



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L20-835-XXX-DIM-UNV-OW-SG-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM 13131414.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 07-20-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMCAT] 4CR-xx-L20-835-xxx-DIM-UNV-OW-SG-xx  
 [LUMINAIRE] Aluminum housing and reflector, no enclosure  
 [LAMP] One white LED  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor, Downlight  
 [SEARCH\_MOUNTING] Pendant, Surface, Suspended, Wall

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1898               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 79                 |
| Total Luminaire Watts           | 23.9               |
| 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                  | 118010           | 118010            | 118010            |
| 55                  | 45475            | 45475             | 45475             |
| 65                  | 16475            | 16475             | 16475             |
| 75                  | 6001             | 6001              | 6001              |
| 85                  | 1845             | 1845              | 1845              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 1722.803 |
| 0.5  | 1722.803 |
| 1.0  | 1721.957 |
| 1.5  | 1720.264 |
| 2.0  | 1718.572 |
| 2.5  | 1716.033 |
| 3.0  | 1713.495 |
| 3.5  | 1710.956 |
| 4.0  | 1707.572 |
| 4.5  | 1705.879 |
| 5.0  | 1703.341 |
| 5.5  | 1702.495 |
| 6.0  | 1700.802 |
| 6.5  | 1699.956 |
| 7.0  | 1699.110 |
| 7.5  | 1698.264 |
| 8.0  | 1698.264 |
| 8.5  | 1697.418 |
| 9.0  | 1696.571 |
| 9.5  | 1696.571 |
| 10.0 | 1696.571 |
| 10.5 | 1695.725 |
| 11.0 | 1695.725 |
| 11.5 | 1695.725 |
| 12.0 | 1695.725 |
| 12.5 | 1695.725 |
| 13.0 | 1694.033 |
| 13.5 | 1692.341 |
| 14.0 | 1688.956 |
| 14.5 | 1685.571 |
| 15.0 | 1680.494 |
| 15.5 | 1675.417 |
| 16.0 | 1670.340 |
| 16.5 | 1665.263 |
| 17.0 | 1660.186 |
| 17.5 | 1655.109 |
| 18.0 | 1649.186 |
| 18.5 | 1642.417 |
| 19.0 | 1635.647 |
| 19.5 | 1628.032 |
| 20.0 | 1620.416 |
| 20.5 | 1609.416 |
| 21.0 | 1598.416 |
| 21.5 | 1580.646 |
| 22.0 | 1557.800 |
| 22.5 | 1530.722 |
| 23.0 | 1501.952 |
| 23.5 | 1470.644 |
| 24.0 | 1437.643 |
| 24.5 | 1400.412 |
| 25.0 | 1360.642 |
| 25.5 | 1313.256 |
| 26.0 | 1263.332 |
| 26.5 | 1208.331 |

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PHOTOMETRIC FILENAME : 4CR-XX-L20-835-XXX-DIM-UNV-OW-SG-XX\_.IES

CANDELA TABULATION - (Cont.)

|      |          |
|------|----------|
| 27.0 | 1151.638 |
| 27.5 | 1094.098 |
| 28.0 | 1036.559 |
| 28.5 | 980.711  |
| 29.0 | 927.403  |
| 29.5 | 878.325  |
| 30.0 | 833.816  |
| 30.5 | 793.369  |
| 31.0 | 755.884  |
| 31.5 | 720.937  |
| 32.0 | 687.683  |
| 32.5 | 656.290  |
| 33.0 | 627.774  |
| 33.5 | 603.235  |
| 34.0 | 582.250  |
| 34.5 | 565.242  |
| 35.0 | 550.857  |
| 35.5 | 537.826  |
| 36.0 | 524.456  |
| 36.5 | 510.325  |
| 37.0 | 495.940  |
| 37.5 | 481.471  |
| 38.0 | 466.748  |
| 38.5 | 451.601  |
| 39.0 | 436.370  |
| 39.5 | 420.970  |
| 40.0 | 405.569  |
| 40.5 | 390.169  |
| 41.0 | 374.853  |
| 41.5 | 359.876  |
| 42.0 | 345.153  |
| 42.5 | 330.768  |
| 43.0 | 316.552  |
| 43.5 | 302.760  |
| 44.0 | 289.306  |
| 44.5 | 276.275  |
| 45.0 | 263.667  |
| 45.5 | 251.566  |
| 46.0 | 239.805  |
| 46.5 | 228.381  |
| 47.0 | 217.550  |
| 47.5 | 206.973  |
| 48.0 | 196.819  |
| 48.5 | 186.919  |
| 49.0 | 177.188  |
| 49.5 | 167.542  |
| 50.0 | 158.234  |
| 50.5 | 149.264  |
| 51.0 | 140.634  |
| 51.5 | 132.426  |
| 52.0 | 124.472  |
| 52.5 | 116.772  |
| 53.0 | 109.241  |
| 53.5 | 101.964  |
| 54.0 | 95.110   |
| 54.5 | 88.594   |

