



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13052732.23  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 12-05-2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
[LUMINAIRE] 4' INDIRECT SUSPENDED LUMINAIRE  
[OTHER] WITH FROSTED ACRYLIC LENS  
[LUMCAT] MX2U-4-00-L12-840-FW-(L10)-DIM-UNV  
[LAMPCAT] HLM 80 CRI, 4000K CCT  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor, Architectural, Commercial, Indirect, Linear  
[SEARCH\_MOUNTING] Suspended  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 3848            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 128             |
| Total Luminaire Watts           | 30.1            |
| 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)         | 0.17 ft         |
| Luminous Height                 | 0.00 ft         |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 0.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 1.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 1.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 2.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 2.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 3.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 3.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 4.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 4.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 5.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 5.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 6.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 6.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 7.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 7.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 8.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 8.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 9.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 9.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 10.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 10.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 11.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 11.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 12.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 12.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 13.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 13.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 14.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 14.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 15.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 15.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 16.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 16.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 17.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 17.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 18.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 18.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 19.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 19.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 20.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 20.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 21.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 21.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 22.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 22.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 23.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 23.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 24.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 24.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 25.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 25.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 26.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 26.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|      |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|
| 27.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 28.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 28.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 29.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 29.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 31.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 31.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 33.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 33.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 34.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 34.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 41.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 41.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 42.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 42.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 43.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 43.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 44.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 44.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 46.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 46.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 47.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 47.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 48.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 48.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 49.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 49.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 51.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 51.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 52.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 52.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 53.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 53.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 54.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 54.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|      |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|
| 55.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 56.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 56.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 57.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 57.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 58.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 58.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 59.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 59.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 61.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 61.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 62.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 62.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 63.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 63.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 64.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 64.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 66.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 66.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 67.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 67.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 68.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 68.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 69.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 69.