



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13131414.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 09/14/2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMCAT] 4CR-xx-L7-835-xxx-DIM-UNV-OW-OF-SG-xx  
 [LUMINAIRE] 4 INCH DIA. LED DOWNLIGHT CYLINDER  
 [MORE] WITH OPEN WIDE DISTRIBUTION, ANODIZED TRIM  
 [LAMP] COB LED  
 [LAMPCAT] BRIDGELUX VERO COB 80 CRI, 3500K CCT  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor, Downlight  
 [SEARCH\_MOUNTING] Pendant

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 667                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 77                 |
| Total Luminaire Watts           | 8.7                |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.02               |
| Spacing Criterion (90-270)      | 1.02               |
| Spacing Criterion (Diagonal)    | 0.88               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.21 ft (Diameter) |
| Luminous Width (90-270)         | 0.21 ft (Diameter) |
| 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                  | 41472            | 41472             | 41472             |
| 55                  | 15981            | 15981             | 15981             |
| 65                  | 5790             | 5790              | 5790              |
| 75                  | 2109             | 2109              | 2109              |
| 85                  | 646              | 646               | 646               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION**

|             | <u>0</u> |
|-------------|----------|
| <b>0.0</b>  | 605.444  |
| <b>0.5</b>  | 605.444  |
| <b>1.0</b>  | 605.147  |
| <b>1.5</b>  | 604.552  |
| <b>2.0</b>  | 603.957  |
| <b>2.5</b>  | 603.065  |
| <b>3.0</b>  | 602.173  |
| <b>3.5</b>  | 601.281  |
| <b>4.0</b>  | 600.092  |
| <b>4.5</b>  | 599.497  |
| <b>5.0</b>  | 598.605  |
| <b>5.5</b>  | 598.307  |
| <b>6.0</b>  | 597.713  |
| <b>6.5</b>  | 597.415  |
| <b>7.0</b>  | 597.118  |
| <b>7.5</b>  | 596.821  |
| <b>8.0</b>  | 596.821  |
| <b>8.5</b>  | 596.523  |
| <b>9.0</b>  | 596.226  |
| <b>9.5</b>  | 596.226  |
| <b>10.0</b> | 596.226  |
| <b>10.5</b> | 595.928  |
| <b>11.0</b> | 595.928  |
| <b>11.5</b> | 595.928  |
| <b>12.0</b> | 595.928  |
| <b>12.5</b> | 595.928  |
| <b>13.0</b> | 595.334  |
| <b>13.5</b> | 594.739  |
| <b>14.0</b> | 593.550  |
| <b>14.5</b> | 592.360  |
| <b>15.0</b> | 590.576  |
| <b>15.5</b> | 588.792  |
| <b>16.0</b> | 587.007  |
| <b>16.5</b> | 585.223  |
| <b>17.0</b> | 583.439  |
| <b>17.5</b> | 581.655  |
| <b>18.0</b> | 579.573  |
| <b>18.5</b> | 577.194  |
| <b>19.0</b> | 574.815  |
| <b>19.5</b> | 572.139  |
| <b>20.0</b> | 569.463  |
| <b>20.5</b> | 565.597  |
| <b>21.0</b> | 561.731  |
| <b>21.5</b> | 555.486  |
| <b>22.0</b> | 547.457  |