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

|      |        |
|------|--------|
| 55.0 | 82.417 |
| 55.5 | 76.578 |
| 56.0 | 71.248 |
| 56.5 | 66.255 |
| 57.0 | 61.686 |
| 57.5 | 57.540 |
| 58.0 | 53.732 |
| 58.5 | 50.178 |
| 59.0 | 46.878 |
| 59.5 | 43.916 |
| 60.0 | 41.124 |
| 60.5 | 38.585 |
| 61.0 | 36.216 |
| 61.5 | 34.016 |
| 62.0 | 31.985 |
| 62.5 | 30.039 |
| 63.0 | 28.177 |
| 63.5 | 26.485 |
| 64.0 | 24.962 |
| 64.5 | 23.439 |
| 65.0 | 22.000 |
| 65.5 | 20.647 |
| 66.0 | 19.293 |
| 66.5 | 18.108 |
| 67.0 | 16.923 |
| 67.5 | 15.823 |
| 68.0 | 14.723 |
| 68.5 | 13.708 |
| 69.0 | 12.777 |
| 69.5 | 11.846 |
| 70.0 | 11.000 |
| 70.5 | 10.239 |
| 71.0 | 9.477  |
| 71.5 | 8.800  |
| 72.0 | 8.123  |
| 72.5 | 7.446  |
| 73.0 | 6.854  |
| 73.5 | 6.346  |
| 74.0 | 5.839  |
| 74.5 | 5.331  |
| 75.0 | 4.908  |
| 75.5 | 4.485  |
| 76.0 | 4.062  |
| 76.5 | 3.723  |
| 77.0 | 3.385  |
| 77.5 | 3.046  |
| 78.0 | 2.792  |
| 78.5 | 2.539  |
| 79.0 | 2.285  |
| 79.5 | 2.031  |
| 80.0 | 1.777  |
| 80.5 | 1.608  |
| 81.0 | 1.438  |
| 81.5 | 1.269  |
| 82.0 | 1.185  |
| 82.5 | 1.015  |

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.931 |
| 83.5  | 0.762 |
| 84.0  | 0.677 |
| 84.5  | 0.592 |
| 85.0  | 0.508 |
| 85.5  | 0.423 |
| 86.0  | 0.338 |
| 86.5  | 0.338 |
| 87.0  | 0.254 |
| 87.5  | 0.169 |
| 88.0  | 0.169 |
| 88.5  | 0.169 |
| 89.0  | 0.085 |
| 89.5  | 0.085 |
| 90.0  | 0.085 |
| 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-L20-835-XXX-DIM-UNV-OW-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  
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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 |

