

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-935-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-L14-935-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 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 | 1099 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 64 |
| Total Luminaire Watts | 17.3 |
| 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 | 39410 | 39410 | 39410 |
| 55 | 31185 | 31185 | 31185 |
| 65 | 23312 | 23312 | 23312 |
| 75 | 12137 | 12137 | 12137 |
| 85 | 7357 | 7357 | 7357 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1310.006 |
| 0.5 | 1310.006 |
| 1.0 | 1309.331 |
| 1.5 | 1308.656 |
| 2.0 | 1308.656 |
| 2.5 | 1307.305 |
| 3.0 | 1305.280 |
| 3.5 | 1302.579 |
| 4.0 | 1299.877 |
| 4.5 | 1297.176 |
| 5.0 | 1293.125 |
| 5.5 | 1289.749 |
| 6.0 | 1285.697 |
| 6.5 | 1280.970 |
| 7.0 | 1276.243 |
| 7.5 | 1271.517 |
| 8.0 | 1266.790 |
| 8.5 | 1261.388 |
| 9.0 | 1255.310 |
| 9.5 | 1249.908 |
| 10.0 | 1243.831 |
| 10.5 | 1237.078 |
| 11.0 | 1229.650 |
| 11.5 | 1222.222 |
| 12.0 | 1214.119 |
| 12.5 | 1206.016 |
| 13.0 | 1197.238 |
| 13.5 | 1187.784 |
| 14.0 | 1177.655 |
| 14.5 | 1167.526 |
| 15.0 | 1156.047 |
| 15.5 | 1144.567 |
| 16.0 | 1131.737 |
| 16.5 | 1118.908 |
| 17.0 | 1105.402 |
| 17.5 | 1091.222 |
| 18.0 | 1076.366 |
| 18.5 | 1060.160 |
| 19.0 | 1043.278 |
| 19.5 | 1025.046 |
| 20.0 | 1006.139 |
| 20.5 | 986.556 |
| 21.0 | 965.623 |
| 21.5 | 944.015 |
| 22.0 | 920.381 |
| 22.5 | 896.747 |
| 23.0 | 871.762 |
| 23.5 | 846.102 |
| 24.0 | 819.092 |
| 24.5 | 792.081 |
| 25.0 | 764.395 |
| 25.5 | 735.359 |
| 26.0 | 705.648 |
| 26.5 | 675.936 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 646.427 |
| 27.5 | 616.783 |
| 28.0 | 586.869 |
| 28.5 | 557.090 |
| 29.0 | 526.636 |
| 29.5 | 495.979 |
| 30.0 | 465.592 |
| 30.5 | 435.678 |
| 31.0 | 406.170 |
| 31.5 | 377.673 |
| 32.0 | 350.258 |
| 32.5 | 324.328 |
| 33.0 | 300.289 |
| 33.5 | 278.005 |
| 34.0 | 257.274 |
| 34.5 | 238.300 |
| 35.0 | 221.080 |
| 35.5 | 205.279 |
| 36.0 | 190.964 |
| 36.5 | 178.134 |
| 37.0 | 166.722 |
| 37.5 | 156.526 |
| 38.0 | 147.274 |
| 38.5 | 139.036 |
| 39.0 | 131.811 |
| 39.5 | 125.463 |
| 40.0 | 119.791 |
| 40.5 | 114.862 |
| 41.0 | 110.473 |
| 41.5 | 106.556 |
| 42.0 | 103.045 |
| 42.5 | 99.939 |
| 43.0 | 97.103 |
| 43.5 | 94.604 |
