



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L10-935-XXX-DIM-UNV-LW-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 1-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CR-TL-L10-935-xxx-DIM-UNV-LW-CS-xx

[LUMINAIRE] 8" DIA. SURFACE CYLINDER

[LAMP] One white LED

[_SEARCH_SOURCETYPE] 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 | 696 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 80 |
| Total Luminaire Watts | 8.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.08 |
| Spacing Criterion (90-270) | 1.08 |
| Spacing Criterion (Diagonal) | 0.98 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.46 ft (Diameter) |
| Luminous Width (90-270) | 0.46 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 | 11576 | 11576 | 11576 |
| 55 | 9638 | 9638 | 9638 |
| 65 | 7322 | 7322 | 7322 |
| 75 | 5310 | 5310 | 5310 |
| 85 | 3460 | 3460 | 3460 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 442.979 |
| 0.5 | 442.890 |
| 1.0 | 442.533 |
| 1.5 | 441.998 |
| 2.0 | 441.329 |
| 2.5 | 440.437 |
| 3.0 | 439.545 |
| 3.5 | 438.519 |
| 4.0 | 437.583 |
| 4.5 | 436.646 |
| 5.0 | 435.977 |
| 5.5 | 435.353 |
| 6.0 | 434.773 |
| 6.5 | 434.193 |
| 7.0 | 433.569 |
| 7.5 | 432.989 |
| 8.0 | 432.409 |
| 8.5 | 431.874 |
| 9.0 | 431.339 |
| 9.5 | 430.893 |
| 10.0 | 430.447 |
| 10.5 | 430.090 |
| 11.0 | 429.778 |
| 11.5 | 429.600 |
| 12.0 | 429.288 |
| 12.5 | 428.975 |
| 13.0 | 428.529 |
| 13.5 | 427.950 |
| 14.0 | 427.236 |
| 14.5 | 426.433 |
| 15.0 | 425.586 |
| 15.5 | 424.516 |
| 16.0 | 423.356 |
| 16.5 | 422.197 |
| 17.0 | 421.037 |
| 17.5 | 419.833 |
| 18.0 | 418.540 |
| 18.5 | 417.068 |
| 19.0 | 415.418 |
| 19.5 | 413.590 |
| 20.0 | 411.493 |
| 20.5 | 409.219 |
| 21.0 | 406.409 |
| 21.5 | 403.065 |
| 22.0 | 399.274 |
| 22.5 | 394.993 |
| 23.0 | 390.310 |
| 23.5 | 385.226 |
| 24.0 | 379.607 |
| 24.5 | 373.542 |
| 25.0 | 366.986 |
| 25.5 | 360.163 |
| 26.0 | 352.893 |
| 26.5 | 345.312 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 27.0 | 337.240 |
| 27.5 | 328.945 |
| 28.0 | 320.204 |
| 28.5 | 310.973 |
| 29.0 | 301.384 |
| 29.5 | 291.305 |
| 30.0 | 280.959 |
| 30.5 | 270.300 |
| 31.0 | 259.642 |
| 31.5 | 248.894 |
| 32.0 | 238.458 |
| 32.5 | 228.469 |
| 33.0 | 218.880 |
| 33.5 | 209.917 |
| 34.0 | 201.666 |
| 34.5 | 194.174 |
| 35.0 | 187.484 |
| 35.5 | 181.330 |
| 36.0 | 175.934 |
| 36.5 | 170.984 |
| 37.0 | 166.569 |
| 37.5 | 162.599 |
| 38.0 | 158.987 |
| 38.5 | 155.687 |
| 39.0 | 152.565 |
| 39.5 | 149.756 |
| 40.0 | 147.035 |
| 40.5 | 144.493 |
| 41.0 | 142.130 |
| 41.5 | 139.811 |
| 42.0 | 137.581 |
| 42.5 | 135.529 |
| 43.0 | 133.433 |
| 43.5 | 131.382 |
| 44.0 | 129.375 |
| 44.5 | 127.413 |
| 45.0 | 125.406 |
| 45.5 | 123.488 |
| 46.0 | 121.526 |
| 46.5 | 119.564 |
| 47.0 | 117.557 |
| 47.5 | 115.595 |
| 48.0 | 113.588 |
| 48.5 | 111.581 |
| 49.0 | 109.574 |
| 49.5 | 107.478 |
| 50.0 | 105.471 |
| 50.5 | 103.420 |
| 51.0 | 101.368 |
| 51.5 | 99.272 |
| 52.0 | 97.176 |
| 52.5 | 95.080 |
| 53.0 | 92.984 |
| 53.5 | 90.888 |
| 54.0 | 88.881 |
| 54.5 | 86.830 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 84.689 |
| 55.5 | 82.593 |
| 56.0 | 80.497 |
| 56.5 | 78.535 |
| 57.0 | 76.572 |
| 57.5 | 74.521 |
| 58.0 | 72.470 |
| 58.5 | 70.463 |
| 59.0 | 68.500 |
| 59.5 | 66.538 |
| 60.0 | 64.665 |
| 60.5 | 62.792 |
| 61.0 | 60.964 |
| 61.5 | 59.135 |
| 62.0 | 57.396 |
| 62.5 | 55.657 |
| 63.0 | 53.962 |
| 63.5 | 52.267 |
| 64.0 | 50.617 |
| 64.5 | 49.012 |
| 65.0 | 47.406 |
| 65.5 | 45.845 |
| 66.0 | 44.289 |
| 66.5 | 42.759 |
| 67.0 | 41.247 |
| 67.5 | 39.767 |
| 68.0 | 38.313 |
| 68.5 | 36.855 |
| 69.0 | 35.441 |
| 69.5 | 34.041 |
| 70.0 | 32.680 |
| 70.5 | 31.365 |
| 71.0 | 30.076 |
| 71.5 | 28.827 |
| 72.0 | 27.623 |
| 72.5 | 26.455 |
| 73.0 | 25.318 |
| 73.5 | 24.203 |
| 74.0 | 23.132 |
| 74.5 | 22.084 |
| 75.0 | 21.054 |
| 75.5 | 20.060 |
| 76.0 | 19.083 |
| 76.5 | 18.124 |
| 77.0 | 17.192 |
| 77.5 | 16.278 |
| 78.0 | 15.390 |
| 78.5 | 14.521 |
| 79.0 | 13.669 |
| 79.5 | 12.848 |
| 80.0 | 12.032 |
| 80.5 | 11.243 |
| 81.0 | 10.462 |
| 81.5 | 9.686 |
| 82.0 | 8.928 |
| 82.5 | 8.175 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 7.439 |
| 83.5 | 6.716 |
| 84.0 | 6.003 |
| 84.5 | 5.303 |
| 85.0 | 4.620 |
| 85.5 | 3.960 |
| 86.0 | 3.322 |
| 86.5 | 2.707 |
| 87.0 | 2.109 |
| 87.5 | 1.610 |
| 88.0 | 1.231 |
| 88.5 | 0.901 |
| 89.0 | 0.624 |
| 89.5 | 0.392 |
| 90.0 | 0.250 |
| 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-L10-935-XXX-DIM-UNV-LW-CS-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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8CR-TL-L10-935-XXX-DIM-UNV-LW-CS-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 |