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 71.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 71.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 72.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 72.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 73.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 73.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 74.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 74.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 76.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 76.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 77.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 77.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 78.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 78.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 79.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 79.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 81.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 81.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 83.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 84.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 84.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 85.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 85.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 86.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 86.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 87.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 87.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 88.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 88.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 89.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 89.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.0  | 4.552   | 8.725   | 7.334   | 8.472   | 8.725   |
| 90.5  | 7.714   | 11.634  | 8.599   | 9.358   | 9.737   |
| 91.0  | 12.393  | 15.301  | 10.496  | 10.243  | 10.496  |
| 91.5  | 18.715  | 19.600  | 13.278  | 11.381  | 11.254  |
| 92.0  | 25.544  | 24.153  | 17.704  | 13.531  | 12.898  |
| 92.5  | 33.257  | 28.705  | 24.026  | 16.313  | 15.554  |
| 93.0  | 41.098  | 34.016  | 31.234  | 20.106  | 18.842  |
| 93.5  | 48.685  | 40.845  | 38.821  | 25.797  | 23.268  |
| 94.0  | 56.146  | 48.938  | 45.650  | 33.384  | 28.832  |
| 94.5  | 63.606  | 57.157  | 51.720  | 42.109  | 36.166  |
| 95.0  | 71.194  | 66.262  | 57.663  | 51.340  | 44.638  |
| 95.5  | 78.528  | 75.240  | 64.112  | 60.066  | 53.996  |
| 96.0  | 85.736  | 83.586  | 71.573  | 67.906  | 63.227  |
| 96.5  | 92.817  | 92.059  | 80.551  | 75.367  | 71.573  |
| 97.0  | 100.025 | 101.163 | 90.794  | 83.207  | 79.540  |
| 97.5  | 107.486 | 110.521 | 102.175 | 91.553  | 88.012  |
| 98.0  | 114.441 | 120.131 | 113.809 | 99.899  | 96.358  |
| 98.5  | 121.522 | 129.995 | 124.937 | 109.130 | 104.578 |
| 99.0  | 128.477 | 139.605 | 135.812 | 120.005 | 113.303 |
| 99.5  | 135.812 | 148.837 | 146.687 | 132.398 | 123.166 |
| 100.0 | 142.893 | 158.194 | 158.194 | 145.802 | 134.927 |
| 100.5 | 149.216 | 167.299 | 169.954 | 159.079 | 147.699 |
| 101.0 | 156.044 | 176.404 | 182.347 | 171.472 | 161.229 |
| 101.5 | 162.999 | 185.382 | 194.992 | 183.232 | 174.380 |
| 102.0 | 169.575 | 194.234 | 208.144 | 194.739 | 186.520 |
| 102.5 | 176.530 | 203.338 | 221.801 | 206.247 | 198.660 |
| 103.0 | 184.117 | 212.190 | 236.216 | 217.881 | 210.420 |
| 103.5 | 190.566 | 220.789 | 251.264 | 229.641 | 221.927 |
| 104.0 | 196.130 | 230.147 | 266.313 | 241.275 | 233.434 |
| 104.5 | 202.580 | 239.884 | 281.613 | 253.541 | 245.195 |