| <b>22.5</b> | 537.941  |
| <b>23.0</b> | 527.831  |
| <b>23.5</b> | 516.828  |
| <b>24.0</b> | 505.231  |
| <b>24.5</b> | 492.147  |
| <b>25.0</b> | 478.170  |
| <b>25.5</b> | 461.517  |
| <b>26.0</b> | 443.973  |
| <b>26.5</b> | 424.644  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 404.720 |
| 27.5 | 384.499 |
| 28.0 | 364.278 |
| 28.5 | 344.651 |
| 29.0 | 325.917 |
| 29.5 | 308.670 |
| 30.0 | 293.028 |
| 30.5 | 278.814 |
| 31.0 | 265.640 |
| 31.5 | 253.359 |
| 32.0 | 241.672 |
| 32.5 | 230.640 |
| 33.0 | 220.618 |
| 33.5 | 211.995 |
| 34.0 | 204.620 |
| 34.5 | 198.643 |
| 35.0 | 193.588 |
| 35.5 | 189.008 |
| 36.0 | 184.310 |
| 36.5 | 179.344 |
| 37.0 | 174.288 |
| 37.5 | 169.203 |
| 38.0 | 164.029 |
| 38.5 | 158.706 |
| 39.0 | 153.353 |
| 39.5 | 147.941 |
| 40.0 | 142.529 |
| 40.5 | 137.117 |
| 41.0 | 131.735 |
| 41.5 | 126.471 |
| 42.0 | 121.297 |
| 42.5 | 116.242 |
| 43.0 | 111.246 |
| 43.5 | 106.399 |
| 44.0 | 101.671 |
| 44.5 | 97.091  |
| 45.0 | 92.660  |
| 45.5 | 88.408  |
| 46.0 | 84.275  |
| 46.5 | 80.260  |
| 47.0 | 76.454  |
| 47.5 | 72.737  |
| 48.0 | 69.168  |
| 48.5 | 65.689  |
| 49.0 | 62.269  |
| 49.5 | 58.879  |
| 50.0 | 55.608  |
| 50.5 | 52.456  |
| 51.0 | 49.423  |
| 51.5 | 46.538  |
| 52.0 | 43.743  |
| 52.5 | 41.037  |
| 53.0 | 38.390  |
| 53.5 | 35.833  |
| 54.0 | 33.424  |
| 54.5 | 31.135  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |        |
|------|--------|
| 55.0 | 28.964 |
| 55.5 | 26.912 |
| 56.0 | 25.039 |
| 56.5 | 23.284 |
| 57.0 | 21.678 |
| 57.5 | 20.221 |
| 58.0 | 18.883 |
| 58.5 | 17.634 |
| 59.0 | 16.474 |
| 59.5 | 15.433 |
| 60.0 | 14.452 |
| 60.5 | 13.560 |
| 61.0 | 12.727 |
| 61.5 | 11.954 |
| 62.0 | 11.241 |
| 62.5 | 10.557 |
| 63.0 | 9.902  |
| 63.5 | 9.308  |
| 64.0 | 8.772  |
| 64.5 | 8.237  |
| 65.0 | 7.732  |
| 65.5 | 7.256  |
| 66.0 | 6.780  |
| 66.5 | 6.364  |
| 67.0 | 5.947  |
| 67.5 | 5.561  |
| 68.0 | 5.174  |
| 68.5 | 4.817  |
| 69.0 | 4.490  |
| 69.5 | 4.163  |
| 70.0 | 3.866  |
| 70.5 | 3.598  |
| 71.0 | 3.331  |
| 71.5 | 3.093  |
| 72.0 | 2.855  |
| 72.5 | 2.617  |
| 73.0 | 2.409  |
| 73.5 | 2.230  |
| 74.0 | 2.052  |
| 74.5 | 1.873  |
| 75.0 | 1.725  |
| 75.5 | 1.576  |
| 76.0 | 1.427  |
| 76.5 | 1.308  |
| 77.0 | 1.189  |
| 77.5 | 1.071  |
| 78.0 | 0.981  |
| 78.5 | 0.892  |
| 79.0 | 0.803  |
| 79.5 | 0.714  |
| 80.0 | 0.624  |
| 80.5 | 0.565  |
| 81.0 | 0.506  |
| 81.5 | 0.446  |
| 82.0 | 0.416  |
| 82.5 | 0.357  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 83.0  | 0.327 |
| 83.5  | 0.268 |
| 84.0  | 0.238 |
| 84.5  | 0.208 |
| 85.0  | 0.178 |
| 85.5  | 0.149 |
| 86.0  | 0.119 |
| 86.5  | 0.119 |
| 87.0  | 0.089 |
| 87.5  | 0.059 |
| 88.0  | 0.059 |
| 88.5  | 0.059 |
| 89.0  | 0.030 |
| 89.5  | 0.030 |
| 90.0  | 0.030 |
| 90.5  | 0.000 |
| 91.0  | 0.000 |
| 91.5  | 0.000 |
