



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4U-8-00-L10-RGB835-F-DMX-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] 19 Apr, 2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
[LUMINAIRE] 8' INDIRECT SUSPENDED LUMINAIRE - WHITE ONLY  
[MORE] WITH FROSTED ACRYLIC LENS  
[LUMCAT] MX4U-8-00-L10-RGB835-F-DMX-UNV  
[LAMPCAT] 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	8608
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	86.04
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>	154.600	151.508	157.692	154.600	163.876
<b>100</b>	327.752	330.844	312.292	327.752	324.660
<b>105</b>	553.468	550.376	550.376	541.100	531.824
<b>110</b>	791.552	779.184	769.908	763.724	748.264
<b>115</b>	1048.188	1032.728	1014.176	983.256	983.256
<b>120</b>	1301.732	1273.904	1246.076	1230.616	1215.156
<b>125</b>	1533.632	1527.448	1496.528	1465.608	1450.148
<b>130</b>	1774.808	1771.716	1740.796	1712.968	1703.692
<b>135</b>	2003.616	2009.800	1975.788	1938.684	1926.316
<b>140</b>	2247.884	2235.516	2213.872	2161.308	2161.308
<b>145</b>	2467.416	2451.956	2417.944	2405.576	2377.748
<b>150</b>	2649.844	2668.396	2634.384	2606.556	2594.188
<b>155</b>	2829.180	2844.640	2819.904	2785.892	2782.800
<b>160</b>	2986.872	2999.240	2974.504	2959.044	2943.584
<b>165</b>	3104.368	3119.828	3098.184	3082.724	3073.448
<b>170</b>	3187.852	3203.312	3184.760	3175.484	3175.484
<b>175</b>	3231.140	3249.692	3234.232	3224.956	3212.588
<b>180</b>	3243.508	3243.508	3243.508	3243.508	3243.508

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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	750.17	N.A.	8.70
90-120	1751.74	N.A.	20.40
90-130	3090.58	N.A.	35.90
90-150	6131.12	N.A.	71.20
90-180	8607.76	N.A.	100.00
110-180	7857.59	N.A.	91.30
0-180	8607.76	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	173.08
100-110	577.09
110-120	1001.57
120-130	1338.84
130-140	1523.61
140-150	1516.93
150-160	1296.43
160-170	873.16
170-180	307.05

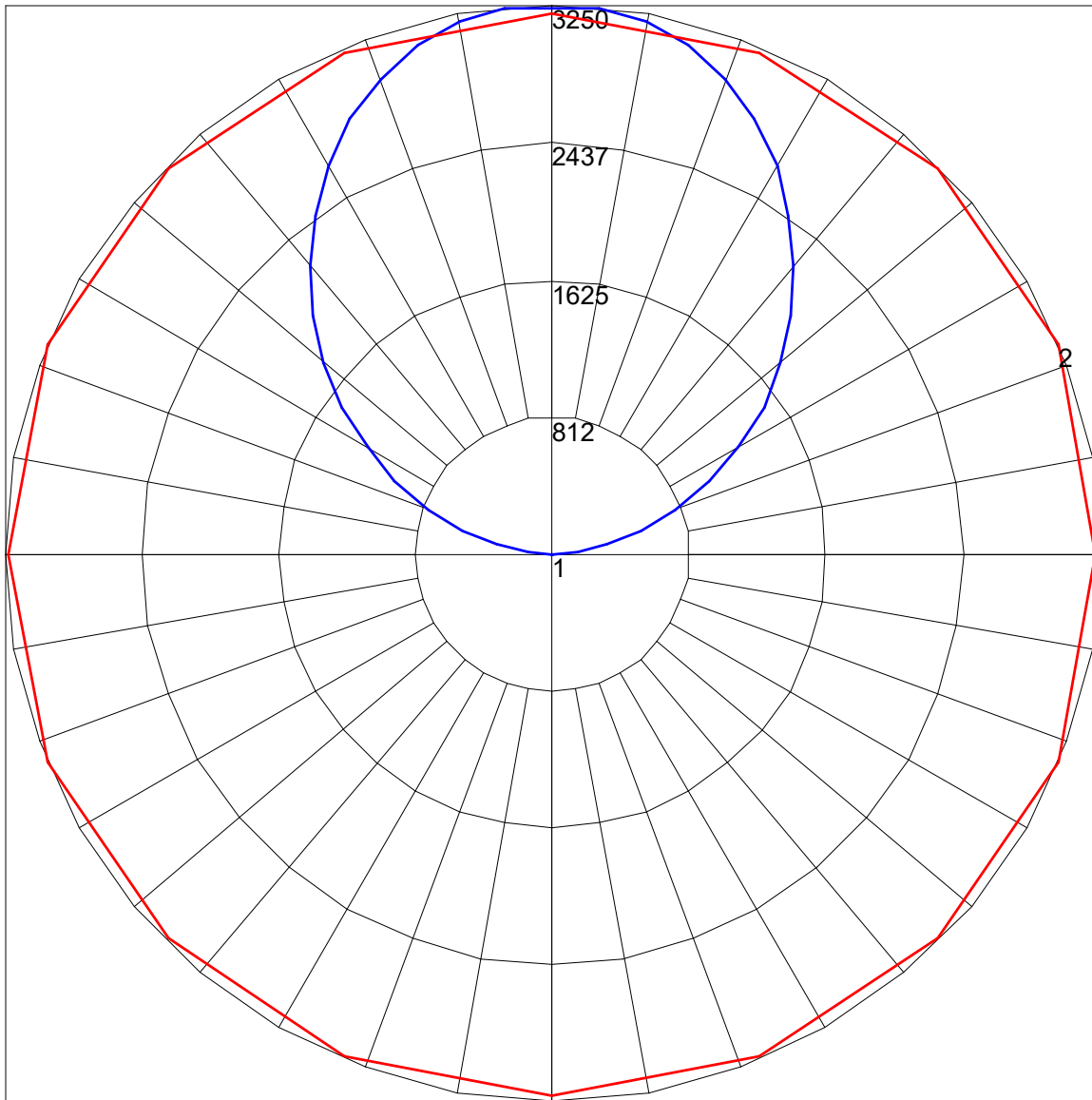
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 3249.692 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.)