



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L40-835-XXX-DIM-UNV-OM-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.22

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CR-TL-L40-835-xxx-DIM-UNV-OM-WH-xx

[LUMINAIRE] 8" DIA. SURFACE CYLINDER

[LAMP] One white LED

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3574 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 98 |
| Total Luminaire Watts | 36.3881 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.64 |
| Spacing Criterion (90-270) | 0.64 |
| Spacing Criterion (Diagonal) | 0.72 |
| 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 |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6452 | 6452 | 6452 |
| 55 | 2379 | 2379 | 2379 |
| 65 | 946 | 946 | 946 |
| 75 | 527 | 527 | 527 |
| 85 | 503 | 503 | 503 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 6651.414 |
| 0.5 | 6670.993 |
| 1.0 | 6723.499 |
| 1.5 | 6809.823 |
| 2.0 | 6886.358 |
| 2.5 | 6961.113 |
| 3.0 | 7032.308 |
| 3.5 | 7088.375 |
| 4.0 | 7128.422 |
| 4.5 | 7116.853 |
| 5.0 | 7056.337 |
| 5.5 | 6970.903 |
| 6.0 | 6854.320 |
| 6.5 | 6714.600 |
| 7.0 | 6558.860 |
| 7.5 | 6393.331 |
| 8.0 | 6210.894 |
| 8.5 | 6014.217 |
| 9.0 | 5809.530 |
| 9.5 | 5611.074 |
| 10.0 | 5427.746 |
| 10.5 | 5255.988 |
| 11.0 | 5092.239 |
| 11.5 | 4941.839 |
| 12.0 | 4808.348 |
| 12.5 | 4688.206 |
| 13.0 | 4576.073 |
| 13.5 | 4470.170 |
| 14.0 | 4371.387 |
| 14.5 | 4280.613 |
| 15.0 | 4190.729 |
| 15.5 | 4106.185 |
| 16.0 | 4025.200 |
| 16.5 | 3946.885 |
| 17.0 | 3870.350 |
| 17.5 | 3792.926 |
| 18.0 | 3715.501 |
| 18.5 | 3636.296 |
| 19.0 | 3557.091 |
| 19.5 | 3477.887 |
| 20.0 | 3399.572 |
| 20.5 | 3321.257 |
| 21.0 | 3240.273 |
| 21.5 | 3155.728 |
| 22.0 | 3070.294 |
| 22.5 | 2984.860 |
| 23.0 | 2898.536 |
| 23.5 | 2810.432 |
| 24.0 | 2722.327 |
| 24.5 | 2635.113 |
| 25.0 | 2550.569 |
| 25.5 | 2466.025 |
| 26.0 | 2382.370 |
| 26.5 | 2302.276 |

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CANDELA TABULATION - (Cont.)