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PHOTOMETRIC FILENAME : 8CR-TL-L10-935-XXX-DIM-UNV-LW-CS-XX_.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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L10-935-XXX-DIM-UNV-LW-CS-XX_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 161.36 | N.A. | 23.20 |
| 0-30 | 326.18 | N.A. | 46.80 |
| 0-40 | 448.39 | N.A. | 64.40 |
| 0-60 | 620.96 | N.A. | 89.20 |
| 0-80 | 690.85 | N.A. | 99.20 |
| 0-90 | 696.38 | N.A. | 100.00 |
| 10-90 | 654.92 | N.A. | 94.00 |
| 20-40 | 287.03 | N.A. | 41.20 |
| 20-50 | 383.87 | N.A. | 55.10 |
| 40-70 | 219.82 | N.A. | 31.60 |
| 60-80 | 69.90 | N.A. | 10.00 |
| 70-80 | 22.64 | N.A. | 3.30 |
| 80-90 | 5.52 | N.A. | 0.80 |
| 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 | 696.38 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 41.45 |
| 10-20 | 119.91 |
| 20-30 | 164.82 |
| 30-40 | 122.21 |
| 40-50 | 96.84 |
| 50-60 | 75.72 |
| 60-70 | 47.25 |
| 70-80 | 22.64 |
| 80-90 | 5.52 |
| 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 |

