

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-840-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13257153.01

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 2025-05-20

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V2DR-L18-840-DIM-UNV-LW-OF_

[LUMINAIRE] Aluminum housing, optics, and trim enclosure

[LAMP] One white LED

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Downlight, Vandal-Resistant

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1823 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 76 |
| Total Luminaire Watts | 23.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.86 |
| Spacing Criterion (90-270) | 0.86 |
| Spacing Criterion (Diagonal) | 0.78 |
| 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 | 75196 | 75196 | 75196 |
| 55 | 65674 | 65674 | 65674 |
| 65 | 56102 | 56102 | 56102 |
| 75 | 45261 | 45261 | 45261 |
| 85 | 25353 | 25353 | 25353 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 2151.088 |
| 0.5 | 2149.980 |
| 1.0 | 2149.980 |
| 1.5 | 2148.872 |
| 2.0 | 2147.763 |
| 2.5 | 2144.439 |
| 3.0 | 2141.114 |
| 3.5 | 2137.789 |
| 4.0 | 2133.356 |
| 4.5 | 2127.815 |
| 5.0 | 2122.274 |
| 5.5 | 2116.733 |
| 6.0 | 2111.192 |
| 6.5 | 2104.542 |
| 7.0 | 2097.893 |
| 7.5 | 2091.243 |
| 8.0 | 2083.486 |
| 8.5 | 2075.728 |
| 9.0 | 2066.862 |
| 9.5 | 2057.996 |
| 10.0 | 2048.022 |
| 10.5 | 2036.940 |
| 11.0 | 2025.857 |
| 11.5 | 2013.667 |
| 12.0 | 2001.476 |
| 12.5 | 1987.069 |
| 13.0 | 1972.662 |
| 13.5 | 1957.147 |
| 14.0 | 1940.523 |
| 14.5 | 1922.791 |
| 15.0 | 1903.951 |
| 15.5 | 1882.895 |
| 16.0 | 1861.838 |
| 16.5 | 1838.565 |
| 17.0 | 1813.076 |
| 17.5 | 1787.586 |
| 18.0 | 1758.772 |
| 18.5 | 1728.850 |
| 19.0 | 1695.603 |
| 19.5 | 1660.139 |
| 20.0 | 1623.567 |
| 20.5 | 1583.671 |
| 21.0 | 1542.666 |
| 21.5 | 1498.336 |
| 22.0 | 1451.791 |
| 22.5 | 1404.136 |
| 23.0 | 1354.266 |
| 23.5 | 1303.287 |
| 24.0 | 1251.200 |
| 24.5 | 1198.004 |
| 25.0 | 1143.701 |
| 25.5 | 1089.951 |
| 26.0 | 1035.537 |
| 26.5 | 981.676 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 928.592 |
| 27.5 | 876.615 |
| 28.0 | 825.747 |
| 28.5 | 776.098 |
| 29.0 | 728.001 |
| 29.5 | 681.122 |
| 30.0 | 637.125 |
| 30.5 | 595.567 |
| 31.0 | 556.335 |
| 31.5 | 519.763 |
| 32.0 | 485.519 |
| 32.5 | 453.712 |
| 33.0 | 424.566 |
| 33.5 | 397.857 |
| 34.0 | 373.587 |
| 34.5 | 351.422 |
| 35.0 | 331.252 |
| 35.5 | 312.966 |
| 36.0 | 296.453 |
| 36.5 | 281.714 |
| 37.0 | 268.415 |
| 37.5 | 256.557 |
| 38.0 | 245.918 |
| 38.5 | 236.276 |
| 39.0 | 227.632 |
| 39.5 | 219.874 |
| 40.0 | 212.782 |
| 40.5 | 206.465 |
| 41.0 | 200.702 |
| 41.5 | 195.382 |
| 42.0 | 190.506 |
| 42.5 | 185.962 |
| 43.0 | 181.862 |
| 43.5 | 178.094 |
| 44.0 | 174.547 |
| 44.5 | 171.223 |
| 45.0 | 168.009 |
| 45.5 | 165.016 |
| 46.0 | 162.135 |
| 46.5 | 159.364 |
| 47.0 | 156.705 |
| 47.5 | 154.045 |
| 48.0 | 151.496 |
| 48.5 | 148.947 |
| 49.0 | 146.398 |
| 49.5 | 143.960 |
| 50.0 | 141.633 |
| 50.5 | 139.305 |
| 51.0 | 136.867 |