| | |
|------|----------|
| 27.0 | 2226.631 |
| 27.5 | 2156.325 |
| 28.0 | 2088.690 |
| 28.5 | 2025.504 |
| 29.0 | 1966.768 |
| 29.5 | 1905.362 |
| 30.0 | 1834.167 |
| 30.5 | 1753.182 |
| 31.0 | 1666.858 |
| 31.5 | 1574.304 |
| 32.0 | 1470.181 |
| 32.5 | 1348.260 |
| 33.0 | 1215.658 |
| 33.5 | 1079.498 |
| 34.0 | 944.227 |
| 34.5 | 812.782 |
| 35.0 | 691.306 |
| 35.5 | 584.424 |
| 36.0 | 497.833 |
| 36.5 | 425.302 |
| 37.0 | 362.829 |
| 37.5 | 312.280 |
| 38.0 | 276.237 |
| 38.5 | 254.256 |
| 39.0 | 237.347 |
| 39.5 | 220.616 |
| 40.0 | 203.351 |
| 40.5 | 186.709 |
| 41.0 | 170.335 |
| 41.5 | 154.494 |
| 42.0 | 139.810 |
| 42.5 | 126.016 |
| 43.0 | 113.289 |
| 43.5 | 103.144 |
| 44.0 | 95.135 |
| 44.5 | 88.549 |
| 45.0 | 83.298 |
| 45.5 | 78.582 |
| 46.0 | 74.577 |
| 46.5 | 70.839 |
| 47.0 | 67.368 |
| 47.5 | 64.165 |
| 48.0 | 60.872 |
| 48.5 | 57.846 |
| 49.0 | 54.642 |
| 49.5 | 51.350 |
| 50.0 | 48.146 |
| 50.5 | 45.209 |
| 51.0 | 42.539 |
| 51.5 | 39.691 |
| 52.0 | 37.111 |
| 52.5 | 34.708 |
| 53.0 | 32.305 |
| 53.5 | 30.347 |
| 54.0 | 28.478 |
| 54.5 | 26.431 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 24.918 |
| 55.5 | 23.316 |
| 56.0 | 21.893 |
| 56.5 | 20.647 |
| 57.0 | 19.223 |
| 57.5 | 18.155 |
| 58.0 | 17.176 |
| 58.5 | 16.019 |
| 59.0 | 15.040 |
| 59.5 | 14.150 |
| 60.0 | 13.171 |
| 60.5 | 12.548 |
| 61.0 | 11.836 |
| 61.5 | 11.124 |
| 62.0 | 10.412 |
| 62.5 | 9.878 |
| 63.0 | 9.255 |
| 63.5 | 8.810 |
| 64.0 | 8.187 |
| 64.5 | 7.920 |
| 65.0 | 7.298 |
| 65.5 | 6.942 |
| 66.0 | 6.675 |
| 66.5 | 6.230 |
| 67.0 | 5.874 |
| 67.5 | 5.429 |
| 68.0 | 5.340 |
| 68.5 | 4.984 |
| 69.0 | 4.628 |
| 69.5 | 4.361 |
| 70.0 | 4.272 |
| 70.5 | 3.916 |
| 71.0 | 3.649 |
| 71.5 | 3.827 |
| 72.0 | 3.382 |
| 72.5 | 3.204 |
| 73.0 | 2.937 |
| 73.5 | 2.937 |
| 74.0 | 2.670 |
| 74.5 | 2.403 |
| 75.0 | 2.492 |
| 75.5 | 2.225 |
| 76.0 | 2.047 |
| 76.5 | 1.958 |
| 77.0 | 1.958 |
| 77.5 | 1.780 |
| 78.0 | 1.513 |
| 78.5 | 1.602 |
| 79.0 | 1.602 |
| 79.5 | 1.602 |
| 80.0 | 1.335 |
| 80.5 | 1.246 |
| 81.0 | 1.157 |
| 81.5 | 1.157 |
| 82.0 | 1.068 |
| 82.5 | 0.979 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.890 |
| 83.5 | 0.890 |
| 84.0 | 1.068 |
| 84.5 | 0.801 |
| 85.0 | 0.801 |
| 85.5 | 0.801 |
| 86.0 | 0.712 |
| 86.5 | 0.712 |
| 87.0 | 0.712 |
| 87.5 | 0.623 |
| 88.0 | 0.534 |
| 88.5 | 0.623 |
| 89.0 | 0.623 |
| 89.5 | 0.445 |
| 90.0 | 0.534 |
| 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 : 8CR-TL-L40-835-XXX-DIM-UNV-OM-WH-XX_.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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PHOTOMETRIC FILENAME : 8CR-TL-L40-835-XXX-DIM-UNV-OM-WH-XX_.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 |

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 | 1793.19 | N.A. | 50.20 |
| 0-30 | 2962.54 | N.A. | 82.90 |
| 0-40 | 3464.55 | N.A. | 96.90 |
| 0-60 | 3562.94 | N.A. | 99.70 |
| 0-80 | 3573.3 | N.A. | 100.00 |
| 0-90 | 3574.22 | N.A. | 100.00 |
| 10-90 | 2959.56 | N.A. | 82.80 |
| 20-40 | 1671.35 | N.A. | 46.80 |
| 20-50 | 1745.92 | N.A. | 48.80 |
| 40-70 | 106.09 | N.A. | 3.00 |
| 60-80 | 10.36 | N.A. | 0.30 |
| 70-80 | 2.66 | N.A. | 0.10 |
| 80-90 | 0.91 | N.A. | 0.00 |
| 90-110 | 0.01 | N.A. | 0.00 |
| 90-120 | 0.01 | N.A. | 0.00 |
| 90-130 | 0.01 | N.A. | 0.00 |
| 90-150 | 0.01 | N.A. | 0.00 |
| 90-180 | 0.01 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3574.23 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 614.65 |
| 10-20 | 1178.54 |
| 20-30 | 1169.34 |
| 30-40 | 502.01 |
| 40-50 | 74.57 |
| 50-60 | 23.82 |
| 60-70 | 7.70 |
| 70-80 | 2.66 |
| 80-90 | 0.91 |
| 90-100 | 0.01 |
| 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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 104 | 99 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 75 |
| 6 | 91 | 84 | 78 | 74 | 90 | 83 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 71 |
| 7 | 88 | 79 | 74 | 70 | 86 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 |
| 8 | 84 | 76 | 70 | 67 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 64 |
| 9 | 81 | 72 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 63 | 61 |
| 10 | 77 | 69 | 64 | 60 | 77 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 |

