

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-935-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.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L18-935-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 met
[MORE] hod 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 | 1408 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 59 |
| 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 | 50473 | 50473 | 50473 |
| 55 | 39939 | 39939 | 39939 |
| 65 | 29855 | 29855 | 29855 |
| 75 | 15545 | 15545 | 15545 |
| 85 | 9419 | 9419 | 9419 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1677.727 |
| 0.5 | 1677.727 |
| 1.0 | 1676.862 |
| 1.5 | 1675.997 |
| 2.0 | 1675.997 |
| 2.5 | 1674.268 |
| 3.0 | 1671.673 |
| 3.5 | 1668.214 |
| 4.0 | 1664.755 |
| 4.5 | 1661.296 |
| 5.0 | 1656.107 |
| 5.5 | 1651.783 |
| 6.0 | 1646.594 |
| 6.5 | 1640.540 |
| 7.0 | 1634.487 |
| 7.5 | 1628.433 |
| 8.0 | 1622.379 |
| 8.5 | 1615.461 |
| 9.0 | 1607.678 |
| 9.5 | 1600.759 |
| 10.0 | 1592.976 |
| 10.5 | 1584.328 |
| 11.0 | 1574.815 |
| 11.5 | 1565.302 |
| 12.0 | 1554.924 |
| 12.5 | 1544.547 |
| 13.0 | 1533.304 |
| 13.5 | 1521.197 |
| 14.0 | 1508.225 |
| 14.5 | 1495.253 |
| 15.0 | 1480.551 |
| 15.5 | 1465.849 |
| 16.0 | 1449.418 |
| 16.5 | 1432.986 |
| 17.0 | 1415.690 |
| 17.5 | 1397.529 |
| 18.0 | 1378.504 |
| 18.5 | 1357.748 |
| 19.0 | 1336.128 |
| 19.5 | 1312.778 |
| 20.0 | 1288.564 |
| 20.5 | 1263.484 |
| 21.0 | 1236.675 |
| 21.5 | 1209.001 |
| 22.0 | 1178.733 |
| 22.5 | 1148.465 |
| 23.0 | 1116.467 |
| 23.5 | 1083.604 |
| 24.0 | 1049.012 |
| 24.5 | 1014.420 |
| 25.0 | 978.962 |
| 25.5 | 941.776 |
| 26.0 | 903.724 |
| 26.5 | 865.673 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 827.880 |
| 27.5 | 789.915 |
| 28.0 | 751.604 |
| 28.5 | 713.466 |
| 29.0 | 674.464 |
| 29.5 | 635.201 |
| 30.0 | 596.285 |
| 30.5 | 557.974 |
| 31.0 | 520.182 |
| 31.5 | 483.687 |
| 32.0 | 448.576 |
| 32.5 | 415.367 |
| 33.0 | 384.580 |
| 33.5 | 356.041 |
| 34.0 | 329.492 |
| 34.5 | 305.191 |
| 35.0 | 283.138 |
| 35.5 | 262.902 |
| 36.0 | 244.568 |
| 36.5 | 228.136 |
| 37.0 | 213.521 |
| 37.5 | 200.462 |
| 38.0 | 188.615 |
| 38.5 | 178.064 |
| 39.0 | 168.810 |
| 39.5 | 160.681 |
| 40.0 | 153.417 |
| 40.5 | 147.104 |
| 41.0 | 141.483 |
| 41.5 | 136.467 |
| 42.0 | 131.970 |
| 42.5 | 127.992 |
| 43.0 | 124.359 |
| 43.5 | 121.160 |
| 44.0 | 118.133 |
| 44.5 | 115.365 |
| 45.0 | 112.771 |
| 45.5 | 110.263 |