| 51.5 | 134.651 |
| 52.0 | 132.324 |
| 52.5 | 130.107 |
| 53.0 | 127.891 |
| 53.5 | 125.674 |
| 54.0 | 123.458 |
| 54.5 | 121.241 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 55.0 | 119.025 |
| 55.5 | 116.808 |
| 56.0 | 114.703 |
| 56.5 | 112.375 |
| 57.0 | 110.270 |
| 57.5 | 108.053 |
| 58.0 | 105.837 |
| 58.5 | 103.620 |
| 59.0 | 101.404 |
| 59.5 | 99.187 |
| 60.0 | 96.971 |
| 60.5 | 94.754 |
| 61.0 | 92.538 |
| 61.5 | 90.210 |
| 62.0 | 88.105 |
| 62.5 | 85.888 |
| 63.0 | 83.561 |
| 63.5 | 81.345 |
| 64.0 | 79.128 |
| 64.5 | 77.022 |
| 65.0 | 74.917 |
| 65.5 | 72.811 |
| 66.0 | 70.706 |
| 66.5 | 68.711 |
| 67.0 | 66.605 |
| 67.5 | 64.721 |
| 68.0 | 62.726 |
| 68.5 | 60.842 |
| 69.0 | 58.958 |
| 69.5 | 56.963 |
| 70.0 | 55.079 |
| 70.5 | 53.195 |
| 71.0 | 51.422 |
| 71.5 | 49.538 |
| 72.0 | 47.654 |
| 72.5 | 45.881 |
| 73.0 | 43.997 |
| 73.5 | 42.224 |
| 74.0 | 40.561 |
| 74.5 | 38.788 |
| 75.0 | 37.015 |
| 75.5 | 35.353 |
| 76.0 | 33.690 |
| 76.5 | 32.028 |
| 77.0 | 30.477 |
| 77.5 | 28.814 |
| 78.0 | 27.263 |
| 78.5 | 25.711 |
| 79.0 | 24.160 |
| 79.5 | 22.608 |
| 80.0 | 21.167 |
| 80.5 | 19.616 |
| 81.0 | 18.175 |
| 81.5 | 16.734 |
| 82.0 | 15.294 |
| 82.5 | 13.853 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|--------|
| 83.0 | 12.523 |
| 83.5 | 11.082 |
| 84.0 | 9.752 |
| 84.5 | 8.312 |
| 85.0 | 6.982 |
| 85.5 | 5.541 |
| 86.0 | 4.100 |
| 86.5 | 3.103 |
| 87.0 | 2.216 |
| 87.5 | 1.330 |
| 88.0 | 0.887 |
| 88.5 | 0.665 |
| 89.0 | 0.443 |
| 89.5 | 0.332 |
| 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-L18-840-DIM-UNV-LW-OF_.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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L18-840-DIM-UNV-LW-OF_.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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 727.24 | N.A. | 39.90 |
| 0-30 | 1239.82 | N.A. | 68.00 |
| 0-40 | 1462.52 | N.A. | 80.20 |
| 0-60 | 1700.57 | N.A. | 93.30 |
| 0-80 | 1814.51 | N.A. | 99.50 |
| 0-90 | 1823.29 | N.A. | 100.00 |
| 10-90 | 1623.01 | N.A. | 89.00 |
| 20-40 | 735.29 | N.A. | 40.30 |
| 20-50 | 866.88 | N.A. | 47.50 |
| 40-70 | 312.53 | N.A. | 17.10 |
| 60-80 | 113.94 | N.A. | 6.20 |
| 70-80 | 39.45 | N.A. | 2.20 |
| 80-90 | 8.78 | N.A. | 0.50 |
| 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 | 1823.29 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 200.28 |
| 10-20 | 526.96 |
| 20-30 | 512.59 |
| 30-40 | 222.70 |
| 40-50 | 131.59 |
| 50-60 | 106.45 |
| 60-70 | 74.49 |
| 70-80 | 39.45 |
| 80-90 | 8.78 |
| 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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 82 | 79 | 84 | 81 | 78 | 76 |
| 4 | 94 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 70 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 63 | 61 |
| 7 | 81 | 71 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 57 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 59 | 54 | 50 | 58 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 48 |

