

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-17W-4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15006535.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 17 NOV, 2023

[TEST DATE] 10/18/2023

[MANUFAC] H E Williams Inc

[LUMCAT] 6RCD-LS-9CS-SS-DIM-UNV-17W-4000k

[LUMINAIRE] Round housing with semi-specular reflector and frosted lens

[LAMP] White LEDs

[BALLAST] LED Driver

[OTHER] 24.7 C, 119.991 V, 0.1494 A, 17.765 W, 0.99098 PF, 59.971 Hz

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

[MORE] hod of absolute photometry.

[OTHER] The reported results were measured in a facility that meets th

[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de

[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1457 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 105 |
| Total Luminaire Watts | 13.91 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.94 |
| Spacing Criterion (90-270) | 0.94 |
| Spacing Criterion (Diagonal) | 1.00 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 ft (Diameter) |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 23216 | 23216 | 23216 |
| 55 | 10869 | 10869 | 10869 |
| 65 | 1425 | 1425 | 1425 |
| 75 | 287 | 287 | 287 |
| 85 | 237 | 237 | 237 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1187.953 |
| 0.5 | 1187.953 |
| 1.0 | 1187.200 |
| 1.5 | 1186.446 |
| 2.0 | 1184.186 |
| 2.5 | 1182.680 |
| 3.0 | 1181.173 |
| 3.5 | 1178.160 |
| 4.0 | 1175.900 |
| 4.5 | 1172.134 |
| 5.0 | 1169.120 |
| 5.5 | 1165.354 |
| 6.0 | 1160.834 |
| 6.5 | 1156.314 |
| 7.0 | 1151.794 |
| 7.5 | 1146.521 |
| 8.0 | 1141.248 |
| 8.5 | 1135.975 |
| 9.0 | 1130.702 |
| 9.5 | 1124.676 |
| 10.0 | 1118.649 |
| 10.5 | 1111.870 |
| 11.0 | 1105.090 |
| 11.5 | 1098.310 |
| 12.0 | 1090.777 |
| 12.5 | 1082.491 |
| 13.0 | 1074.958 |
| 13.5 | 1066.672 |
| 14.0 | 1057.632 |
| 14.5 | 1048.592 |
| 15.0 | 1038.800 |
| 15.5 | 1029.007 |
| 16.0 | 1019.214 |
| 16.5 | 1008.668 |
| 17.0 | 998.121 |
| 17.5 | 986.822 |
| 18.0 | 975.522 |
| 18.5 | 963.470 |
| 19.0 | 951.417 |
| 19.5 | 940.117 |
| 20.0 | 927.311 |
| 20.5 | 914.505 |
| 21.0 | 902.452 |
| 21.5 | 890.400 |
| 22.0 | 878.347 |
| 22.5 | 865.541 |
| 23.0 | 853.488 |
| 23.5 | 842.188 |
| 24.0 | 830.136 |
| 24.5 | 817.330 |
| 25.0 | 804.524 |
| 25.5 | 791.717 |
| 26.0 | 778.911 |
| 26.5 | 766.105 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 752.998 |
| 27.5 | 739.664 |
| 28.0 | 726.331 |
| 28.5 | 712.922 |
