

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-830-DIM-UNV-RW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L18-830-DIM-UNV-RW-OF-CS_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1682 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 70 |
| Total Luminaire Watts | 23.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.80 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 60321 | 60321 | 60321 |
| 55 | 47732 | 47732 | 47732 |
| 65 | 35681 | 35681 | 35681 |
| 75 | 18578 | 18578 | 18578 |
| 85 | 11260 | 11260 | 11260 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 2005.089 |
| 0.5 | 2005.089 |
| 1.0 | 2004.055 |
| 1.5 | 2003.022 |
| 2.0 | 2003.022 |
| 2.5 | 2000.955 |
| 3.0 | 1997.854 |
| 3.5 | 1993.720 |
| 4.0 | 1989.586 |
| 4.5 | 1985.451 |
| 5.0 | 1979.250 |
| 5.5 | 1974.082 |
| 6.0 | 1967.881 |
| 6.5 | 1960.646 |
| 7.0 | 1953.411 |
| 7.5 | 1946.176 |
| 8.0 | 1938.942 |
| 8.5 | 1930.673 |
| 9.0 | 1921.371 |
| 9.5 | 1913.103 |
| 10.0 | 1903.801 |
| 10.5 | 1893.465 |
| 11.0 | 1882.096 |
| 11.5 | 1870.727 |
| 12.0 | 1858.325 |
| 12.5 | 1845.922 |
| 13.0 | 1832.486 |
| 13.5 | 1818.016 |
| 14.0 | 1802.513 |
| 14.5 | 1787.010 |
| 15.0 | 1769.439 |
| 15.5 | 1751.869 |
| 16.0 | 1732.231 |
| 16.5 | 1712.594 |
| 17.0 | 1691.923 |
| 17.5 | 1670.218 |
| 18.0 | 1647.480 |
| 18.5 | 1622.675 |
| 19.0 | 1596.836 |
| 19.5 | 1568.930 |
| 20.0 | 1539.991 |
| 20.5 | 1510.018 |
| 21.0 | 1477.978 |
| 21.5 | 1444.904 |
| 22.0 | 1408.730 |
| 22.5 | 1372.556 |
| 23.0 | 1334.314 |
| 23.5 | 1295.039 |
| 24.0 | 1253.697 |
| 24.5 | 1212.355 |
| 25.0 | 1169.980 |
| 25.5 | 1125.537 |
| 26.0 | 1080.061 |
| 26.5 | 1034.585 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 989.418 |
| 27.5 | 944.045 |
| 28.0 | 898.259 |
| 28.5 | 852.680 |
| 29.0 | 806.066 |
| 29.5 | 759.143 |
| 30.0 | 712.633 |
| 30.5 | 666.847 |
| 31.0 | 621.681 |
| 31.5 | 578.065 |
| 32.0 | 536.103 |
| 32.5 | 496.415 |
| 33.0 | 459.620 |
| 33.5 | 425.513 |
