



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-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  
 [ISSUE DATE] 03-24-2020  
 [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-L8-835-F-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	3256
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	26.6
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

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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>	58.477	57.307	59.647	58.477	61.986
<b>100</b>	123.971	125.141	118.124	123.971	122.802
<b>105</b>	209.348	208.178	208.178	204.670	201.161
<b>110</b>	299.402	294.724	291.215	288.876	283.029
<b>115</b>	396.474	390.626	383.609	371.914	371.914
<b>120</b>	492.376	481.850	471.325	465.477	459.629
<b>125</b>	580.092	577.753	566.057	554.362	548.514
<b>130</b>	671.316	670.146	658.451	647.925	644.417
<b>135</b>	757.862	760.201	747.336	733.302	728.623
<b>140</b>	850.256	845.577	837.391	817.508	817.508
<b>145</b>	933.293	927.445	914.580	909.902	899.376
<b>150</b>	1002.296	1009.313	996.448	985.922	981.244
<b>155</b>	1070.129	1075.977	1066.621	1053.756	1052.586
<b>160</b>	1129.776	1134.454	1125.098	1119.250	1113.402
<b>165</b>	1174.218	1180.066	1171.879	1166.031	1162.523
<b>170</b>	1205.796	1211.643	1204.626	1201.118	1201.118
<b>175</b>	1222.169	1229.187	1223.339	1219.830	1215.152
<b>180</b>	1226.848	1226.848	1226.848	1226.848	1226.848

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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	283.75	N.A.	8.70
90-120	662.59	N.A.	20.40
90-130	1169.00	N.A.	35.90
90-150	2319.08	N.A.	71.20
90-180	3255.86	N.A.	100.00
110-180	2972.11	N.A.	91.30
0-180	3255.86	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	65.47
100-110	218.28
110-120	378.84
120-130	506.41
130-140	576.30
140-150	573.78
150-160	490.37
160-170	330.27
170-180	116.14

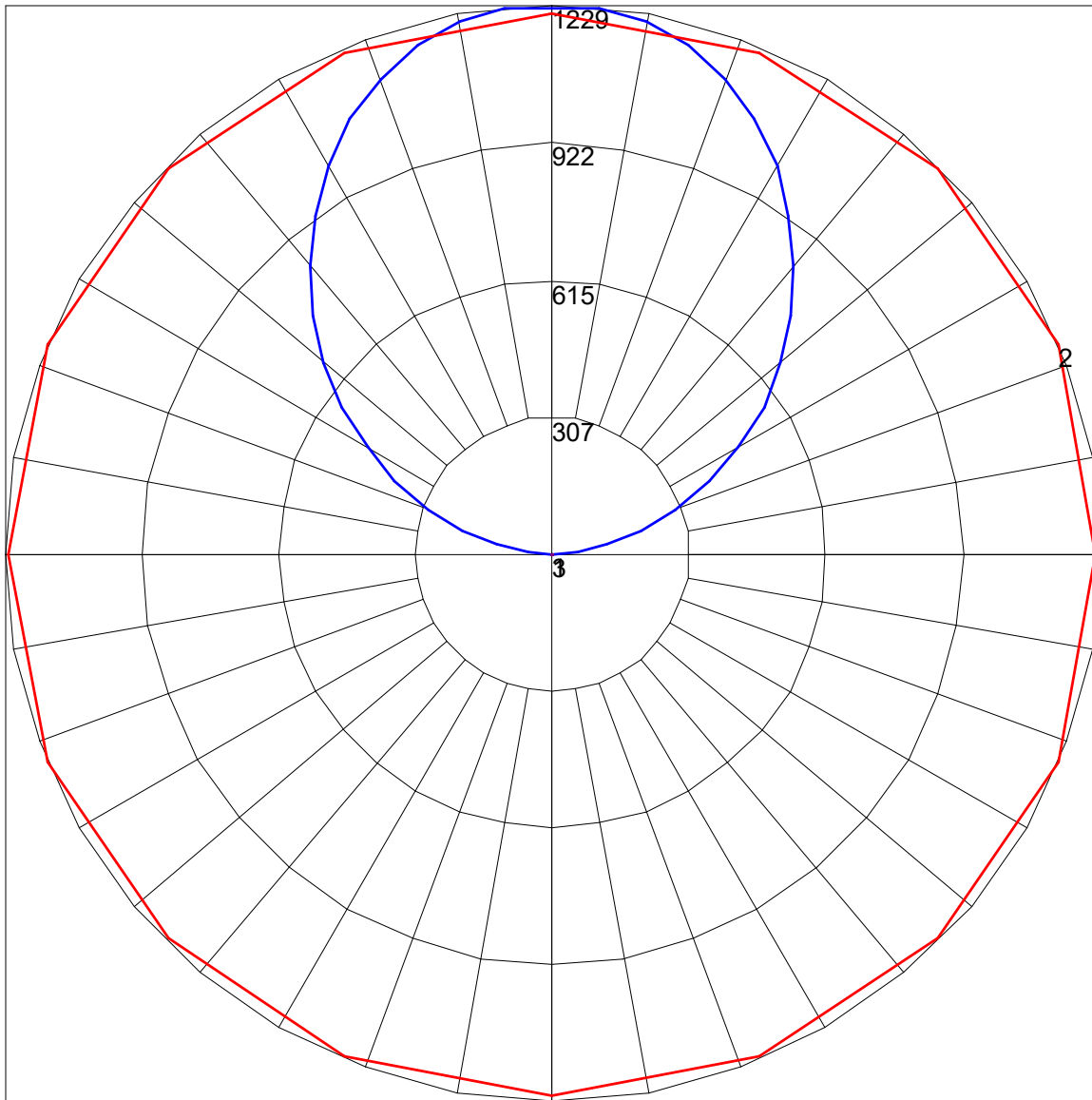
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	91	91	91	91	78	78	78	78	53	53	53	31	31	31	10	10	10	0
1	83	79	76	73	71	68	65	62	46	45	43	27	26	25	9	8	8	0
2	75	69	64	59	64	59	55	51	40	38	36	23	22	21	7	7	7	0
3	69	60	54	49	58	52	47	42	36	32	30	21	19	18	7	6	6	0
4	63	53	46	41	53	46	40	36	31	28	25	18	16	15	6	5	5	0
5	57	47	40	35	49	40	35	30	28	24	21	16	14	13	5	5	4	0
6	52	42	35	30	45	36	30	26	25	21	18	14	12	11	5	4	4	0
7	48	38	31	26	41	32	27	22	22	19	16	13	11	9	4	4	3	0
8	45	34	27	22	38	29	23	19	20	16	14	12	10	8	4	3	3	0
9	41	31	24	20	35	26	21	17	18	15	12	11	9	7	3	3	2	0
10	38	28	21	17	33	24	19	15	17	13	11	10	8	6	3	3	2	0

POLAR GRAPH



Maximum Candela = 1229.187 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.)  
# 3 - Horizontal Cone Through Vertical Angle (0)