.A.	20.40
90-130	2018.83	N.A.	35.90
90-150	4004.97	N.A.	71.20
90-180	5622.76	N.A.	100.00
110-180	5132.74	N.A.	91.30
0-180	5622.76	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	113.06
100-110	376.96
110-120	654.25
120-130	874.56
130-140	995.25
140-150	990.89
150-160	846.86
160-170	570.36
170-180	200.57

# IES INDOOR REPORT

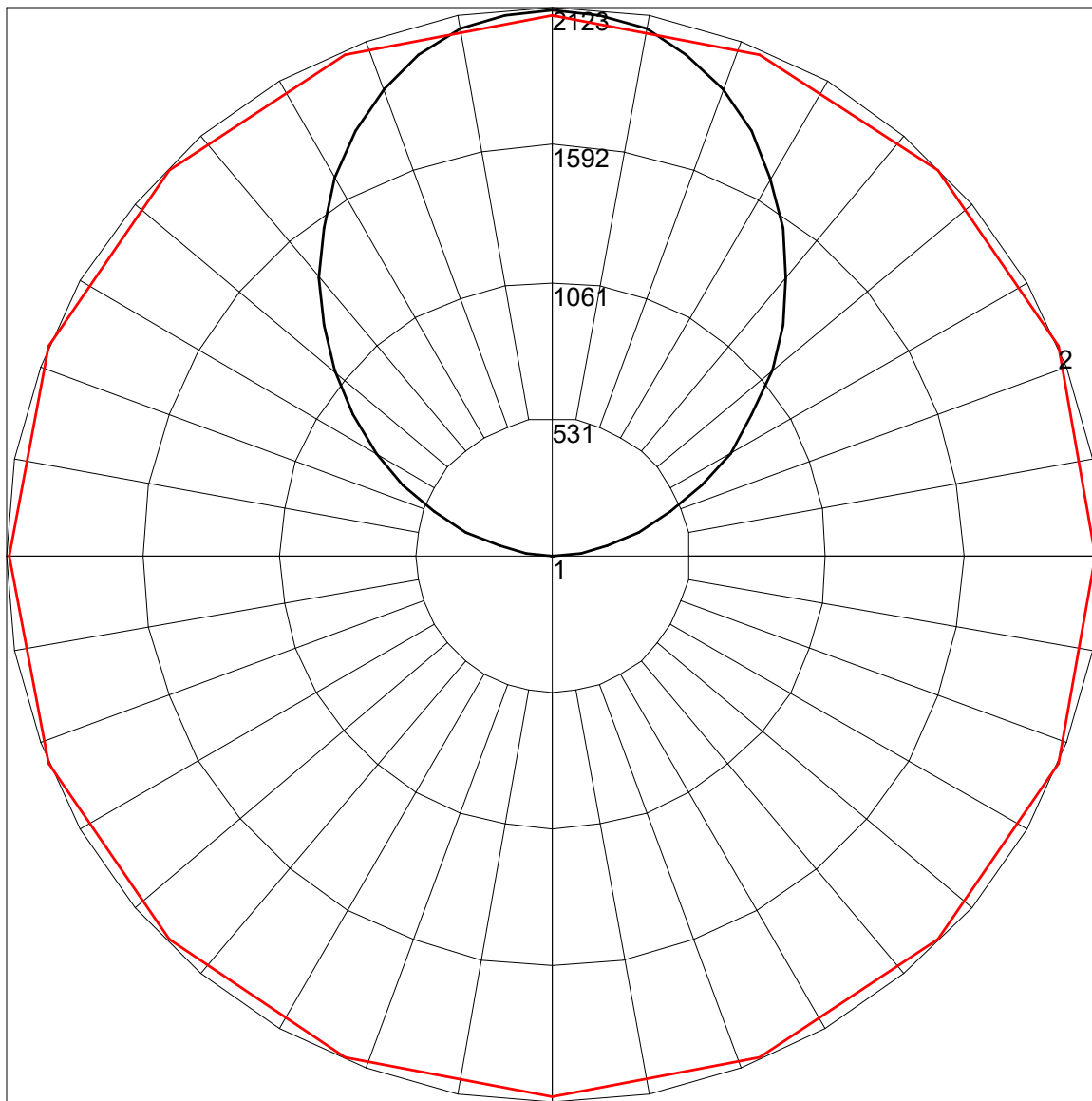
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	79	79	79	67	67	67	67	46	46	46	26	26	26	8	8	8	0
1	72	68	65	63	61	58	56	54	40	39	37	23	22	22	7	7	7	0
2	65	59	55	51	55	51	47	44	35	33	31	20	19	18	6	6	6	0
3	59	52	47	42	50	45	40	37	31	28	26	18	16	15	6	5	5	0
4	54	46	40	35	46	39	35	31	27	24	22	16	14	13	5	5	4	0
5	49	41	35	30	42	35	30	26	24	21	18	14	12	11	4	4	4	0
6	45	36	30	26	38	31	26	22	21	18	16	12	11	9	4	4	3	0
7	42	32	26	22	35	28	23	19	19	16	14	11	9	8	4	3	3	0
8	38	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	10	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 = 2122.764 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.)