| 46.0 | 107.928 |
| 46.5 | 105.593 |
| 47.0 | 103.431 |
| 47.5 | 101.269 |
| 48.0 | 99.107 |
| 48.5 | 97.031 |
| 49.0 | 94.956 |
| 49.5 | 92.880 |
| 50.0 | 90.891 |
| 50.5 | 88.989 |
| 51.0 | 87.000 |
| 51.5 | 85.097 |
| 52.0 | 83.281 |
| 52.5 | 81.378 |
| 53.0 | 79.562 |
| 53.5 | 77.746 |
| 54.0 | 75.930 |
| 54.5 | 74.114 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 72.384 |
| 55.5 | 70.655 |
| 56.0 | 68.925 |
| 56.5 | 67.196 |
| 57.0 | 65.466 |
| 57.5 | 63.823 |
| 58.0 | 62.093 |
| 58.5 | 60.450 |
| 59.0 | 58.807 |
| 59.5 | 57.250 |
| 60.0 | 55.607 |
| 60.5 | 53.964 |
| 61.0 | 52.321 |
| 61.5 | 50.764 |
| 62.0 | 49.121 |
| 62.5 | 47.564 |
| 63.0 | 46.008 |
| 63.5 | 44.451 |
| 64.0 | 42.894 |
| 64.5 | 41.338 |
| 65.0 | 39.868 |
| 65.5 | 38.397 |
| 66.0 | 36.927 |
| 66.5 | 35.371 |
| 67.0 | 33.987 |
| 67.5 | 32.603 |
| 68.0 | 31.133 |
| 68.5 | 29.749 |
| 69.0 | 28.366 |
| 69.5 | 26.982 |
| 70.0 | 25.685 |
| 70.5 | 24.301 |
| 71.0 | 23.004 |
| 71.5 | 21.620 |
| 72.0 | 20.323 |
| 72.5 | 19.026 |
| 73.0 | 17.729 |
| 73.5 | 16.431 |
| 74.0 | 15.221 |
| 74.5 | 13.923 |
| 75.0 | 12.713 |
| 75.5 | 11.588 |
| 76.0 | 10.464 |
| 76.5 | 9.599 |
| 77.0 | 8.821 |
| 77.5 | 8.129 |
| 78.0 | 7.610 |
| 78.5 | 7.178 |
| 79.0 | 6.832 |
| 79.5 | 6.486 |
| 80.0 | 6.054 |
| 80.5 | 5.708 |
| 81.0 | 5.362 |
| 81.5 | 5.016 |
| 82.0 | 4.583 |
| 82.5 | 4.238 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 3.978 |
| 83.5 | 3.632 |
| 84.0 | 3.286 |
| 84.5 | 2.940 |
| 85.0 | 2.594 |
| 85.5 | 2.335 |
| 86.0 | 1.989 |
| 86.5 | 1.730 |
| 87.0 | 1.384 |
| 87.5 | 1.124 |
| 88.0 | 0.865 |
| 88.5 | 0.605 |
| 89.0 | 0.346 |
| 89.5 | 0.259 |
| 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-L18-935-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-L18-935-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
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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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 567.46 | N.A. | 40.30 |
| 0-30 | 1004.55 | N.A. | 71.40 |
| 0-40 | 1196.87 | N.A. | 85.00 |
| 0-60 | 1350.6 | N.A. | 95.90 |
| 0-80 | 1404.78 | N.A. | 99.80 |
| 0-90 | 1407.77 | N.A. | 100.00 |
| 10-90 | 1251.72 | N.A. | 88.90 |
| 20-40 | 629.41 | N.A. | 44.70 |
| 20-50 | 718.26 | N.A. | 51.00 |
| 40-70 | 193.35 | N.A. | 13.70 |
| 60-80 | 54.18 | N.A. | 3.80 |
| 70-80 | 14.56 | N.A. | 1.00 |