| 34.0 | 393.783 |
| 34.5 | 364.740 |
| 35.0 | 338.385 |
| 35.5 | 314.199 |
| 36.0 | 292.288 |
| 36.5 | 272.651 |
| 37.0 | 255.184 |
| 37.5 | 239.577 |
| 38.0 | 225.417 |
| 38.5 | 212.808 |
| 39.0 | 201.749 |
| 39.5 | 192.034 |
| 40.0 | 183.352 |
| 40.5 | 175.807 |
| 41.0 | 169.089 |
| 41.5 | 163.094 |
| 42.0 | 157.720 |
| 42.5 | 152.966 |
| 43.0 | 148.625 |
| 43.5 | 144.800 |
| 44.0 | 141.183 |
| 44.5 | 137.876 |
| 45.0 | 134.775 |
| 45.5 | 131.778 |
| 46.0 | 128.987 |
| 46.5 | 126.197 |
| 47.0 | 123.613 |
| 47.5 | 121.029 |
| 48.0 | 118.445 |
| 48.5 | 115.964 |
| 49.0 | 113.484 |
| 49.5 | 111.003 |
| 50.0 | 108.626 |
| 50.5 | 106.352 |
| 51.0 | 103.975 |
| 51.5 | 101.701 |
| 52.0 | 99.531 |
| 52.5 | 97.257 |
| 53.0 | 95.087 |
| 53.5 | 92.916 |
| 54.0 | 90.746 |
| 54.5 | 88.575 |

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PHOTOMETRIC FILENAME : V2DR-L18-830-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 86.508 |
| 55.5 | 84.441 |
| 56.0 | 82.374 |
| 56.5 | 80.307 |
| 57.0 | 78.240 |
| 57.5 | 76.276 |
| 58.0 | 74.209 |
| 58.5 | 72.245 |
| 59.0 | 70.281 |
| 59.5 | 68.421 |
| 60.0 | 66.457 |
| 60.5 | 64.494 |
| 61.0 | 62.530 |
| 61.5 | 60.669 |
| 62.0 | 58.706 |
| 62.5 | 56.845 |
| 63.0 | 54.985 |
| 63.5 | 53.125 |
| 64.0 | 51.264 |
| 64.5 | 49.404 |
| 65.0 | 47.647 |
| 65.5 | 45.890 |
| 66.0 | 44.133 |
| 66.5 | 42.272 |
| 67.0 | 40.619 |
| 67.5 | 38.965 |
| 68.0 | 37.208 |
| 68.5 | 35.554 |
| 69.0 | 33.900 |
| 69.5 | 32.247 |
| 70.0 | 30.696 |
| 70.5 | 29.043 |
| 71.0 | 27.492 |
| 71.5 | 25.839 |
| 72.0 | 24.288 |
| 72.5 | 22.738 |
| 73.0 | 21.188 |
| 73.5 | 19.637 |
| 74.0 | 18.190 |
| 74.5 | 16.640 |
| 75.0 | 15.193 |
| 75.5 | 13.850 |
| 76.0 | 12.506 |
| 76.5 | 11.472 |
| 77.0 | 10.542 |
| 77.5 | 9.715 |
| 78.0 | 9.095 |
| 78.5 | 8.578 |
| 79.0 | 8.165 |
| 79.5 | 7.752 |
| 80.0 | 7.235 |
| 80.5 | 6.821 |
| 81.0 | 6.408 |
| 81.5 | 5.995 |
| 82.0 | 5.478 |
| 82.5 | 5.064 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 4.754 |