| 92.0  | 0.000 |
| 92.5  | 0.000 |
| 93.0  | 0.000 |
| 93.5  | 0.000 |
| 94.0  | 0.000 |
| 94.5  | 0.000 |
| 95.0  | 0.000 |
| 95.5  | 0.000 |
| 96.0  | 0.000 |
| 96.5  | 0.000 |
| 97.0  | 0.000 |
| 97.5  | 0.000 |
| 98.0  | 0.000 |
| 98.5  | 0.000 |
| 99.0  | 0.000 |
| 99.5  | 0.000 |
| 100.0 | 0.000 |
| 100.5 | 0.000 |
| 101.0 | 0.000 |
| 101.5 | 0.000 |
| 102.0 | 0.000 |
| 102.5 | 0.000 |
| 103.0 | 0.000 |
| 103.5 | 0.000 |
| 104.0 | 0.000 |
| 104.5 | 0.000 |
| 105.0 | 0.000 |
| 105.5 | 0.000 |
| 106.0 | 0.000 |
| 106.5 | 0.000 |
| 107.0 | 0.000 |
| 107.5 | 0.000 |
| 108.0 | 0.000 |
| 108.5 | 0.000 |
| 109.0 | 0.000 |
| 109.5 | 0.000 |
| 110.0 | 0.000 |
| 110.5 | 0.000 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 111.0 | 0.000 |
| 111.5 | 0.000 |
| 112.0 | 0.000 |
| 112.5 | 0.000 |
| 113.0 | 0.000 |
| 113.5 | 0.000 |
| 114.0 | 0.000 |
| 114.5 | 0.000 |
| 115.0 | 0.000 |
| 115.5 | 0.000 |
| 116.0 | 0.000 |
| 116.5 | 0.000 |
| 117.0 | 0.000 |
| 117.5 | 0.000 |
| 118.0 | 0.000 |
| 118.5 | 0.000 |
| 119.0 | 0.000 |
| 119.5 | 0.000 |
| 120.0 | 0.000 |
| 120.5 | 0.000 |
| 121.0 | 0.000 |
| 121.5 | 0.000 |
| 122.0 | 0.000 |
| 122.5 | 0.000 |
| 123.0 | 0.000 |
| 123.5 | 0.000 |
| 124.0 | 0.000 |
| 124.5 | 0.000 |
| 125.0 | 0.000 |
| 125.5 | 0.000 |
| 126.0 | 0.000 |
| 126.5 | 0.000 |
| 127.0 | 0.000 |
| 127.5 | 0.000 |
| 128.0 | 0.000 |
| 128.5 | 0.000 |
| 129.0 | 0.000 |
| 129.5 | 0.000 |
| 130.0 | 0.000 |
| 130.5 | 0.000 |
| 131.0 | 0.000 |
| 131.5 | 0.000 |
| 132.0 | 0.000 |
| 132.5 | 0.000 |
| 133.0 | 0.000 |
| 133.5 | 0.000 |
| 134.0 | 0.000 |
| 134.5 | 0.000 |
| 135.0 | 0.000 |
| 135.5 | 0.000 |
| 136.0 | 0.000 |
| 136.5 | 0.000 |
| 137.0 | 0.000 |
| 137.5 | 0.000 |
| 138.0 | 0.000 |
| 138.5 | 0.000 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 139.0 | 0.000 |
| 139.5 | 0.000 |
| 140.0 | 0.000 |
| 140.5 | 0.000 |
| 141.0 | 0.000 |
| 141.5 | 0.000 |
| 142.0 | 0.000 |
| 142.5 | 0.000 |
| 143.0 | 0.000 |
| 143.5 | 0.000 |
| 144.0 | 0.000 |
| 144.5 | 0.000 |
| 145.0 | 0.000 |
| 145.5 | 0.000 |
| 146.0 | 0.000 |
| 146.5 | 0.000 |
| 147.0 | 0.000 |
| 147.5 | 0.000 |
| 148.0 | 0.000 |
| 148.5 | 0.000 |
| 149.0 | 0.000 |
| 149.5 | 0.000 |
| 150.0 | 0.000 |
| 150.5 | 0.000 |
| 151.0 | 0.000 |
| 151.5 | 0.000 |
| 152.0 | 0.000 |
| 152.5 | 0.000 |
| 153.0 | 0.000 |
| 153.5 | 0.000 |
| 154.0 | 0.000 |
| 154.5 | 0.000 |
| 155.0 | 0.000 |
| 155.5 | 0.000 |
| 156.0 | 0.000 |
| 156.5 | 0.000 |
| 157.0 | 0.000 |
| 157.5 | 0.000 |
| 158.0 | 0.000 |
| 158.5 | 0.000 |
| 159.0 | 0.000 |
| 159.5 | 0.000 |
| 160.0 | 0.000 |
| 160.5 | 0.000 |
| 161.0 | 0.000 |
| 161.5 | 0.000 |
| 162.0 | 0.000 |
| 162.5 | 0.000 |
| 163.0 | 0.000 |
| 163.5 | 0.000 |
| 164.0 | 0.000 |
| 164.5 | 0.000 |
| 165.0 | 0.000 |
| 165.5 | 0.000 |
| 166.0 | 0.000 |
| 166.5 | 0.000 |