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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 91 | 86 | 101 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 80 | 78 |
| 3 | 96 | 87 | 80 | 75 | 93 | 85 | 79 | 74 | 83 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 62 | 57 | 65 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 52 | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 54 | 48 | 43 | 52 | 47 | 43 | 42 |
| 9 | 65 | 53 | 45 | 41 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 |
| 10 | 61 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |

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

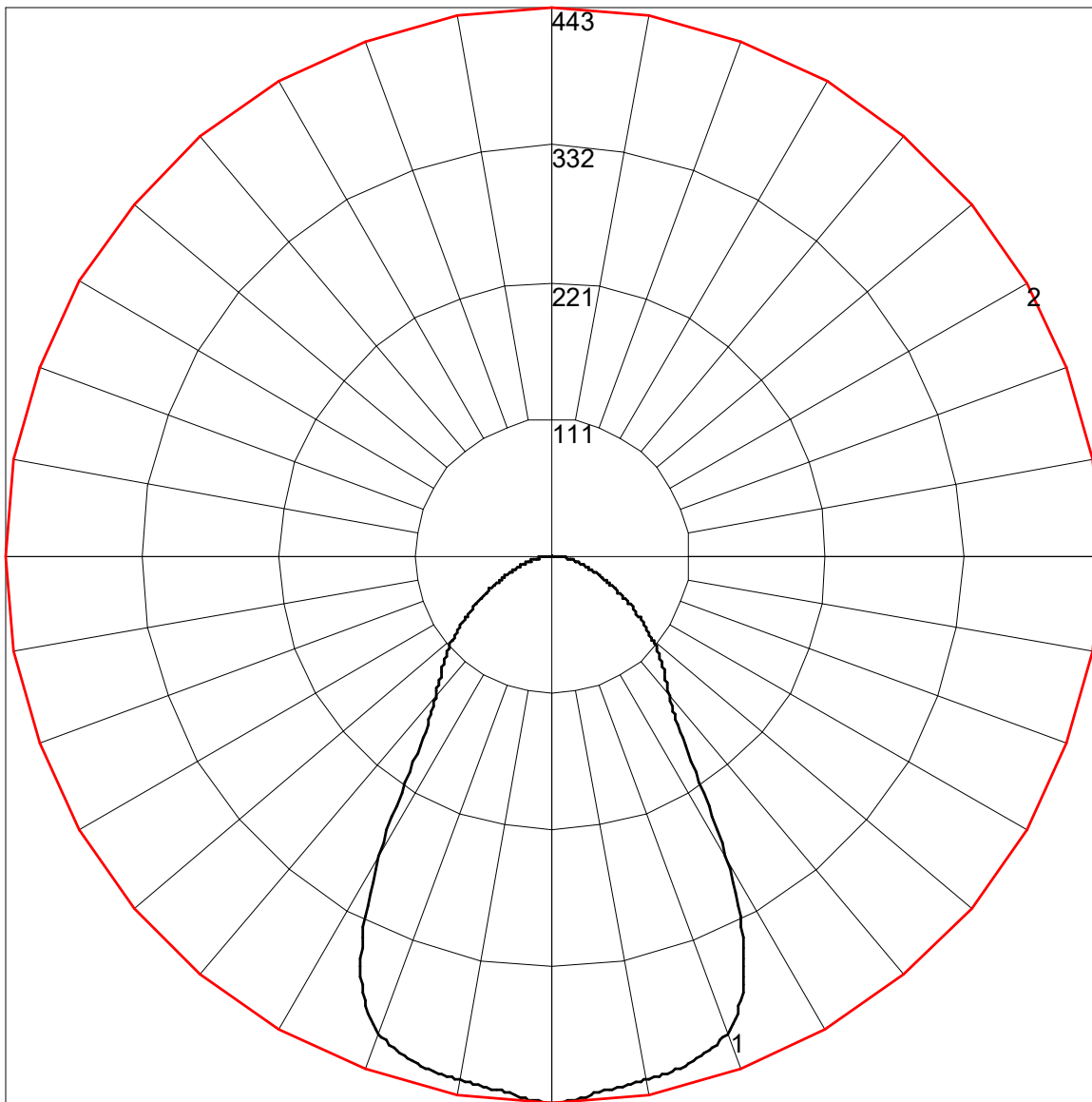
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 17.8 | 19.2 | 18.2 | 19.5 | 19.8 | 17.8 | 19.2 | 18.2 | 19.5 | 19.8 |
| | 3H | 19.0 | 20.3 | 19.4 | 20.6 | 20.9 | 19.0 | 20.3 | 19.4 | 20.6 | 20.9 |
| | 4H | 19.4 | 20.6 | 19.8 | 20.9 | 21.3 | 19.4 | 20.6 | 19.8 | 20.9 | 21.3 |
| | 6H | 19.7 | 20.7 | 20.1 | 21.1 | 21.5 | 19.7 | 20.7 | 20.1 | 21.1 | 21.5 |
| | 8H | 19.7 | 20.8 | 20.2 | 21.2 | 21.6 | 19.7 | 20.8 | 20.2 | 21.2 | 21.6 |