| 44.0 | 92.241 |
| 44.5 | 90.080 |
| 45.0 | 88.054 |
| 45.5 | 86.096 |
| 46.0 | 84.273 |
| 46.5 | 82.449 |
| 47.0 | 80.761 |
| 47.5 | 79.073 |
| 48.0 | 77.385 |
| 48.5 | 75.764 |
| 49.0 | 74.144 |
| 49.5 | 72.523 |
| 50.0 | 70.970 |
| 50.5 | 69.484 |
| 51.0 | 67.931 |
| 51.5 | 66.446 |
| 52.0 | 65.028 |
| 52.5 | 63.542 |
| 53.0 | 62.124 |
| 53.5 | 60.706 |
| 54.0 | 59.288 |
| 54.5 | 57.870 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 56.519 |
| 55.5 | 55.169 |
| 56.0 | 53.818 |
| 56.5 | 52.468 |
| 57.0 | 51.117 |
| 57.5 | 49.834 |
| 58.0 | 48.484 |
| 58.5 | 47.201 |
| 59.0 | 45.918 |
| 59.5 | 44.702 |
| 60.0 | 43.419 |
| 60.5 | 42.136 |
| 61.0 | 40.853 |
| 61.5 | 39.638 |
| 62.0 | 38.355 |
| 62.5 | 37.139 |
| 63.0 | 35.924 |
| 63.5 | 34.708 |
| 64.0 | 33.493 |
| 64.5 | 32.277 |
| 65.0 | 31.130 |
| 65.5 | 29.982 |
| 66.0 | 28.834 |
| 66.5 | 27.618 |
| 67.0 | 26.538 |
| 67.5 | 25.457 |
| 68.0 | 24.309 |
| 68.5 | 23.229 |
| 69.0 | 22.149 |
| 69.5 | 21.068 |
| 70.0 | 20.055 |
| 70.5 | 18.975 |
| 71.0 | 17.962 |
| 71.5 | 16.882 |
| 72.0 | 15.869 |
| 72.5 | 14.856 |
| 73.0 | 13.843 |
| 73.5 | 12.830 |
| 74.0 | 11.885 |
| 74.5 | 10.872 |
| 75.0 | 9.926 |
| 75.5 | 9.048 |
| 76.0 | 8.171 |
| 76.5 | 7.495 |
| 77.0 | 6.888 |
| 77.5 | 6.347 |
| 78.0 | 5.942 |
| 78.5 | 5.605 |
| 79.0 | 5.335 |
| 79.5 | 5.064 |
| 80.0 | 4.727 |
| 80.5 | 4.457 |
| 81.0 | 4.187 |
| 81.5 | 3.917 |
| 82.0 | 3.579 |
| 82.5 | 3.309 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 3.106 |
| 83.5 | 2.836 |
| 84.0 | 2.566 |
| 84.5 | 2.296 |
| 85.0 | 2.026 |
| 85.5 | 1.823 |
| 86.0 | 1.553 |
| 86.5 | 1.351 |
| 87.0 | 1.080 |
| 87.5 | 0.878 |
| 88.0 | 0.675 |
| 88.5 | 0.473 |
| 89.0 | 0.270 |
| 89.5 | 0.203 |
| 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-L14-935-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-L14-935-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 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 443.08 | N.A. | 40.30 |
| 0-30 | 784.38 | N.A. | 71.40 |
| 0-40 | 934.54 | N.A. | 85.00 |
| 0-60 | 1054.58 | N.A. | 95.90 |
| 0-80 | 1096.88 | N.A. | 99.80 |
| 0-90 | 1099.22 | N.A. | 100.00 |
| 10-90 | 977.37 | N.A. | 88.90 |
| 20-40 | 491.46 | N.A. | 44.70 |
| 20-50 | 560.83 | N.A. | 51.00 |
| 40-70 | 150.97 | N.A. | 13.70 |
| 60-80 | 42.31 | N.A. | 3.80 |