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 167.0 | 0.000 |
| 167.5 | 0.000 |
| 168.0 | 0.000 |
| 168.5 | 0.000 |
| 169.0 | 0.000 |
| 169.5 | 0.000 |
| 170.0 | 0.000 |
| 170.5 | 0.000 |
| 171.0 | 0.000 |
| 171.5 | 0.000 |
| 172.0 | 0.000 |
| 172.5 | 0.000 |
| 173.0 | 0.000 |
| 173.5 | 0.000 |
| 174.0 | 0.000 |
| 174.5 | 0.000 |
| 175.0 | 0.000 |
| 175.5 | 0.000 |
| 176.0 | 0.000 |
| 176.5 | 0.000 |
| 177.0 | 0.000 |
| 177.5 | 0.000 |
| 178.0 | 0.000 |
| 178.5 | 0.000 |
| 179.0 | 0.000 |
| 179.5 | 0.000 |
| 180.0 | 0.000 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L7-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 223.33 | N.A.  | 33.50  |
| 0-30    | 431.62 | N.A.  | 64.70  |
| 0-40    | 556.65 | N.A.  | 83.50  |
| 0-60    | 656.71 | N.A.  | 98.50  |
| 0-80    | 666.76 | N.A.  | 100.00 |
| 0-90    | 667.01 | N.A.  | 100.00 |
| 10-90   | 609.92 | N.A.  | 91.40  |
| 20-40   | 333.31 | N.A.  | 50.00  |
| 20-50   | 405.87 | N.A.  | 60.80  |
| 40-70   | 108.12 | N.A.  | 16.20  |
| 60-80   | 10.05  | N.A.  | 1.50   |
| 70-80   | 2.00   | N.A.  | 0.30   |
| 80-90   | 0.25   | N.A.  | 0.00   |
| 90-110  | 0.00   | N.A.  | 0.00   |
| 90-120  | 0.00   | N.A.  | 0.00   |
| 90-130  | 0.00   | N.A.  | 0.00   |
| 90-150  | 0.00   | N.A.  | 0.00   |
| 90-180  | 0.00   | N.A.  | 0.00   |
| 110-180 | 0.00   | N.A.  | 0.00   |
| 0-180   | 667.01 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 57.09  |
| 10-20   | 166.25 |
| 20-30   | 208.28 |
| 30-40   | 125.03 |
| 40-50   | 72.56  |
| 50-60   | 27.50  |
| 60-70   | 8.06   |
| 70-80   | 2.00   |
| 80-90   | 0.25   |
| 90-100  | 0.00   |
| 100-110 | 0.00   |
| 110-120 | 0.00   |
| 120-130 | 0.00   |
| 130-140 | 0.00   |
| 140-150 | 0.00   |
| 150-160 | 0.00   |
| 160-170 | 0.00   |
| 170-180 | 0.00   |

