



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4U-4-00-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] 4' INDIRECT SUSPENDED LUMINAIRE  
[MORE] WITH FROSTED ACRYLIC LENS  
[LUMCAT] MX4U-4-00-L10-RGB835-F-DIM-UNV - WHITE ONLY  
[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	4304
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	43.2
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>	77.300	75.754	78.846	77.300	81.938
<b>100</b>	163.876	165.422	156.146	163.876	162.330
<b>105</b>	276.734	275.188	275.188	270.550	265.912
<b>110</b>	395.776	389.592	384.954	381.862	374.132
<b>115</b>	524.094	516.364	507.088	491.628	491.628
<b>120</b>	650.866	636.952	623.038	615.308	607.578
<b>125</b>	766.816	763.724	748.264	732.804	725.074
<b>130</b>	887.404	885.858	870.398	856.484	851.846
<b>135</b>	1001.808	1004.900	987.894	969.342	963.158
<b>140</b>	1123.942	1117.758	1106.936	1080.654	1080.654
<b>145</b>	1233.708	1225.978	1208.972	1202.788	1188.874
<b>150</b>	1324.922	1334.198	1317.192	1303.278	1297.094
<b>155</b>	1414.590	1422.320	1409.952	1392.946	1391.400
<b>160</b>	1493.436	1499.620	1487.252	1479.522	1471.792
<b>165</b>	1552.184	1559.914	1549.092	1541.362	1536.724
<b>170</b>	1593.926	1601.656	1592.380	1587.742	1587.742
<b>175</b>	1615.570	1624.846	1617.116	1612.478	1606.294
<b>180</b>	1621.754	1621.754	1621.754	1621.754	1621.754

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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	375.09	N.A.	8.70
90-120	875.87	N.A.	20.40
90-130	1545.29	N.A.	35.90
90-150	3065.56	N.A.	71.20
90-180	4303.88	N.A.	100.00
110-180	3928.8	N.A.	91.30
0-180	4303.88	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	86.54
100-110	288.54
110-120	500.78
120-130	669.42
130-140	761.81
140-150	758.47
150-160	648.22
160-170	436.58
170-180	153.52

# IES INDOOR REPORT

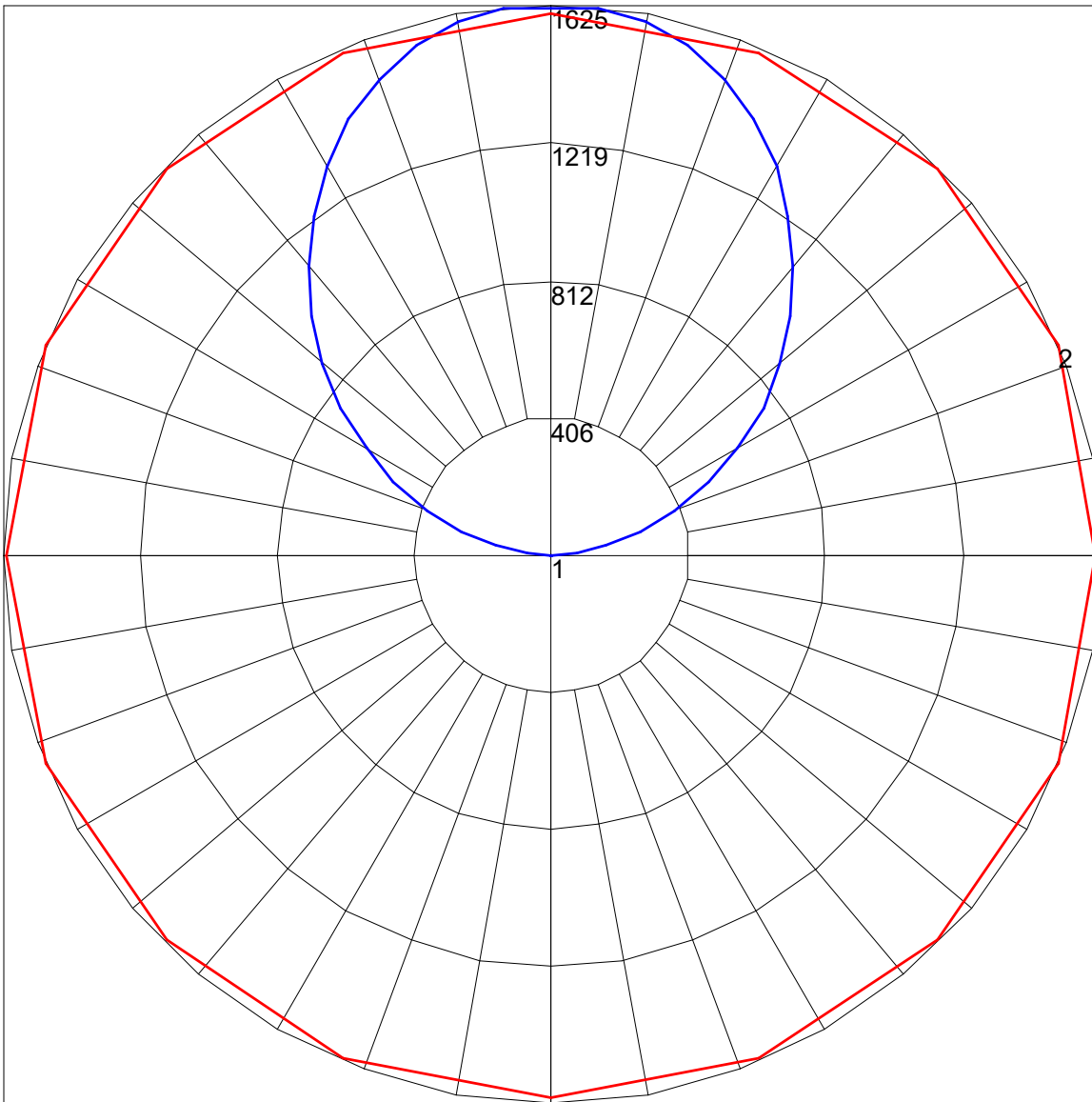
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1624.846 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.)