| 70-80 | 11.37 | N.A. | 1.00 |
| 80-90 | 2.34 | 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 | 1099.22 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 121.85 |
| 10-20 | 321.23 |
| 20-30 | 341.29 |
| 30-40 | 150.17 |
| 40-50 | 69.38 |
| 50-60 | 50.66 |
| 60-70 | 30.94 |
| 70-80 | 11.37 |
| 80-90 | 2.34 |
| 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 | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 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 | 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 |

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

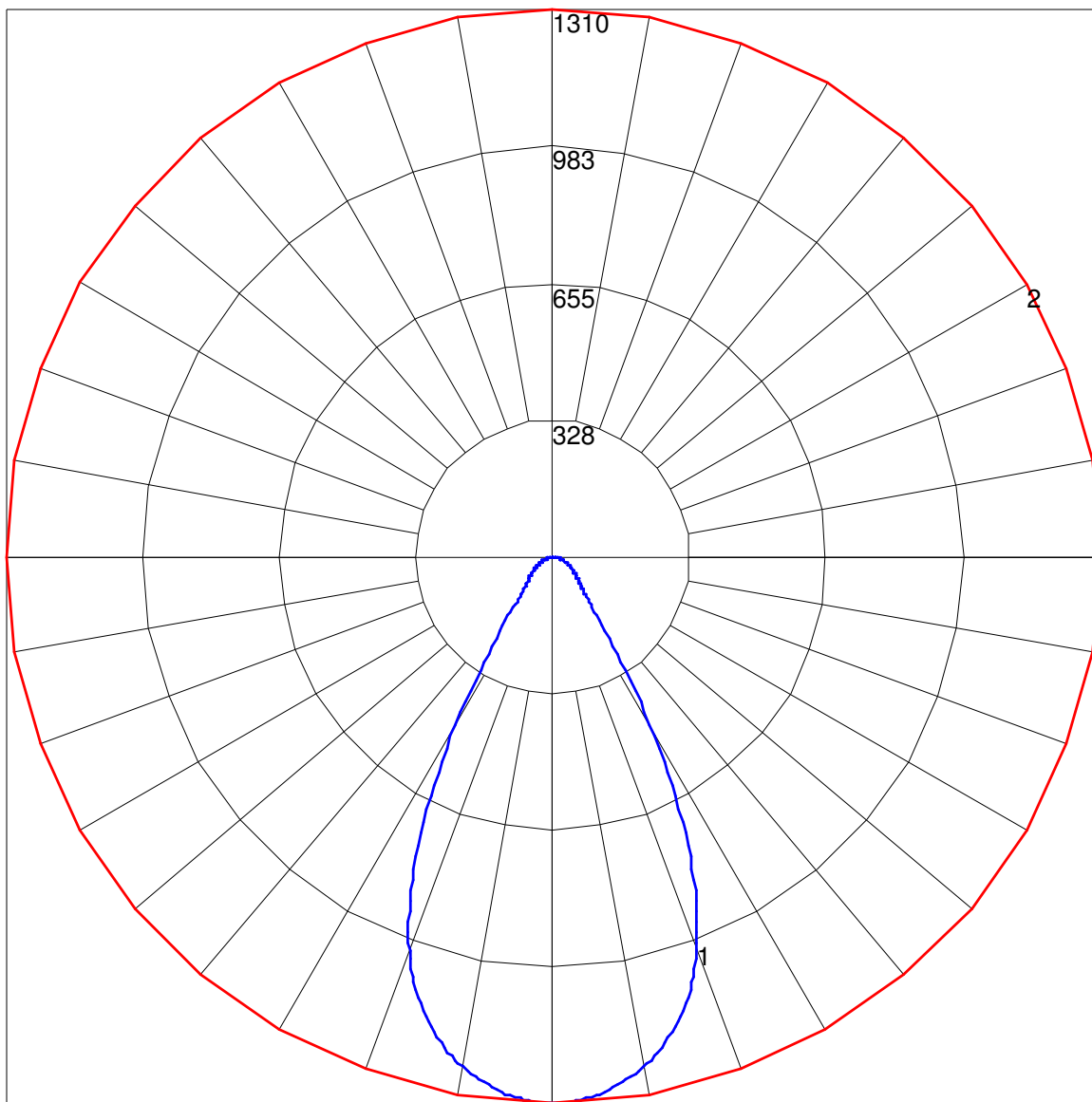
| X=2H | Y=2H | 19.3 | 20.4 | 19.7 | 20.7 | 21.0 | 19.3 | 20.4 | 19.7 | 20.7 | 21.0 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 20.3 | 21.3 | 20.7 | 21.6 | 22.0 | 20.3 | 21.3 | 20.7 | 21.6 | 22.0 |
| | 4H | 20.5 | 21.4 | 20.9 | 21.8 | 22.2 | 20.5 | 21.4 | 20.9 | 21.8 | 22.2 |
| | 6H | 20.6 | 21.4 | 21.0 | 21.8 | 22.2 | 20.6 | 21.4 | 21.0 | 21.8 | 22.2 |
| | 8H | 20.6 | 21.3 | 21.0 | 21.7 | 22.1 | 20.6 | 21.3 | 21.0 | 21.7 | 22.1 |
| | 12H | 20.5 | 21.3 | 21.0 | 21.7 | 22.1 | 20.5 | 21.3 | 21.0 | 21.7 | 22.1 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.6 | 20.5 | 20.0 | 20.9 | 21.3 | 19.6 | 20.5 | 20.0 | 20.9 | 21.3 |
| | 3H | 20.8 | 21.5 | 21.2 | 22.0 | 22.4 | 20.8 | 21.5 | 21.2 | 22.0 | 22.4 |
| | 4H | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 |
| | 6H | 21.1 | 21.7 | 21.6 | 22.1 | 22.6 | 21.1 | 21.7 | 21.6 | 22.1 | 22.6 |
| | 8H | 21.1 | 21.6 | 21.6 | 22.1 | 22.6 | 21.1 | 21.6 | 21.6 | 22.1 | 22.6 |
| | 12H | 21.1 | 21.6 | 21.6 | 22.1 | 22.5 | 21.1 | 21.6 | 21.6 | 22.1 | 22.5 |
| 8H | 4H | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 |
| | 6H | 21.2 | 21.6 | 21.7 | 22.1 | 22.6 | 21.2 | 21.6 | 21.7 | 22.1 | 22.6 |
| | 8H | 21.2 | 21.6 | 21.7 | 22.1 | 22.6 | 21.2 | 21.6 | 21.7 | 22.1 | 22.6 |
| | 12H | 21.2 | 21.6 | 21.7 | 22.0 | 22.6 | 21.2 | 21.6 | 21.7 | 22.0 | 22.6 |
| 12H | 4H | 21.0 | 21.5 | 21.5 | 21.9 | 22.4 | 21.0 | 21.5 | 21.5 | 21.9 | 22.4 |
| | 6H | 21.1 | 21.5 | 21.7 | 22.0 | 22.5 | 21.1 | 21.5 | 21.7 | 22.0 | 22.5 |
| | 8H | 21.2 | 21.5 | 21.7 | 22.0 | 22.6 | 21.2 | 21.5 | 21.7 | 22.0 | 22.6 |

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1310.006 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.)