| 83.5 | 4.341 |
| 84.0 | 3.927 |
| 84.5 | 3.514 |
| 85.0 | 3.101 |
| 85.5 | 2.791 |
| 86.0 | 2.377 |
| 86.5 | 2.067 |
| 87.0 | 1.654 |
| 87.5 | 1.344 |
| 88.0 | 1.034 |
| 88.5 | 0.723 |
| 89.0 | 0.413 |
| 89.5 | 0.310 |
| 90.0 | 0.000 |
| 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 : V2DR-L18-830-DIM-UNV-RW-OF-CS_.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 : V2DR-L18-830-DIM-UNV-RW-OF-CS_.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 : V2DR-L18-830-DIM-UNV-RW-OF-CS_.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
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 678.18 | N.A. | 40.30 |
| 0-30 | 1200.56 | N.A. | 71.40 |
| 0-40 | 1430.41 | N.A. | 85.00 |
| 0-60 | 1614.13 | N.A. | 95.90 |
| 0-80 | 1678.88 | N.A. | 99.80 |
| 0-90 | 1682.46 | N.A. | 100.00 |
| 10-90 | 1495.95 | N.A. | 88.90 |
| 20-40 | 752.22 | N.A. | 44.70 |
| 20-50 | 858.41 | N.A. | 51.00 |
| 40-70 | 231.08 | N.A. | 13.70 |
| 60-80 | 64.76 | N.A. | 3.80 |
| 70-80 | 17.40 | N.A. | 1.00 |
| 80-90 | 3.58 | N.A. | 0.20 |
| 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 | 1682.46 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 186.51 |
| 10-20 | 491.68 |
| 20-30 | 522.38 |
| 30-40 | 229.84 |
| 40-50 | 106.19 |
| 50-60 | 77.53 |
| 60-70 | 47.36 |
| 70-80 | 17.40 |
| 80-90 | 3.58 |
| 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 | 98 | 97 | 97 | 95 | 94 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | 82 | 79 | 75 | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 75 | 71 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 75 | 70 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 63 |
| 7 | 82 | 73 | 66 | 62 | 81 | 72 | 66 | 62 | 71 | 65 | 61 | 69 | 65 | 61 | 68 | 64 | 61 | 59 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 75 | 65 | 59 | 55 | 73 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 58 | 54 | 62 | 57 | 54 | 53 |