| 29.0 | 699.589 |
| 29.5 | 686.482 |
| 30.0 | 673.374 |
| 30.5 | 660.041 |
| 31.0 | 646.632 |
| 31.5 | 633.374 |
| 32.0 | 619.739 |
| 32.5 | 606.556 |
| 33.0 | 593.449 |
| 33.5 | 580.417 |
| 34.0 | 566.707 |
| 34.5 | 553.600 |
| 35.0 | 540.341 |
| 35.5 | 527.234 |
| 36.0 | 513.976 |
| 36.5 | 500.944 |
| 37.0 | 487.837 |
| 37.5 | 474.880 |
| 38.0 | 461.998 |
| 38.5 | 450.021 |
| 39.0 | 438.420 |
| 39.5 | 426.292 |
| 40.0 | 414.089 |
| 40.5 | 401.885 |
| 41.0 | 389.832 |
| 41.5 | 378.006 |
| 42.0 | 366.329 |
| 42.5 | 355.030 |
| 43.0 | 343.806 |
| 43.5 | 332.506 |
| 44.0 | 321.433 |
| 44.5 | 310.510 |
| 45.0 | 299.738 |
| 45.5 | 289.116 |
| 46.0 | 278.721 |
| 46.5 | 268.551 |
| 47.0 | 258.382 |
| 47.5 | 248.287 |
| 48.0 | 238.495 |
| 48.5 | 228.626 |
| 49.0 | 218.909 |
| 49.5 | 209.417 |
| 50.0 | 200.076 |
| 50.5 | 190.886 |
| 51.0 | 181.771 |
| 51.5 | 172.732 |
| 52.0 | 163.843 |
| 52.5 | 155.104 |
| 53.0 | 146.592 |
| 53.5 | 138.230 |
| 54.0 | 130.019 |
| 54.5 | 121.808 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 55.0 | 113.824 |
| 55.5 | 106.140 |
| 56.0 | 98.607 |
| 56.5 | 91.300 |
| 57.0 | 84.144 |
| 57.5 | 77.213 |
| 58.0 | 70.509 |
| 58.5 | 64.181 |
| 59.0 | 58.079 |
| 59.5 | 52.354 |
| 60.0 | 46.931 |
| 60.5 | 41.808 |
| 61.0 | 37.062 |
| 61.5 | 32.693 |
| 62.0 | 28.625 |
| 62.5 | 24.934 |
| 63.0 | 21.544 |
| 63.5 | 18.456 |
| 64.0 | 15.669 |
| 64.5 | 13.183 |
| 65.0 | 10.998 |
| 65.5 | 9.115 |
| 66.0 | 7.458 |
| 66.5 | 6.026 |
| 67.0 | 4.896 |
| 67.5 | 3.766 |
| 68.0 | 2.863 |
| 68.5 | 2.335 |
| 69.0 | 2.260 |
| 69.5 | 2.185 |
| 70.0 | 2.109 |
| 70.5 | 1.959 |
| 71.0 | 1.883 |
| 71.5 | 1.808 |
| 72.0 | 1.733 |
| 72.5 | 1.733 |
| 73.0 | 1.657 |
| 73.5 | 1.582 |
| 74.0 | 1.507 |
| 74.5 | 1.431 |
| 75.0 | 1.356 |
| 75.5 | 1.281 |
| 76.0 | 1.281 |
| 76.5 | 1.205 |
| 77.0 | 1.130 |
| 77.5 | 1.055 |
| 78.0 | 1.055 |
| 78.5 | 0.979 |
| 79.0 | 0.904 |
| 79.5 | 0.904 |
| 80.0 | 0.829 |
| 80.5 | 0.753 |
| 81.0 | 0.753 |
| 81.5 | 0.678 |
| 82.0 | 0.603 |
| 82.5 | 0.603 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.527 |
| 83.5 | 0.527 |
| 84.0 | 0.452 |
| 84.5 | 0.452 |
| 85.0 | 0.377 |
| 85.5 | 0.301 |
| 86.0 | 0.301 |
| 86.5 | 0.226 |
| 87.0 | 0.226 |
| 87.5 | 0.151 |
| 88.0 | 0.151 |
| 88.5 | 0.075 |
| 89.0 | 0.075 |
| 89.5 | 0.000 |
| 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 : 6RCD-LS-9CS-SS-DIM-UNV-17W-4000K_.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 |