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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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 93  |
| 2  | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 92  | 97  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |
| 3  | 101 | 94  | 89  | 84  | 99  | 92  | 88  | 84  | 90  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 78  |
| 4  | 95  | 87  | 81  | 77  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 82  | 78  | 74  | 80  | 76  | 73  | 72  |
| 5  | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  |
| 6  | 85  | 75  | 69  | 64  | 83  | 75  | 69  | 64  | 73  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |
| 7  | 80  | 71  | 64  | 60  | 79  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 57  |
| 8  | 76  | 66  | 60  | 55  | 75  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 54  | 53  |
| 9  | 72  | 62  | 56  | 52  | 71  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |
| 10 | 69  | 58  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 56  | 51  | 48  | 46  |

# IES INDOOR REPORT

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## UGR TABLE - CORRECTED

### Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls          | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity   | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

### Room Size UGR Viewed Crosswise

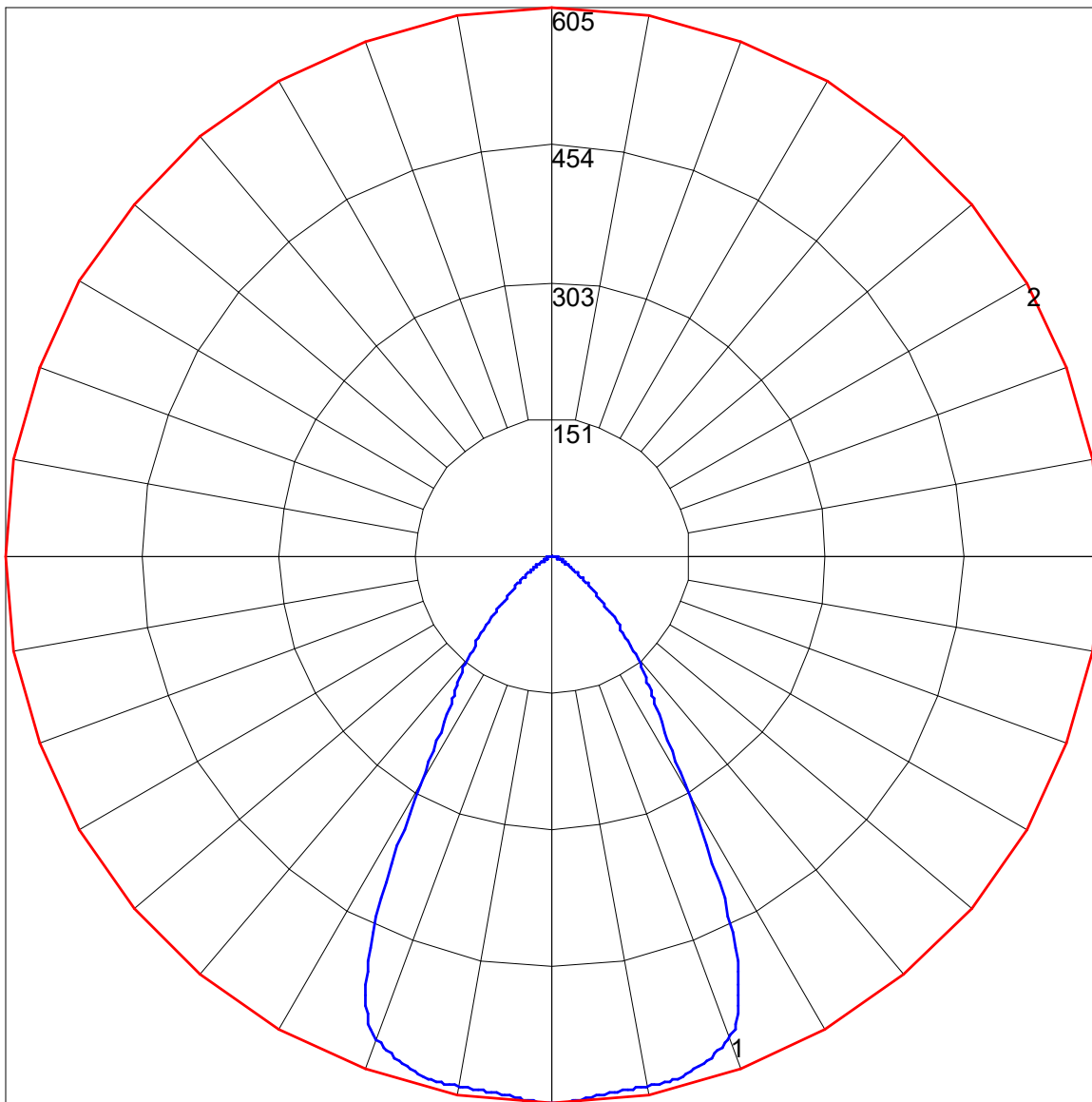
|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 14.6 | 15.7 | 15.0 | 16.0 | 16.3 | 14.6 | 15.7 | 15.0 | 16.0 | 16.3 |
|      | 3H   | 14.8 | 15.8 | 15.2 | 16.1 | 16.5 | 14.8 | 15.8 | 15.2 | 16.1 | 16.5 |
|      | 4H   | 14.8 | 15.7 | 15.2 | 16.0 | 16.4 | 14.8 | 15.7 | 15.2 | 16.0 | 16.4 |
|      | 6H   | 14.7 | 15.5 | 15.1 | 15.9 | 16.3 | 14.7 | 15.5 | 15.1 | 15.9 | 16.3 |
|      | 8H   | 14.7 | 15.4 | 15.1 | 15.8 | 16.2 | 14.7 | 15.4 | 15.1 | 15.8 | 16.2 |
|      | 12H  | 14.6 | 15.3 | 15.1 | 15.7 | 16.2 | 14.6 | 15.3 | 15.1 | 15.7 | 16.2 |