| 10 | 71 | 61 | 55 | 52 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 |

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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 | 20.7 | 21.8 | 21.1 | 22.1 | 22.4 | 20.7 | 21.8 | 21.1 | 22.1 | 22.4 |
| | 3H | 21.7 | 22.7 | 22.1 | 23.0 | 23.4 | 21.7 | 22.7 | 22.1 | 23.0 | 23.4 |
| | 4H | 21.9 | 22.8 | 22.3 | 23.2 | 23.6 | 21.9 | 22.8 | 22.3 | 23.2 | 23.6 |
| | 6H | 21.9 | 22.8 | 22.4 | 23.2 | 23.5 | 21.9 | 22.8 | 22.4 | 23.2 | 23.5 |
| | 8H | 21.9 | 22.7 | 22.4 | 23.1 | 23.5 | 21.9 | 22.7 | 22.4 | 23.1 | 23.5 |
| | 12H | 21.9 | 22.7 | 22.4 | 23.1 | 23.5 | 21.9 | 22.7 | 22.4 | 23.1 | 23.5 |

UGR Viewed Endwise

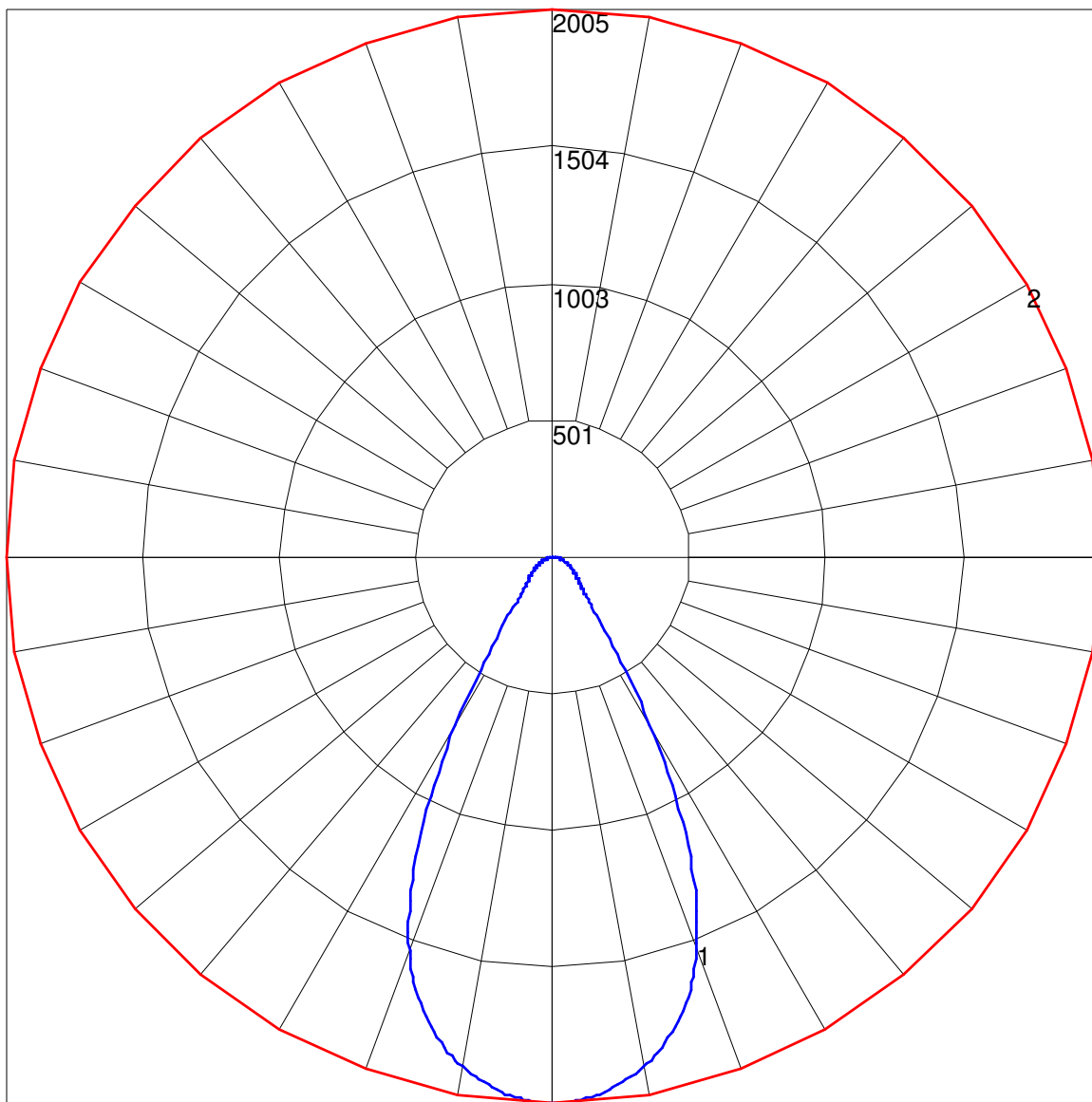
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 21.0 | 21.9 | 21.4 | 22.3 | 22.7 | 21.0 | 21.9 | 21.4 | 22.3 | 22.7 |
| | 3H | 22.2 | 22.9 | 22.6 | 23.4 | 23.8 | 22.2 | 22.9 | 22.6 | 23.4 | 23.8 |
| | 4H | 22.4 | 23.1 | 22.9 | 23.5 | 24.0 | 22.4 | 23.1 | 22.9 | 23.5 | 24.0 |
| | 6H | 22.5 | 23.1 | 23.0 | 23.5 | 24.0 | 22.5 | 23.1 | 23.0 | 23.5 | 24.0 |
| | 8H | 22.5 | 23.0 | 23.0 | 23.5 | 24.0 | 22.5 | 23.0 | 23.0 | 23.5 | 24.0 |
| | 12H | 22.5 | 23.0 | 23.0 | 23.5 | 23.9 | 22.5 | 23.0 | 23.0 | 23.5 | 23.9 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 22.4 | 23.0 | 22.9 | 23.4 | 23.9 | 22.4 | 23.0 | 22.9 | 23.4 | 23.9 |
| | 6H | 22.6 | 23.0 | 23.1 | 23.5 | 24.0 | 22.6 | 23.0 | 23.1 | 23.5 | 24.0 |
| | 8H | 22.6 | 23.0 | 23.1 | 23.5 | 24.0 | 22.6 | 23.0 | 23.1 | 23.5 | 24.0 |
| | 12H | 22.6 | 22.9 | 23.1 | 23.4 | 24.0 | 22.6 | 22.9 | 23.1 | 23.4 | 24.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 22.4 | 22.8 | 22.9 | 23.3 | 23.8 | 22.4 | 22.8 | 22.9 | 23.3 | 23.8 |
| | 6H | 22.5 | 22.9 | 23.1 | 23.4 | 23.9 | 22.5 | 22.9 | 23.1 | 23.4 | 23.9 |
| | 8H | 22.6 | 22.9 | 23.1 | 23.4 | 24.0 | 22.6 | 22.9 | 23.1 | 23.4 | 24.0 |

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 2005.089 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.)