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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-L20-835-XXX-DIM-UNV-OW-SG-XX\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 635.50  | N.A.  | 33.50  |
| 0-30    | 1228.18 | N.A.  | 64.70  |
| 0-40    | 1583.95 | N.A.  | 83.50  |
| 0-60    | 1868.68 | N.A.  | 98.50  |
| 0-80    | 1897.28 | N.A.  | 100.00 |
| 0-90    | 1897.98 | N.A.  | 100.00 |
| 10-90   | 1735.54 | N.A.  | 91.40  |
| 20-40   | 948.45  | N.A.  | 50.00  |
| 20-50   | 1154.92 | N.A.  | 60.80  |
| 40-70   | 307.65  | N.A.  | 16.20  |
| 60-80   | 28.60   | N.A.  | 1.50   |
| 70-80   | 5.68    | N.A.  | 0.30   |
| 80-90   | 0.70    | 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   | 1897.99 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 162.45 |
| 10-20   | 473.06 |
| 20-30   | 592.68 |
| 30-40   | 355.77 |
| 40-50   | 206.47 |
| 50-60   | 78.26  |
| 60-70   | 22.92  |
| 70-80   | 5.68   |
| 80-90   | 0.70   |
| 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  | 88  | 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  |

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## UGR TABLE - CORRECTED

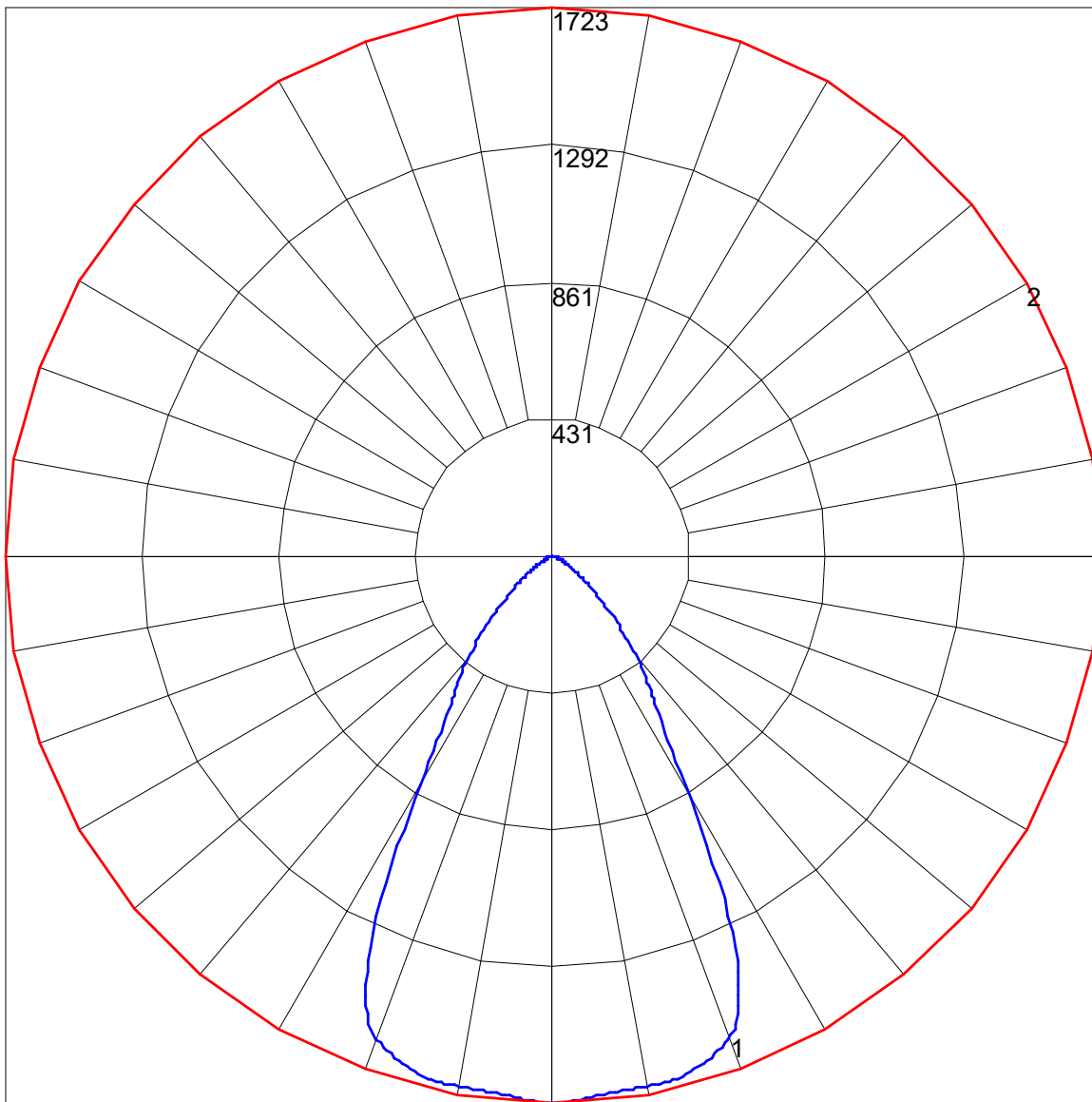
### Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 18.2                 | 19.3 | 18.6 | 19.6 | 19.9 | 18.2               | 19.3 | 18.6 | 19.6 | 19.9 |
|           | 3H   | 18.4                 | 19.4 | 18.8 | 19.7 | 20.1 | 18.4               | 19.4 | 18.8 | 19.7 | 20.1 |
|           | 4H   | 18.4                 | 19.3 | 18.8 | 19.6 | 20.0 | 18.4               | 19.3 | 18.8 | 19.6 | 20.0 |
|           | 6H   | 18.3                 | 19.1 | 18.7 | 19.5 | 19.9 | 18.3               | 19.1 | 18.7 | 19.5 | 19.9 |
|           | 8H   | 18.3                 | 19.0 | 18.7 | 19.4 | 19.8 | 18.3               | 19.0 | 18.7 | 19.4 | 19.8 |