### UGR Viewed Endwise

|     |     |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H  | 2H  | 14.6 | 15.5 | 15.0 | 15.8 | 16.2 | 14.6 | 15.5 | 15.0 | 15.8 | 16.2 |
|     | 3H  | 14.9 | 15.6 | 15.3 | 16.0 | 16.4 | 14.9 | 15.6 | 15.3 | 16.0 | 16.4 |
|     | 4H  | 14.8 | 15.5 | 15.3 | 15.9 | 16.4 | 14.8 | 15.5 | 15.3 | 15.9 | 16.4 |
|     | 6H  | 14.8 | 15.3 | 15.3 | 15.8 | 16.3 | 14.8 | 15.3 | 15.3 | 15.8 | 16.3 |
|     | 8H  | 14.7 | 15.2 | 15.2 | 15.7 | 16.2 | 14.7 | 15.2 | 15.2 | 15.7 | 16.2 |
|     | 12H | 14.7 | 15.1 | 15.2 | 15.6 | 16.1 | 14.7 | 15.1 | 15.2 | 15.6 | 16.1 |
| 8H  | 4H  | 14.7 | 15.2 | 15.2 | 15.7 | 16.2 | 14.7 | 15.2 | 15.2 | 15.7 | 16.2 |
|     | 6H  | 14.7 | 15.1 | 15.2 | 15.6 | 16.0 | 14.7 | 15.1 | 15.2 | 15.6 | 16.0 |
|     | 8H  | 14.6 | 15.0 | 15.1 | 15.5 | 16.0 | 14.6 | 15.0 | 15.1 | 15.5 | 16.0 |
|     | 12H | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 |
| 12H | 4H  | 14.7 | 15.1 | 15.2 | 15.6 | 16.1 | 14.7 | 15.1 | 15.2 | 15.6 | 16.1 |
|     | 6H  | 14.6 | 15.0 | 15.1 | 15.4 | 16.0 | 14.6 | 15.0 | 15.1 | 15.4 | 16.0 |
|     | 8H  | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 |

Maximum UGR = 16.5

POLAR GRAPH



Maximum Candela = 605.444 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)