| | 12H | 19.8 | 20.8 | 20.2 | 21.1 | 21.6 | 19.8 | 20.8 | 20.2 | 21.1 | 21.6 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 18.2 | 19.4 | 18.6 | 19.7 | 20.1 | 18.2 | 19.4 | 18.6 | 19.7 | 20.1 |
| | 3H | 19.6 | 20.6 | 20.0 | 21.0 | 21.4 | 19.6 | 20.6 | 20.0 | 21.0 | 21.4 |
| | 4H | 20.1 | 21.0 | 20.6 | 21.4 | 21.8 | 20.1 | 21.0 | 20.6 | 21.4 | 21.8 |
| | 6H | 20.5 | 21.2 | 21.0 | 21.7 | 22.1 | 20.5 | 21.2 | 21.0 | 21.7 | 22.1 |
| | 8H | 20.6 | 21.3 | 21.0 | 21.7 | 22.2 | 20.6 | 21.3 | 21.0 | 21.7 | 22.2 |
| | 12H | 20.7 | 21.3 | 21.1 | 21.8 | 22.2 | 20.7 | 21.3 | 21.1 | 21.8 | 22.2 |
| 8H | 4H | 20.3 | 21.0 | 20.7 | 21.4 | 21.9 | 20.3 | 21.0 | 20.7 | 21.4 | 21.9 |
| | 6H | 20.7 | 21.3 | 21.2 | 21.8 | 22.3 | 20.7 | 21.3 | 21.2 | 21.8 | 22.3 |
| | 8H | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 |
| | 12H | 21.0 | 21.5 | 21.5 | 22.0 | 22.5 | 21.0 | 21.5 | 21.5 | 22.0 | 22.5 |
| 12H | 4H | 20.3 | 20.9 | 20.8 | 21.4 | 21.8 | 20.3 | 20.9 | 20.8 | 21.4 | 21.8 |
| | 6H | 20.8 | 21.3 | 21.3 | 21.7 | 22.3 | 20.8 | 21.3 | 21.3 | 21.7 | 22.3 |
| | 8H | 21.0 | 21.4 | 21.5 | 21.9 | 22.5 | 21.0 | 21.4 | 21.5 | 21.9 | 22.5 |

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 442.979 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.)