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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 | 22.8 | 23.9 | 23.1 | 24.3 | 24.6 | 22.8 | 23.9 | 23.1 | 24.3 | 24.6 |
| | 3H | 24.3 | 25.3 | 24.7 | 25.6 | 26.0 | 24.3 | 25.3 | 24.7 | 25.6 | 26.0 |
| | 4H | 24.8 | 25.8 | 25.2 | 26.1 | 26.5 | 24.8 | 25.8 | 25.2 | 26.1 | 26.5 |
| | 6H | 25.1 | 26.0 | 25.5 | 26.4 | 26.8 | 25.1 | 26.0 | 25.5 | 26.4 | 26.8 |
| | 8H | 25.2 | 26.1 | 25.6 | 26.5 | 26.9 | 25.2 | 26.1 | 25.6 | 26.5 | 26.9 |
| | 12H | 25.2 | 26.1 | 25.7 | 26.4 | 26.9 | 25.2 | 26.1 | 25.7 | 26.4 | 26.9 |

UGR Viewed Endwise

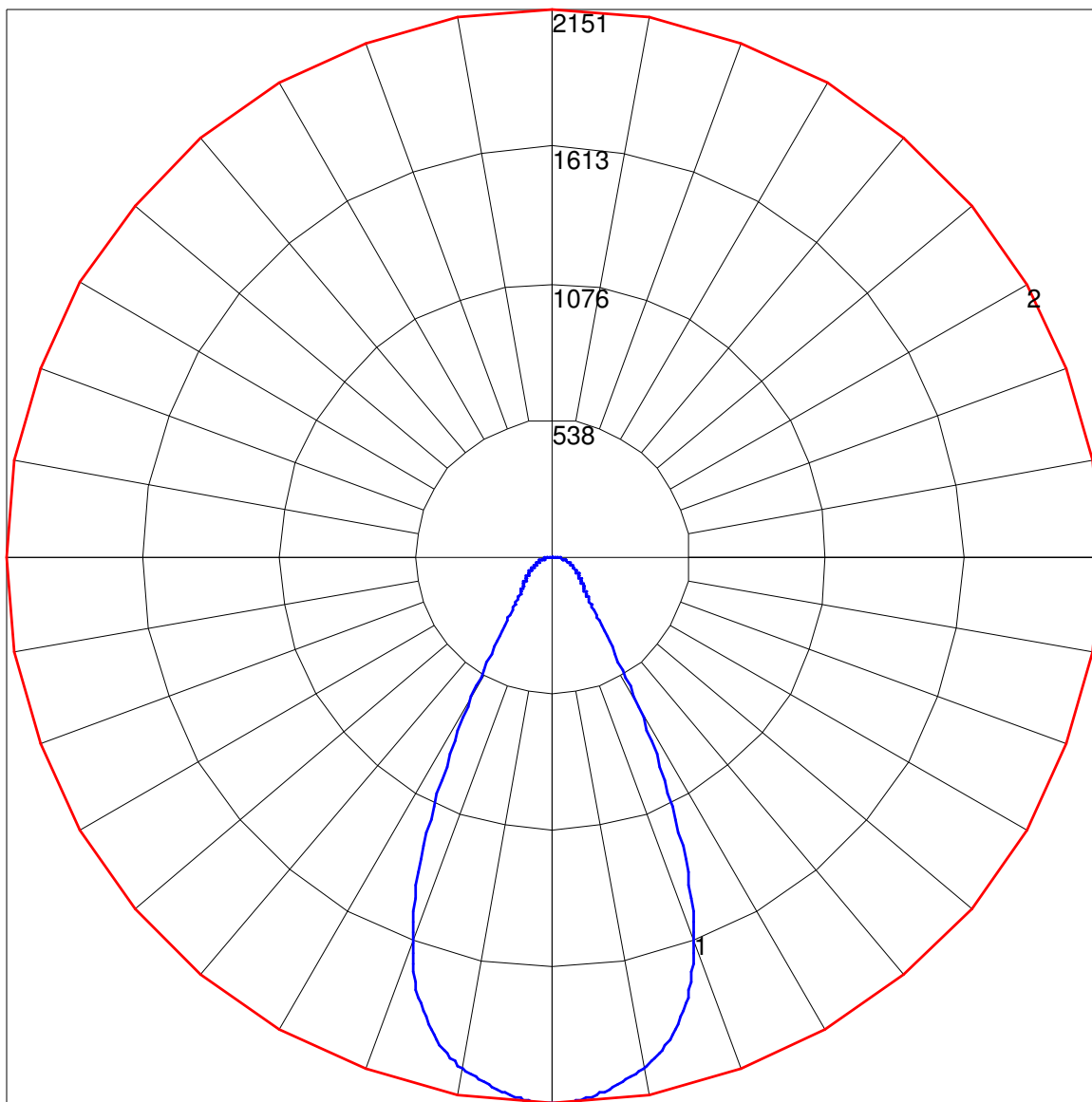
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 23.3 | 24.2 | 23.7 | 24.6 | 25.0 | 23.3 | 24.2 | 23.7 | 24.6 | 25.0 |
| | 3H | 24.9 | 25.7 | 25.3 | 26.1 | 26.5 | 24.9 | 25.7 | 25.3 | 26.1 | 26.5 |
| | 4H | 25.6 | 26.3 | 26.0 | 26.7 | 27.2 | 25.6 | 26.3 | 26.0 | 26.7 | 27.2 |
