



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L12-835-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] 09/13/2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMCAT] 4CR-xx-L12-835-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                | 1126               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 79                 |
| Total Luminaire Watts           | 14.3               |
| 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                  | 70011            | 70011             | 70011             |
| 55                  | 26979            | 26979             | 26979             |
| 65                  | 9774             | 9774              | 9774              |
| 75                  | 3561             | 3561              | 3561              |
| 85                  | 1093             | 1093              | 1093              |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES

CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 1022.085 |
| 0.5  | 1022.085 |
| 1.0  | 1021.583 |
| 1.5  | 1020.579 |
| 2.0  | 1019.575 |
| 2.5  | 1018.069 |
| 3.0  | 1016.563 |
| 3.5  | 1015.056 |
| 4.0  | 1013.048 |
| 4.5  | 1012.044 |
| 5.0  | 1010.538 |
| 5.5  | 1010.036 |
| 6.0  | 1009.032 |
| 6.5  | 1008.530 |
| 7.0  | 1008.028 |
| 7.5  | 1007.526 |
| 8.0  | 1007.526 |
| 8.5  | 1007.024 |
| 9.0  | 1006.522 |
| 9.5  | 1006.522 |
| 10.0 | 1006.522 |
| 10.5 | 1006.020 |
| 11.0 | 1006.020 |
| 11.5 | 1006.020 |
| 12.0 | 1006.020 |
| 12.5 | 1006.020 |
| 13.0 | 1005.016 |
| 13.5 | 1004.012 |
| 14.0 | 1002.004 |
| 14.5 | 999.996  |
| 15.0 | 996.984  |
| 15.5 | 993.972  |
| 16.0 | 990.960  |
| 16.5 | 987.948  |
| 17.0 | 984.936  |
| 17.5 | 981.924  |
| 18.0 | 978.410  |
| 18.5 | 974.394  |
| 19.0 | 970.378  |
| 19.5 | 965.860  |
| 20.0 | 961.342  |
| 20.5 | 954.816  |
| 21.0 | 948.290  |
| 21.5 | 937.748  |
| 22.0 | 924.193  |
| 22.5 | 908.129  |
| 23.0 | 891.061  |
| 23.5 | 872.487  |
| 24.0 | 852.908  |
| 24.5 | 830.820  |
| 25.0 | 807.226  |
| 25.5 | 779.114  |
| 26.0 | 749.495  |
| 26.5 | 716.865  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 683.230 |
| 27.5 | 649.094 |
| 28.0 | 614.958 |
| 28.5 | 581.825 |
| 29.0 | 550.199 |
| 29.5 | 521.082 |
| 30.0 | 494.677 |
| 30.5 | 470.681 |
| 31.0 | 448.442 |
| 31.5 | 427.709 |
| 32.0 | 407.980 |
| 32.5 | 389.356 |
| 33.0 | 372.438 |
| 33.5 | 357.880 |
| 34.0 | 345.430 |
| 34.5 | 335.340 |
| 35.0 | 326.806 |
| 35.5 | 319.075 |
| 36.0 | 311.143 |
| 36.5 | 302.760 |
| 37.0 | 294.226 |
| 37.5 | 285.642 |
| 38.0 | 276.907 |
| 38.5 | 267.921 |
| 39.0 | 258.885 |
| 39.5 | 249.748 |
| 40.0 | 240.612 |
| 40.5 | 231.475 |
| 41.0 | 222.389 |
| 41.5 | 213.503 |
| 42.0 | 204.768 |
| 42.5 | 196.234 |
| 43.0 | 187.801 |
| 43.5 | 179.618 |
| 44.0 | 171.636 |
| 44.5 | 163.905 |
| 45.0 | 156.425 |
| 45.5 | 149.246 |
| 46.0 | 142.269 |
| 46.5 | 135.491 |
| 47.0 | 129.066 |
| 47.5 | 122.791 |
| 48.0 | 116.767 |
| 48.5 | 110.893 |
| 49.0 | 105.120 |
| 49.5 | 99.397  |
| 50.0 | 93.875  |
| 50.5 | 88.554  |
| 51.0 | 83.433  |
| 51.5 | 78.564  |
| 52.0 | 73.845  |
| 52.5 | 69.277  |
| 53.0 | 64.809  |
| 53.5 | 60.492  |
| 54.0 | 56.425  |
| 54.5 | 52.560  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |        |
|------|--------|
| 55.0 | 48.895 |
| 55.5 | 45.432 |
| 56.0 | 42.269 |
| 56.5 | 39.307 |
| 57.0 | 36.596 |
| 57.5 | 34.136 |
| 58.0 | 31.877 |
| 58.5 | 29.769 |
| 59.0 | 27.811 |
| 59.5 | 26.054 |
| 60.0 | 24.398 |
| 60.5 | 22.891 |
| 61.0 | 21.486 |
| 61.5 | 20.181 |
| 62.0 | 18.976 |
| 62.5 | 17.821 |
| 63.0 | 16.717 |
| 63.5 | 15.713 |
| 64.0 | 14.809 |
| 64.5 | 13.906 |
| 65.0 | 13.052 |
| 65.5 | 12.249 |
| 66.0 | 11.446 |
| 66.5 | 10.743 |
| 67.0 | 10.040 |
| 67.5 | 9.388  |
| 68.0 | 8.735  |
| 68.5 | 8.133  |
| 69.0 | 7.580  |
| 69.5 | 7.028  |
| 70.0 | 6.526  |
| 70.5 | 6.074  |
| 71.0 | 5.622  |
| 71.5 | 5.221  |
| 72.0 | 4.819  |
| 72.5 | 4.418  |
| 73.0 | 4.066  |
| 73.5 | 3.765  |
| 74.0 | 3.464  |
| 74.5 | 3.163  |
| 75.0 | 2.912  |
| 75.5 | 2.661  |
| 76.0 | 2.410  |
| 76.5 | 2.209  |
| 77.0 | 2.008  |
| 77.5 | 1.807  |
| 78.0 | 1.657  |
| 78.5 | 1.506  |
| 79.0 | 1.355  |
| 79.5 | 1.205  |
| 80.0 | 1.054  |
| 80.5 | 0.954  |
| 81.0 | 0.853  |
| 81.5 | 0.753  |
| 82.0 | 0.703  |
| 82.5 | 0.602  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES

CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.552 |
| 83.5  | 0.452 |
| 84.0  | 0.402 |
| 84.5  | 0.351 |
| 85.0  | 0.301 |
| 85.5  | 0.251 |
| 86.0  | 0.201 |
| 86.5  | 0.201 |
| 87.0  | 0.151 |
| 87.5  | 0.100 |
| 88.0  | 0.100 |
| 88.5  | 0.100 |
| 89.0  | 0.050 |
| 89.5  | 0.050 |
| 90.0  | 0.050 |
| 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-L12-835-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-L12-835-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-L12-835-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-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 377.02  | N.A.  | 33.50  |
| 0-30    | 728.64  | N.A.  | 64.70  |
| 0-40    | 939.71  | N.A.  | 83.50  |
| 0-60    | 1108.63 | N.A.  | 98.50  |
| 0-80    | 1125.6  | N.A.  | 100.00 |
| 0-90    | 1126.01 | N.A.  | 100.00 |
| 10-90   | 1029.64 | N.A.  | 91.40  |
| 20-40   | 562.68  | N.A.  | 50.00  |
| 20-50   | 685.18  | N.A.  | 60.80  |
| 40-70   | 182.52  | N.A.  | 16.20  |
| 60-80   | 16.97   | N.A.  | 1.50   |
| 70-80   | 3.37    | N.A.  | 0.30   |
| 80-90   | 0.42    | 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   | 1126.02 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 96.37  |
| 10-20   | 280.65 |
| 20-30   | 351.62 |
| 30-40   | 211.07 |
| 40-50   | 122.49 |
| 50-60   | 46.43  |
| 60-70   | 13.60  |
| 70-80   | 3.37   |
| 80-90   | 0.42   |
| 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   |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.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  | 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