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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

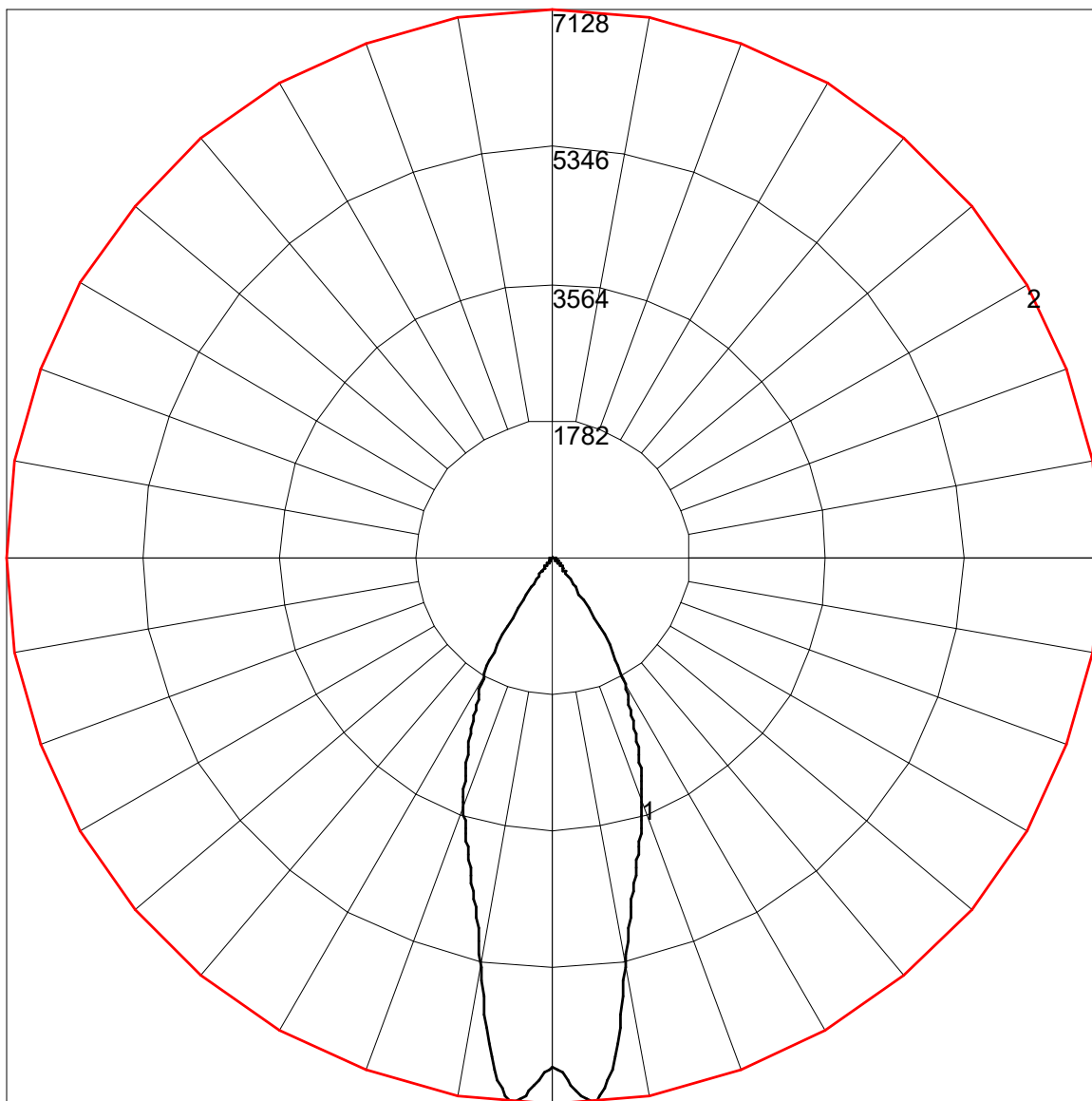
| | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| X=2H | Y=2H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |

UGR Viewed Endwise

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 8H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 12H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |

Maximum UGR = 4.5

POLAR GRAPH



Maximum Candela = 7128.422 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)