| | 6H | 26.0 | 26.6 | 26.5 | 27.1 | 27.6 | 26.0 | 26.6 | 26.5 | 27.1 | 27.6 |
| | 8H | 26.1 | 26.7 | 26.6 | 27.2 | 27.6 | 26.1 | 26.7 | 26.6 | 27.2 | 27.6 |
| | 12H | 26.2 | 26.7 | 26.7 | 27.2 | 27.7 | 26.2 | 26.7 | 26.7 | 27.2 | 27.7 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 25.8 | 26.3 | 26.2 | 26.8 | 27.3 | 25.8 | 26.3 | 26.2 | 26.8 | 27.3 |
| | 6H | 26.3 | 26.8 | 26.8 | 27.3 | 27.8 | 26.3 | 26.8 | 26.8 | 27.3 | 27.8 |
| | 8H | 26.5 | 26.9 | 27.0 | 27.4 | 27.9 | 26.5 | 26.9 | 27.0 | 27.4 | 27.9 |
| | 12H | 26.6 | 27.0 | 27.1 | 27.5 | 28.0 | 26.6 | 27.0 | 27.1 | 27.5 | 28.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 25.7 | 26.3 | 26.2 | 26.7 | 27.2 | 25.7 | 26.3 | 26.2 | 26.7 | 27.2 |
| | 6H | 26.3 | 26.8 | 26.9 | 27.2 | 27.8 | 26.3 | 26.8 | 26.9 | 27.2 | 27.8 |
| | 8H | 26.6 | 26.9 | 27.1 | 27.4 | 28.0 | 26.6 | 26.9 | 27.1 | 27.4 | 28.0 |

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 2151.088 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.)