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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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 399.97 | N.A. | 27.50 |
| 0-30 | 767.86 | N.A. | 52.70 |
| 0-40 | 1104.51 | N.A. | 75.80 |
| 0-60 | 1439.77 | N.A. | 98.80 |
| 0-80 | 1456.35 | N.A. | 100.00 |
| 0-90 | 1456.76 | N.A. | 100.00 |
| 10-90 | 1346.82 | N.A. | 92.50 |
| 20-40 | 704.54 | N.A. | 48.40 |
| 20-50 | 936.20 | N.A. | 64.30 |
| 40-70 | 350.36 | N.A. | 24.10 |
| 60-80 | 16.58 | N.A. | 1.10 |
| 70-80 | 1.47 | N.A. | 0.10 |
| 80-90 | 0.42 | 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 | 1456.76 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 109.95 |
| 10-20 | 290.03 |
| 20-30 | 367.89 |
| 30-40 | 336.65 |
| 40-50 | 231.66 |
| 50-60 | 103.59 |
| 60-70 | 15.11 |
| 70-80 | 1.47 |
| 80-90 | 0.42 |
| 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 | 95 | 95 | 95 | 95 | 92 | 92 | 92 | 92 | 88 | 88 | 88 | 85 | 85 | 85 | 81 | 81 | 81 | 79 |
| 1 | 90 | 87 | 85 | 83 | 88 | 85 | 83 | 81 | 82 | 80 | 79 | 79 | 78 | 77 | 76 | 75 | 74 | 73 |
| 2 | 84 | 80 | 76 | 73 | 82 | 78 | 75 | 72 | 76 | 73 | 70 | 73 | 71 | 69 | 71 | 69 | 67 | 66 |
| 3 | 79 | 73 | 68 | 65 | 77 | 72 | 68 | 64 | 70 | 66 | 63 | 68 | 65 | 62 | 66 | 63 | 61 | 60 |
| 4 | 74 | 67 | 62 | 58 | 73 | 66 | 61 | 58 | 64 | 60 | 57 | 63 | 59 | 56 | 61 | 58 | 56 | 54 |
| 5 | 69 | 62 | 56 | 52 | 68 | 61 | 56 | 52 | 59 | 55 | 52 | 58 | 54 | 51 | 57 | 53 | 51 | 49 |
| 6 | 65 | 57 | 52 | 48 | 64 | 56 | 51 | 47 | 55 | 51 | 47 | 54 | 50 | 47 | 53 | 49 | 46 | 45 |
| 7 | 61 | 53 | 47 | 44 | 60 | 52 | 47 | 43 | 51 | 47 | 43 | 50 | 46 | 43 | 49 | 46 | 43 | 41 |
| 8 | 58 | 49 | 44 | 40 | 57 | 49 | 44 | 40 | 48 | 43 | 40 | 47 | 43 | 40 | 46 | 42 | 39 | 38 |
| 9 | 55 | 46 | 41 | 37 | 54 | 45 | 40 | 37 | 45 | 40 | 37 | 44 | 40 | 37 | 43 | 39 | 36 | 35 |
| 10 | 52 | 43 | 38 | 34 | 51 | 43 | 38 | 34 | 42 | 37 | 34 | 41 | 37 | 34 | 41 | 37 | 34 | 33 |