| 105.0 | 209.029 | 249.494 | 296.788 | 266.313 | 256.955 |
| 105.5 | 215.478 | 258.219 | 312.721 | 279.337 | 269.095 |
| 106.0 | 221.674 | 266.945 | 328.528 | 292.868 | 281.613 |
| 106.5 | 227.365 | 275.670 | 345.094 | 306.651 | 294.385 |
| 107.0 | 233.182 | 284.522 | 361.912 | 321.699 | 307.031 |
| 107.5 | 239.251 | 293.753 | 378.857 | 337.633 | 320.941 |
| 108.0 | 244.562 | 302.731 | 395.928 | 354.072 | 335.357 |
| 108.5 | 250.759 | 311.457 | 413.252 | 371.143 | 350.405 |
| 109.0 | 257.840 | 320.182 | 430.577 | 388.720 | 366.085 |
| 109.5 | 265.301 | 328.907 | 447.648 | 406.677 | 382.524 |
| 110.0 | 271.750 | 337.506 | 464.340 | 425.013 | 399.469 |
| 110.5 | 276.808 | 346.485 | 481.032 | 443.728 | 417.046 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |         |         |          |          |          |
|-------|---------|---------|----------|----------|----------|
| 111.0 | 281.740 | 355.463 | 497.977  | 462.443  | 435.382  |
| 111.5 | 286.545 | 364.188 | 514.163  | 481.790  | 454.097  |
| 112.0 | 291.224 | 372.913 | 530.475  | 501.517  | 473.318  |
| 112.5 | 296.409 | 381.765 | 546.282  | 521.371  | 493.045  |
| 113.0 | 301.846 | 390.617 | 562.468  | 541.730  | 512.898  |
| 113.5 | 307.284 | 399.342 | 578.149  | 562.595  | 533.510  |
| 114.0 | 312.721 | 407.941 | 593.450  | 583.207  | 554.249  |
| 114.5 | 318.159 | 416.793 | 608.371  | 603.566  | 575.367  |
| 115.0 | 323.343 | 425.518 | 623.166  | 624.178  | 596.611  |
| 115.5 | 328.528 | 434.244 | 637.961  | 645.043  | 618.487  |
| 116.0 | 333.839 | 442.843 | 652.377  | 665.276  | 640.364  |
| 116.5 | 338.644 | 451.441 | 666.919  | 685.382  | 662.367  |
| 117.0 | 343.703 | 460.040 | 681.082  | 704.982  | 684.244  |
| 117.5 | 348.761 | 468.513 | 694.992  | 724.456  | 705.741  |
| 118.0 | 353.566 | 477.238 | 708.649  | 743.551  | 727.112  |
| 118.5 | 358.371 | 485.711 | 722.180  | 762.013  | 748.103  |
| 119.0 | 363.176 | 494.057 | 735.584  | 779.717  | 768.462  |
| 119.5 | 367.982 | 502.276 | 748.482  | 796.788  | 788.189  |
| 120.0 | 372.661 | 510.622 | 761.507  | 813.100  | 807.284  |
| 120.5 | 377.339 | 518.968 | 774.279  | 828.907  | 825.872  |
| 121.0 | 381.892 | 527.188 | 787.051  | 844.082  | 844.082  |
| 121.5 | 386.444 | 535.407 | 799.570  | 858.624  | 861.153  |
| 122.0 | 390.870 | 543.374 | 811.836  | 872.534  | 877.971  |
| 122.5 | 395.296 | 551.593 | 823.723  | 885.938  | 894.031  |
| 123.0 | 399.722 | 559.686 | 835.356  | 899.216  | 909.964  |
| 123.5 | 404.021 | 568.032 | 846.737  | 912.367  | 925.265  |
| 124.0 | 408.321 | 576.125 | 857.739  | 924.760  | 939.934  |
| 124.5 | 412.747 | 584.345 | 868.235  | 936.899  | 954.097  |
| 125.0 | 416.793 | 592.691 | 878.351  | 948.659  | 968.007  |
| 125.5 | 421.092 | 600.910 | 888.594  | 960.167  | 981.411  |
| 126.0 | 425.139 | 609.130 | 898.457  | 971.674  | 994.183  |
| 126.5 | 429.312 | 617.223 | 908.321  | 982.549  | 1006.575 |
| 127.0 | 433.611 | 625.316 | 917.805  | 993.171  | 1018.841 |
| 127.5 | 437.784 | 633.156 | 927.415  | 1003.541 | 1030.349 |
| 128.0 | 442.084 | 640.743 | 936.899  | 1013.910 | 1041.477 |
| 128.5 | 446.510 | 648.331 | 946.383  | 1023.773 | 1052.099 |
| 129.0 | 450.936 | 656.044 | 955.614  | 1033.637 | 1062.721 |
| 129.5 | 455.488 | 663.632 | 964.846  | 1043.374 | 1072.711 |
| 130.0 | 460.293 | 670.713 | 974.203  | 1052.731 | 1082.701 |
| 130.5 | 465.351 | 677.542 | 983.181  | 1062.089 | 1092.438 |
| 131.0 | 470.663 | 684.117 | 991.907  | 1071.067 | 1101.669 |
| 131.5 | 475.721 | 690.693 | 1000.506 | 1079.919 | 1110.647 |
| 132.0 | 480.526 | 696.889 | 1008.978 | 1088.518 | 1119.499 |
| 132.5 | 485.205 | 703.085 | 1017.198 | 1096.737 | 1128.224 |
| 133.0 | 489.884 | 709.155 | 1025.291 | 1104.577 | 1136.444 |