|           | 12H  | 18.2                 | 18.9 | 18.7 | 19.3 | 19.8 | 18.2               | 18.9 | 18.7 | 19.3 | 19.8 |
| 4H        | 2H   | 18.2                 | 19.1 | 18.6 | 19.4 | 19.8 | 18.2               | 19.1 | 18.6 | 19.4 | 19.8 |
|           | 3H   | 18.5                 | 19.2 | 18.9 | 19.6 | 20.0 | 18.5               | 19.2 | 18.9 | 19.6 | 20.0 |
|           | 4H   | 18.4                 | 19.1 | 18.9 | 19.5 | 20.0 | 18.4               | 19.1 | 18.9 | 19.5 | 20.0 |
|           | 6H   | 18.4                 | 18.9 | 18.9 | 19.4 | 19.9 | 18.4               | 18.9 | 18.9 | 19.4 | 19.9 |
|           | 8H   | 18.3                 | 18.8 | 18.8 | 19.3 | 19.8 | 18.3               | 18.8 | 18.8 | 19.3 | 19.8 |
|           | 12H  | 18.3                 | 18.7 | 18.8 | 19.2 | 19.7 | 18.3               | 18.7 | 18.8 | 19.2 | 19.7 |
| 8H        | 4H   | 18.3                 | 18.8 | 18.8 | 19.3 | 19.8 | 18.3               | 18.8 | 18.8 | 19.3 | 19.8 |
|           | 6H   | 18.3                 | 18.7 | 18.8 | 19.2 | 19.6 | 18.3               | 18.7 | 18.8 | 19.2 | 19.6 |
|           | 8H   | 18.2                 | 18.6 | 18.7 | 19.1 | 19.6 | 18.2               | 18.6 | 18.7 | 19.1 | 19.6 |
|           | 12H  | 18.2                 | 18.5 | 18.7 | 19.0 | 19.5 | 18.2               | 18.5 | 18.7 | 19.0 | 19.5 |
| 12H       | 4H   | 18.3                 | 18.7 | 18.8 | 19.2 | 19.7 | 18.3               | 18.7 | 18.8 | 19.2 | 19.7 |
|           | 6H   | 18.2                 | 18.6 | 18.7 | 19.0 | 19.6 | 18.2               | 18.6 | 18.7 | 19.0 | 19.6 |
|           | 8H   | 18.2                 | 18.5 | 18.7 | 19.0 | 19.5 | 18.2               | 18.5 | 18.7 | 19.0 | 19.5 |

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 1722.803 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.)