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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

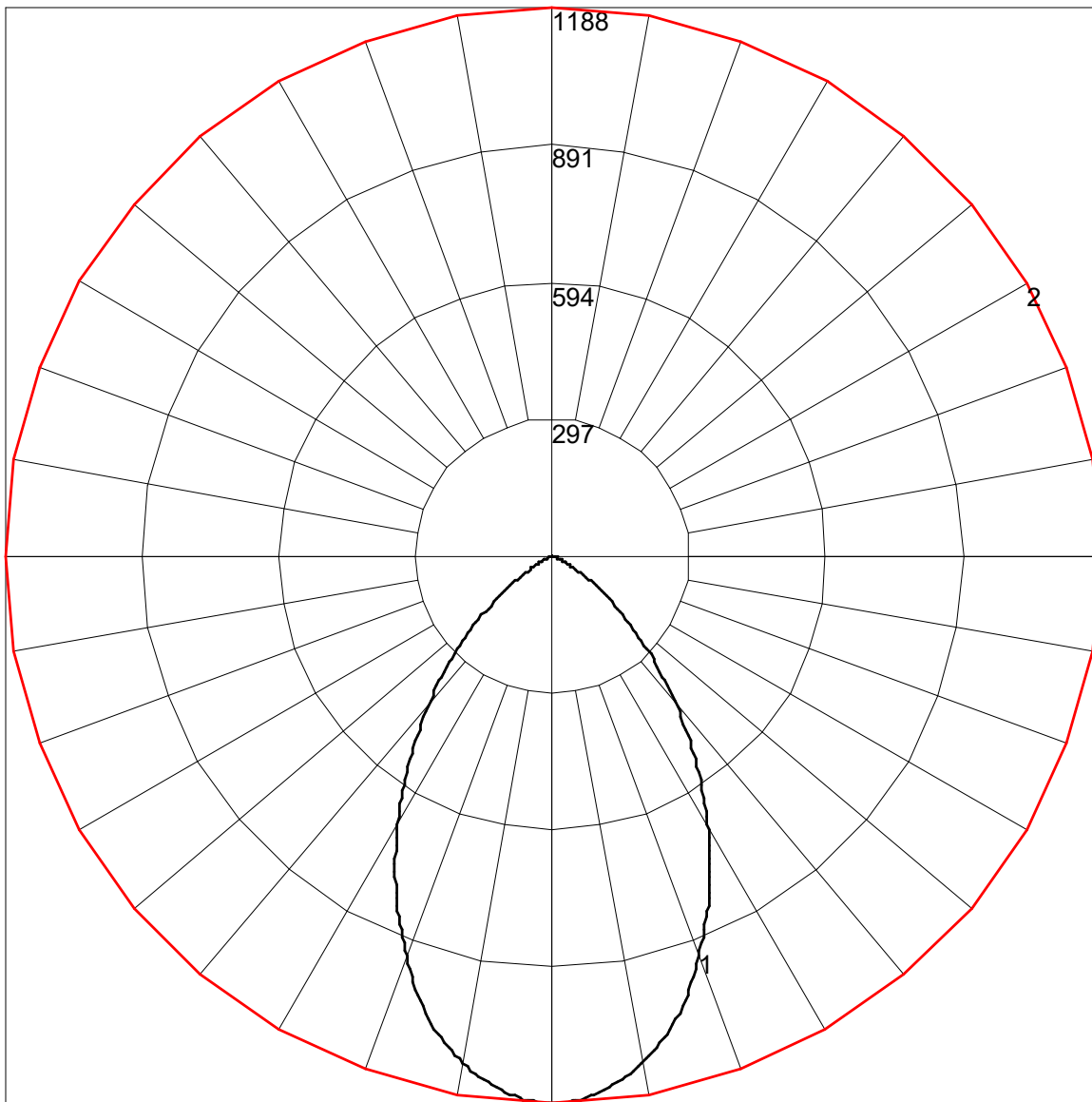
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 15.7 | 16.9 | 16.1 | 17.2 | 17.5 | 15.7 | 16.9 | 16.1 | 17.2 | 17.5 |
| | 3H | 15.6 | 16.6 | 15.9 | 16.9 | 17.3 | 15.6 | 16.6 | 15.9 | 16.9 | 17.3 |
| | 4H | 15.5 | 16.5 | 15.9 | 16.8 | 17.2 | 15.5 | 16.5 | 15.9 | 16.8 | 17.2 |
| | 6H | 15.4 | 16.3 | 15.8 | 16.7 | 17.1 | 15.4 | 16.3 | 15.8 | 16.7 | 17.1 |
| | 8H | 15.4 | 16.2 | 15.8 | 16.6 | 17.0 | 15.4 | 16.2 | 15.8 | 16.6 | 17.0 |
| | 12H | 15.3 | 16.1 | 15.7 | 16.5 | 16.9 | 15.3 | 16.1 | 15.7 | 16.5 | 16.9 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 15.5 | 16.5 | 15.9 | 16.8 | 17.2 | 15.5 | 16.5 | 15.9 | 16.8 | 17.2 |
| | 3H | 15.4 | 16.1 | 15.8 | 16.6 | 17.0 | 15.4 | 16.1 | 15.8 | 16.6 | 17.0 |
| | 4H | 15.3 | 16.0 | 15.7 | 16.4 | 16.8 | 15.3 | 16.0 | 15.7 | 16.4 | 16.8 |
| | 6H | 15.2 | 15.8 | 15.7 | 16.2 | 16.7 | 15.2 | 15.8 | 15.7 | 16.2 | 16.7 |
| | 8H | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 |
| | 12H | 15.1 | 15.5 | 15.5 | 16.0 | 16.5 | 15.1 | 15.5 | 15.5 | 16.0 | 16.5 |
| 8H | 4H | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 |
| | 6H | 15.0 | 15.5 | 15.5 | 16.0 | 16.4 | 15.0 | 15.5 | 15.5 | 16.0 | 16.4 |
| | 8H | 14.9 | 15.3 | 15.5 | 15.9 | 16.4 | 14.9 | 15.3 | 15.5 | 15.9 | 16.4 |
| | 12H | 14.9 | 15.2 | 15.4 | 15.7 | 16.3 | 14.9 | 15.2 | 15.4 | 15.7 | 16.3 |
| 12H | 4H | 15.1 | 15.5 | 15.5 | 16.0 | 16.5 | 15.1 | 15.5 | 15.5 | 16.0 | 16.5 |
| | 6H | 15.0 | 15.3 | 15.5 | 15.8 | 16.4 | 15.0 | 15.3 | 15.5 | 15.8 | 16.4 |
| | 8H | 14.9 | 15.2 | 15.4 | 15.7 | 16.3 | 14.9 | 15.2 | 15.4 | 15.7 | 16.3 |

Maximum UGR = 17.5

POLAR GRAPH



Maximum Candela = 1187.953 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)