| 133.5 | 494.057 | 715.225 | 1032.751 | 1112.291 | 1144.410 |
| 134.0 | 498.230 | 720.915 | 1040.592 | 1119.878 | 1151.998 |
| 134.5 | 502.403 | 726.606 | 1047.926 | 1126.833 | 1159.585 |
| 135.0 | 506.702 | 732.549 | 1054.881 | 1133.788 | 1166.666 |
| 135.5 | 510.496 | 738.493 | 1061.709 | 1140.490 | 1173.369 |
| 136.0 | 514.416 | 744.309 | 1068.159 | 1147.192 | 1180.071 |
| 136.5 | 518.462 | 750.126 | 1074.481 | 1153.768 | 1186.520 |
| 137.0 | 522.382 | 755.943 | 1080.172 | 1160.091 | 1192.590 |
| 137.5 | 526.682 | 761.760 | 1085.989 | 1166.287 | 1198.406 |
| 138.0 | 531.234 | 767.451 | 1091.553 | 1172.230 | 1204.350 |
| 138.5 | 535.786 | 772.762 | 1096.737 | 1178.300 | 1210.167 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |          |          |          |
|-------|---------|---------|----------|----------|----------|
| 139.0 | 540.592 | 778.452 | 1101.669 | 1184.117 | 1215.857 |
| 139.5 | 545.018 | 784.142 | 1106.474 | 1189.681 | 1220.915 |
| 140.0 | 549.823 | 789.833 | 1111.153 | 1195.119 | 1226.226 |
| 140.5 | 554.755 | 795.270 | 1115.832 | 1200.303 | 1231.158 |
| 141.0 | 559.560 | 800.582 | 1120.258 | 1205.614 | 1236.216 |
| 141.5 | 564.618 | 805.766 | 1124.557 | 1210.672 | 1241.148 |
| 142.0 | 569.297 | 810.698 | 1128.477 | 1215.604 | 1245.827 |
| 142.5 | 574.229 | 815.503 | 1132.397 | 1220.536 | 1250.506 |
| 143.0 | 579.160 | 820.308 | 1136.191 | 1225.341 | 1255.058 |
| 143.5 | 584.345 | 824.861 | 1139.985 | 1230.020 | 1259.737 |
| 144.0 | 589.529 | 829.413 | 1143.525 | 1234.572 | 1264.416 |
| 144.5 | 594.461 | 833.713 | 1146.687 | 1239.125 | 1268.336 |
| 145.0 | 599.393 | 837.886 | 1149.974 | 1243.803 | 1273.394 |
| 145.5 | 604.704 | 842.059 | 1153.136 | 1248.356 | 1277.187 |
| 146.0 | 610.268 | 846.231 | 1156.297 | 1252.782 | 1282.246 |
| 146.5 | 615.579 | 850.152 | 1159.206 | 1257.081 | 1286.039 |
| 147.0 | 620.637 | 853.566 | 1161.861 | 1261.507 | 1289.833 |
| 147.5 | 625.695 | 857.107 | 1164.264 | 1265.807 | 1294.891 |
| 148.0 | 631.133 | 860.774 | 1166.540 | 1269.600 | 1298.685 |
| 148.5 | 636.823 | 863.935 | 1168.437 | 1273.394 | 1302.478 |
| 149.0 | 642.387 | 867.349 | 1170.207 | 1277.187 | 1306.272 |
| 149.5 | 648.078 | 870.637 | 1171.219 | 1280.981 | 1311.330 |
| 150.0 | 653.895 | 873.672 | 1171.978 | 1283.510 | 1315.124 |
| 150.5 | 660.091 | 876.707 | 1172.610 | 1286.039 | 1317.653 |
| 151.0 | 666.034 | 879.489 | 1173.116 | 1288.568 | 1321.446 |
| 151.5 | 672.231 | 882.397 | 1173.621 | 1291.097 | 1323.975 |
| 152.0 | 678.427 | 885.306 | 1173.621 | 1292.362 | 1326.505 |
| 152.5 | 684.876 | 887.708 | 1173.621 | 1293.626 | 1329.034 |
| 153.0 | 691.578 | 890.364 | 1172.989 | 1293.626 | 1330.298 |
| 153.5 | 698.154 | 892.767 | 1171.978 | 1294.891 | 1331.563 |
| 154.0 | 704.350 | 895.296 | 1170.839 | 1293.626 | 1331.563 |
| 154.5 | 711.052 | 897.825 | 1169.196 | 1293.626 | 1331.563 |
| 155.0 | 717.880 | 900.480 | 1167.678 | 1292.362 | 1330.298 |
| 155.5 | 724.835 | 903.009 | 1165.781 | 1291.097 | 1329.034 |
| 156.0 | 732.043 | 905.286 | 1163.758 | 1289.833 | 1327.769 |
| 156.5 | 738.745 | 907.435 | 1161.482 | 1288.568 | 1325.240 |
| 157.0 | 746.080 | 910.091 | 1159.079 | 1286.039 | 1322.711 |
| 157.5 | 753.541 | 912.241 | 1156.424 | 1283.510 | 1320.182 |
| 158.0 | 761.001 | 914.390 | 1153.515 | 1279.716 | 1317.653 |
| 158.5 | 768.083 | 916.414 | 1150.101 | 1275.923 | 1313.859 |
| 159.0 | 774.785 | 918.310 | 1146.687 | 1272.129 | 1310.065 |
| 159.5 | 781.740 | 920.334 | 1142.767 | 1267.071 | 1305.007 |
| 160.0 | 788.568 | 922.104 | 1138.847 | 1262.645 | 1301.214 |
| 160.5 | 795.270 | 923.874 | 1134.547 | 1257.334 | 1296.156 |