| 80-90 | 2.99 | 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 | 1407.77 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 156.06 |
| 10-20 | 411.40 |
| 20-30 | 437.09 |
| 30-40 | 192.32 |
| 40-50 | 88.85 |
| 50-60 | 64.87 |
| 60-70 | 39.62 |
| 70-80 | 14.56 |
| 80-90 | 2.99 |
| 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 | 110 | 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 | 85 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 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 | 72 | 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 | 61 | 57 | 54 | 53 |
| 10 | 71 | 61 | 55 | 52 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 |

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

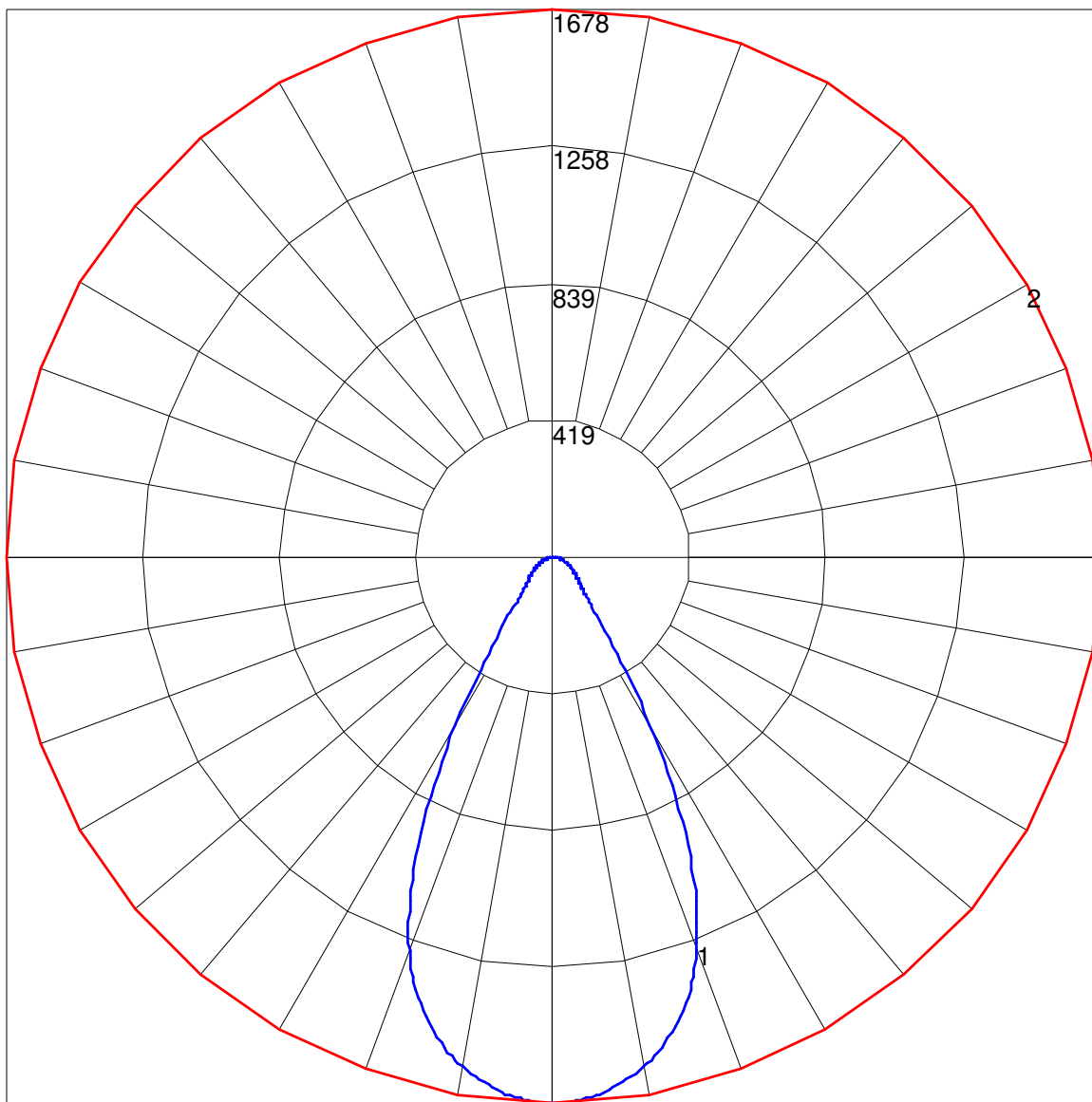
| X=2H | Y=2H | 20.1 | 21.2 | 20.5 | 21.5 | 21.8 | 20.1 | 21.2 | 20.5 | 21.5 | 21.8 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 21.1 | 22.1 | 21.5 | 22.4 | 22.8 | 21.1 | 22.1 | 21.5 | 22.4 | 22.8 |
| | 4H | 21.3 | 22.2 | 21.7 | 22.6 | 23.0 | 21.3 | 22.2 | 21.7 | 22.6 | 23.0 |
| | 6H | 21.3 | 22.2 | 21.8 | 22.6 | 22.9 | 21.3 | 22.2 | 21.8 | 22.6 | 22.9 |
| | 8H | 21.3 | 22.1 | 21.8 | 22.5 | 22.9 | 21.3 | 22.1 | 21.8 | 22.5 | 22.9 |
| | 12H | 21.3 | 22.1 | 21.8 | 22.5 | 22.9 | 21.3 | 22.1 | 21.8 | 22.5 | 22.9 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 20.4 | 21.3 | 20.8 | 21.7 | 22.1 | 20.4 | 21.3 | 20.8 | 21.7 | 22.1 |
| | 3H | 21.6 | 22.3 | 22.0 | 22.8 | 23.2 | 21.6 | 22.3 | 22.0 | 22.8 | 23.2 |
| | 4H | 21.8 | 22.5 | 22.3 | 22.9 | 23.4 | 21.8 | 22.5 | 22.3 | 22.9 | 23.4 |
| | 6H | 21.9 | 22.5 | 22.4 | 22.9 | 23.4 | 21.9 | 22.5 | 22.4 | 22.9 | 23.4 |
| | 8H | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 |
| | 12H | 21.9 | 22.4 | 22.4 | 22.9 | 23.3 | 21.9 | 22.4 | 22.4 | 22.9 | 23.3 |
| 8H | 4H | 21.8 | 22.4 | 22.3 | 22.8 | 23.3 | 21.8 | 22.4 | 22.3 | 22.8 | 23.3 |
| | 6H | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 |
| | 8H | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 |
| | 12H | 22.0 | 22.3 | 22.5 | 22.8 | 23.4 | 22.0 | 22.3 | 22.5 | 22.8 | 23.4 |
| 12H | 4H | 21.8 | 22.2 | 22.3 | 22.7 | 23.2 | 21.8 | 22.2 | 22.3 | 22.7 | 23.2 |
| | 6H | 21.9 | 22.3 | 22.5 | 22.8 | 23.3 | 21.9 | 22.3 | 22.5 | 22.8 | 23.3 |
| | 8H | 22.0 | 22.3 | 22.5 | 22.8 | 23.4 | 22.0 | 22.3 | 22.5 | 22.8 | 23.4 |

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1677.727 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.)