PHOTOMETRIC FILENAME : 4CR-XX-L12-835-XXX-DIM-UNV-OW-OF-SG-XX\_.IES

## 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

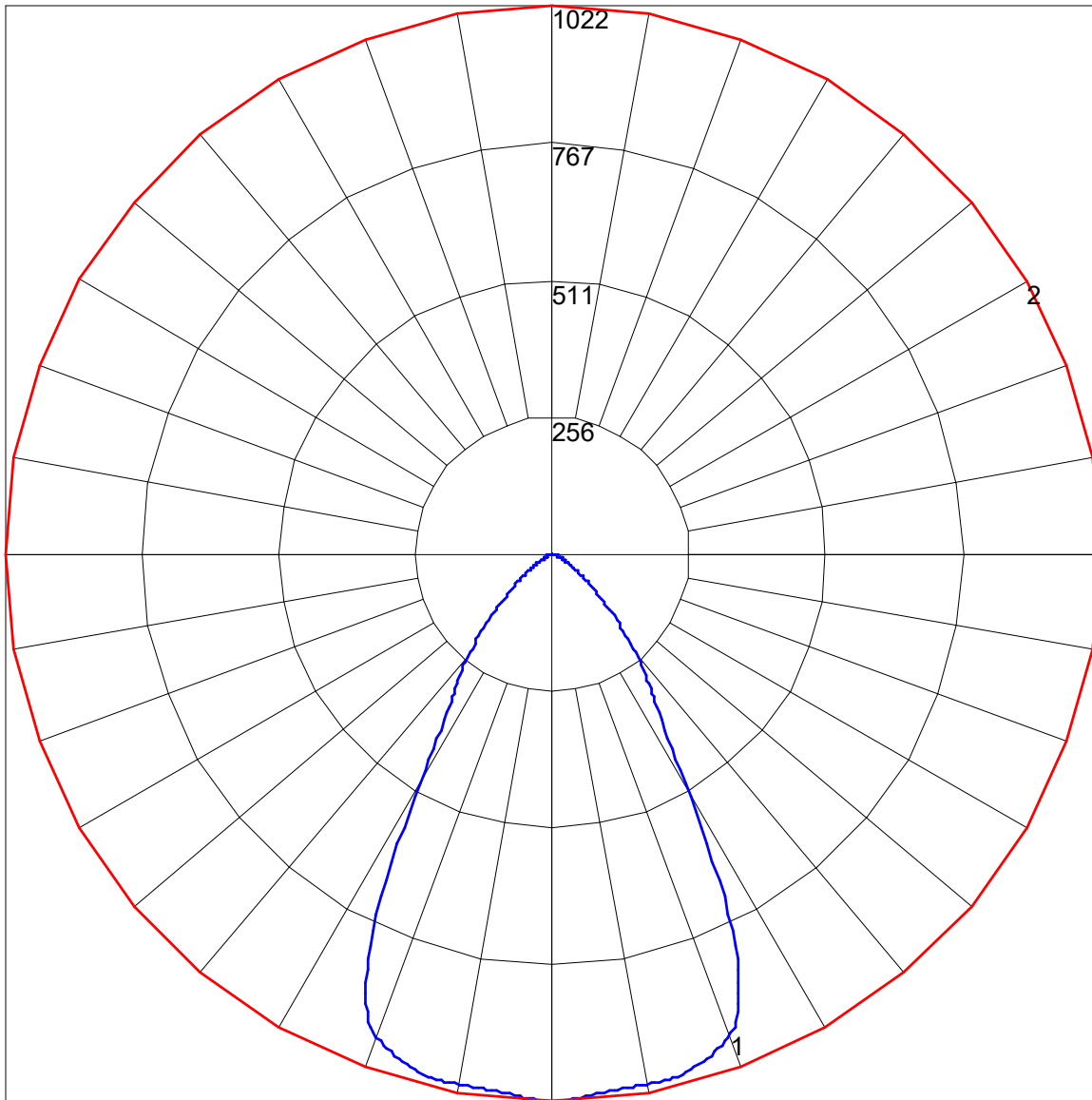
|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 16.4 | 17.5 | 16.8 | 17.8 | 18.1 | 16.4 | 17.5 | 16.8 | 17.8 | 18.1 |
|      | 3H   | 16.6 | 17.6 | 17.0 | 17.9 | 18.3 | 16.6 | 17.6 | 17.0 | 17.9 | 18.3 |
|      | 4H   | 16.6 | 17.5 | 17.0 | 17.8 | 18.2 | 16.6 | 17.5 | 17.0 | 17.8 | 18.2 |
|      | 6H   | 16.5 | 17.3 | 16.9 | 17.7 | 18.1 | 16.5 | 17.3 | 16.9 | 17.7 | 18.1 |
|      | 8H   | 16.5 | 17.2 | 16.9 | 17.6 | 18.0 | 16.5 | 17.2 | 16.9 | 17.6 | 18.0 |
|      | 12H  | 16.4 | 17.1 | 16.9 | 17.5 | 18.0 | 16.4 | 17.1 | 16.9 | 17.5 | 18.0 |

### UGR Viewed Endwise

|     |     |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H  | 2H  | 16.4 | 17.3 | 16.8 | 17.6 | 18.0 | 16.4 | 17.3 | 16.8 | 17.6 | 18.0 |
|     | 3H  | 16.7 | 17.4 | 17.1 | 17.8 | 18.2 | 16.7 | 17.4 | 17.1 | 17.8 | 18.2 |
|     | 4H  | 16.6 | 17.3 | 17.1 | 17.7 | 18.1 | 16.6 | 17.3 | 17.1 | 17.7 | 18.1 |
|     | 6H  | 16.6 | 17.1 | 17.1 | 17.6 | 18.0 | 16.6 | 17.1 | 17.1 | 17.6 | 18.0 |
|     | 8H  | 16.5 | 17.0 | 17.0 | 17.5 | 18.0 | 16.5 | 17.0 | 17.0 | 17.5 | 18.0 |
|     | 12H | 16.5 | 16.9 | 17.0 | 17.4 | 17.9 | 16.5 | 16.9 | 17.0 | 17.4 | 17.9 |
| 8H  | 4H  | 16.5 | 17.0 | 17.0 | 17.5 | 18.0 | 16.5 | 17.0 | 17.0 | 17.5 | 18.0 |
|     | 6H  | 16.5 | 16.9 | 17.0 | 17.4 | 17.8 | 16.5 | 16.9 | 17.0 | 17.4 | 17.8 |
|     | 8H  | 16.4 | 16.8 | 16.9 | 17.3 | 17.8 | 16.4 | 16.8 | 16.9 | 17.3 | 17.8 |
|     | 12H | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 |
| 12H | 4H  | 16.5 | 16.9 | 17.0 | 17.4 | 17.9 | 16.5 | 16.9 | 17.0 | 17.4 | 17.9 |
|     | 6H  | 16.4 | 16.8 | 16.9 | 17.2 | 17.8 | 16.4 | 16.8 | 16.9 | 17.2 | 17.8 |
|     | 8H  | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 |

Maximum UGR = 18.3

POLAR GRAPH



Maximum Candela = 1022.085 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.)