| 161.0 | 802.099 | 925.518 | 1130.121 | 1251.391 | 1291.097 |
| 161.5 | 808.801 | 927.036 | 1125.569 | 1245.321 | 1286.039 |
| 162.0 | 815.503 | 928.806 | 1120.511 | 1238.745 | 1279.716 |
| 162.5 | 822.458 | 930.197 | 1115.452 | 1231.790 | 1273.394 |
| 163.0 | 829.160 | 931.841 | 1110.268 | 1224.330 | 1265.807 |
| 163.5 | 835.862 | 933.232 | 1104.704 | 1216.742 | 1257.713 |
| 164.0 | 842.438 | 934.623 | 1099.013 | 1208.776 | 1249.367 |
| 164.5 | 848.634 | 936.140 | 1093.197 | 1200.430 | 1240.516 |
| 165.0 | 854.451 | 937.531 | 1087.380 | 1191.704 | 1231.285 |
| 165.5 | 860.647 | 938.796 | 1081.436 | 1182.726 | 1221.421 |
| 166.0 | 866.717 | 940.061 | 1075.367 | 1173.369 | 1211.305 |
| 166.5 | 872.408 | 941.199 | 1069.297 | 1163.884 | 1200.809 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |          |          |          |
|-------|---------|---------|----------|----------|----------|
| 167.0 | 878.098 | 942.463 | 1063.227 | 1154.147 | 1189.934 |
| 167.5 | 883.662 | 943.728 | 1057.157 | 1144.158 | 1178.806 |
| 168.0 | 889.226 | 944.866 | 1051.087 | 1134.041 | 1167.299 |
| 168.5 | 894.790 | 945.877 | 1045.017 | 1123.672 | 1155.791 |
| 169.0 | 900.101 | 946.763 | 1039.074 | 1113.176 | 1143.905 |
| 169.5 | 905.286 | 947.774 | 1033.384 | 1102.807 | 1131.765 |
| 170.0 | 910.217 | 948.786 | 1027.567 | 1092.311 | 1119.752 |
| 170.5 | 915.023 | 949.797 | 1022.003 | 1081.816 | 1107.865 |
| 171.0 | 919.322 | 950.936 | 1016.565 | 1071.573 | 1095.979 |
| 171.5 | 923.369 | 951.694 | 1011.128 | 1061.457 | 1084.598 |
| 172.0 | 927.415 | 952.706 | 1006.070 | 1051.593 | 1072.964 |
| 172.5 | 931.335 | 953.465 | 1001.138 | 1042.109 | 1061.583 |
| 173.0 | 934.876 | 954.223 | 996.459  | 1032.751 | 1050.708 |
| 173.5 | 938.164 | 954.856 | 992.033  | 1023.900 | 1040.086 |
| 174.0 | 941.199 | 955.488 | 987.860  | 1015.807 | 1029.969 |
| 174.5 | 944.107 | 956.120 | 984.067  | 1007.714 | 1020.612 |
| 175.0 | 946.763 | 956.752 | 980.399  | 1000.506 | 1011.507 |
| 175.5 | 949.165 | 957.385 | 977.112  | 993.677  | 1002.908 |
| 176.0 | 951.315 | 957.764 | 973.950  | 987.481  | 995.195  |
| 176.5 | 953.338 | 958.270 | 971.295  | 981.917  | 988.240  |
| 177.0 | 954.982 | 958.649 | 968.892  | 976.985  | 982.170  |
| 177.5 | 956.500 | 958.902 | 966.869  | 972.686  | 976.859  |
| 178.0 | 957.638 | 959.155 | 965.225  | 969.271  | 972.559  |
| 178.5 | 958.649 | 959.282 | 963.960  | 966.363  | 969.145  |
| 179.0 | 959.408 | 959.408 | 963.075  | 964.340  | 966.616  |
| 179.5 | 959.787 | 959.534 | 962.569  | 963.202  | 965.225  |
| 180.0 | 961.811 | 961.811 | 961.811  | 961.811  | 961.811  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES****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    | 0.21    | N.A.  | 0.00   |
| 10-90   | 0.21    | 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   | 0.21    | N.A.  | 0.00   |
| 90-110  | 348.70  | N.A.  | 9.10   |
| 90-120  | 875.06  | N.A.  | 22.70  |
| 90-130  | 1568.3  | N.A.  | 40.80  |
| 90-150  | 2945.03 | N.A.  | 76.50  |
| 90-180  | 3847.6  | N.A.  | 100.00 |
| 110-180 | 3498.89 | N.A.  | 90.90  |
| 0-180   | 3847.81 | 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   | 0.21   |
| 90-100  | 69.90  |
| 100-110 | 278.80 |
| 110-120 | 526.35 |
| 120-130 | 693.25 |
| 130-140 | 724.11 |
| 140-150 | 652.61 |
| 150-160 | 505.57 |
| 160-170 | 302.16 |
| 170-180 | 94.84  |

# IES INDOOR REPORT

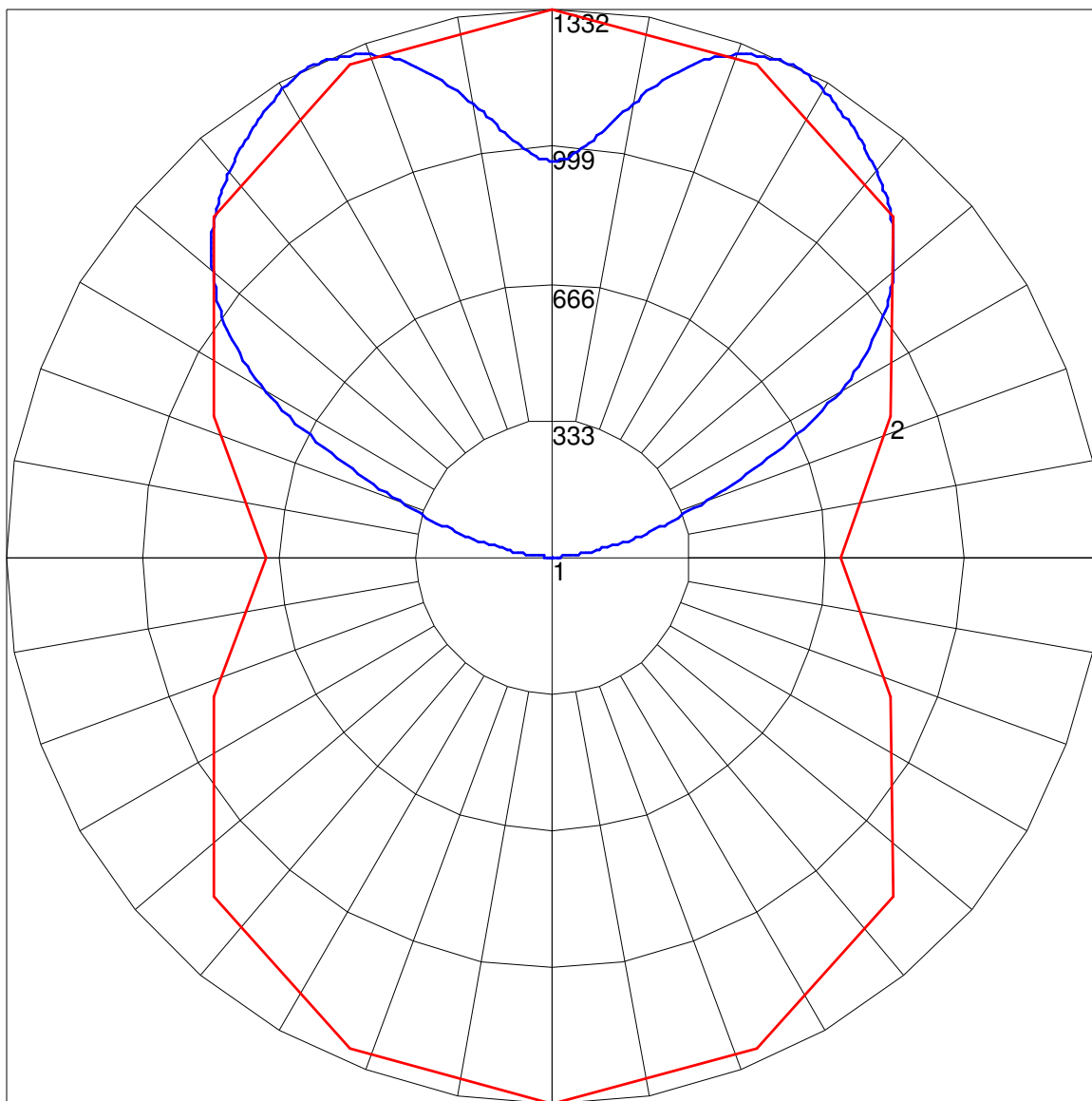
PHOTOMETRIC FILENAME : MX2U-4-00-L12-840-FW-(L10)-DIM-UNV\_.IES

## 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 = 1331.563 Located At Horizontal Angle = 90, Vertical Angle = 153.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (153.5) (Through Max. Cd.)