



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L20-940-DIM-UNV-SW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from UL 12326812.29
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 08-04-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6PR-TL-L20-940-DIM-UNV-SW-OF-WH
[LUMINAIRE] Black formed aluminum housing, reflector, clear glas
[MORE] s patterned lens enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1577 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 69 |
| Total Luminaire Watts | 22.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.26 |
| 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 | 36644 | 36644 | 36644 |
| 55 | 18093 | 18093 | 18093 |
| 65 | 12256 | 12256 | 12256 |
| 75 | 9115 | 9115 | 9115 |
| 85 | 6312 | 6312 | 6312 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 834.924 |
| 0.5 | 834.210 |
| 1.0 | 833.496 |
| 1.5 | 832.782 |
| 2.0 | 831.353 |
| 2.5 | 829.925 |
| 3.0 | 827.782 |
| 3.5 | 826.354 |
| 4.0 | 824.211 |
| 4.5 | 822.068 |
| 5.0 | 819.926 |
| 5.5 | 817.783 |
| 6.0 | 815.640 |
| 6.5 | 813.498 |
| 7.0 | 811.355 |
| 7.5 | 808.498 |
| 8.0 | 806.356 |
| 8.5 | 804.213 |
| 9.0 | 801.356 |
| 9.5 | 798.499 |
| 10.0 | 796.356 |
| 10.5 | 793.500 |
| 11.0 | 790.643 |
| 11.5 | 788.500 |
| 12.0 | 785.643 |
| 12.5 | 782.786 |
| 13.0 | 779.929 |
| 13.5 | 777.072 |
| 14.0 | 774.216 |
| 14.5 | 771.359 |
| 15.0 | 767.788 |
| 15.5 | 764.931 |
| 16.0 | 762.074 |
| 16.5 | 759.217 |
| 17.0 | 755.646 |
| 17.5 | 752.789 |
| 18.0 | 750.646 |
| 18.5 | 747.789 |
| 19.0 | 744.933 |
| 19.5 | 742.076 |
| 20.0 | 739.219 |
| 20.5 | 737.076 |
| 21.0 | 734.219 |
| 21.5 | 731.362 |
| 22.0 | 727.791 |
| 22.5 | 724.220 |
| 23.0 | 721.363 |
| 23.5 | 717.078 |
| 24.0 | 713.721 |
| 24.5 | 709.936 |
| 25.0 | 706.079 |
| 25.5 | 702.222 |
| 26.0 | 698.365 |
| 26.5 | 694.366 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 690.437 |
| 27.5 | 686.509 |
| 28.0 | 682.581 |
| 28.5 | 678.724 |
| 29.0 | 675.010 |
| 29.5 | 671.225 |
| 30.0 | 667.154 |
| 30.5 | 663.083 |
| 31.0 | 658.797 |
| 31.5 | 654.369 |
| 32.0 | 649.513 |
| 32.5 | 644.370 |
| 33.0 | 639.085 |
| 33.5 | 633.371 |
| 34.0 | 627.229 |
| 34.5 | 620.658 |
| 35.0 | 613.802 |
| 35.5 | 606.374 |
| 36.0 | 598.660 |
| 36.5 | 590.518 |
| 37.0 | 581.876 |
| 37.5 | 573.020 |
| 38.0 | 563.735 |
| 38.5 | 553.878 |
| 39.0 | 543.665 |
| 39.5 | 532.952 |
| 40.0 | 522.024 |
| 40.5 | 510.597 |
| 41.0 | 499.383 |
| 41.5 | 487.670 |
| 42.0 | 475.743 |
| 42.5 | 463.315 |
| 43.0 | 450.673 |
| 43.5 | 437.603 |
| 44.0 | 424.390 |
| 44.5 | 410.820 |
| 45.0 | 396.964 |
| 45.5 | 382.680 |
| 46.0 | 367.967 |
| 46.5 | 353.111 |
| 47.0 | 338.112 |
| 47.5 | 323.256 |
| 48.0 | 308.472 |
| 48.5 | 293.831 |
| 49.0 | 279.760 |
| 49.5 | 265.833 |
| 50.0 | 252.834 |
| 50.5 | 240.193 |
| 51.0 | 228.479 |
| 51.5 | 217.480 |
| 52.0 | 207.196 |
| 52.5 | 197.625 |
| 53.0 | 188.626 |
| 53.5 | 180.269 |
| 54.0 | 172.699 |
| 54.5 | 165.556 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 55.0 | 158.986 |
| 55.5 | 152.915 |
| 56.0 | 147.272 |
| 56.5 | 141.987 |
| 57.0 | 136.845 |
| 57.5 | 132.059 |
| 58.0 | 127.560 |
| 58.5 | 123.203 |
| 59.0 | 119.203 |
| 59.5 | 115.347 |
| 60.0 | 111.490 |
| 60.5 | 107.847 |
| 61.0 | 104.276 |
| 61.5 | 100.848 |
| 62.0 | 97.491 |
| 62.5 | 94.277 |
| 63.0 | 91.135 |
| 63.5 | 88.063 |
| 64.0 | 85.064 |
| 64.5 | 82.207 |
| 65.0 | 79.350 |
| 65.5 | 76.636 |
| 66.0 | 73.922 |
| 66.5 | 71.279 |
| 67.0 | 68.708 |
| 67.5 | 66.280 |
| 68.0 | 63.780 |
| 68.5 | 61.494 |
| 69.0 | 59.137 |
| 69.5 | 56.923 |
| 70.0 | 54.709 |
| 70.5 | 52.638 |
| 71.0 | 50.638 |
| 71.5 | 48.638 |
| 72.0 | 46.710 |
| 72.5 | 44.925 |
| 73.0 | 43.068 |
| 73.5 | 41.282 |
| 74.0 | 39.568 |
| 74.5 | 37.854 |
| 75.0 | 36.140 |
| 75.5 | 34.568 |
| 76.0 | 32.926 |
| 76.5 | 31.426 |
| 77.0 | 29.854 |
| 77.5 | 28.355 |
| 78.0 | 26.855 |
| 78.5 | 25.426 |
| 79.0 | 23.998 |
| 79.5 | 22.569 |
| 80.0 | 21.212 |
| 80.5 | 19.855 |
| 81.0 | 18.498 |
| 81.5 | 17.141 |
| 82.0 | 15.856 |
| 82.5 | 14.570 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|--------|
| 83.0 | 13.285 |
| 83.5 | 12.070 |
| 84.0 | 10.785 |
| 84.5 | 9.642 |
| 85.0 | 8.428 |
| 85.5 | 7.285 |
| 86.0 | 6.142 |
| 86.5 | 5.071 |
| 87.0 | 4.071 |
| 87.5 | 3.214 |
| 88.0 | 2.500 |
| 88.5 | 1.857 |
| 89.0 | 1.357 |
| 89.5 | 0.928 |
| 90.0 | 0.571 |
| 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 : 6PR-TL-L20-940-DIM-UNV-SW-OF-WH_.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 : 6PR-TL-L20-940-DIM-UNV-SW-OF-WH_.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 | 294.32 | N.A. | 18.70 |
| 0-30 | 619.69 | N.A. | 39.30 |
| 0-40 | 999.25 | N.A. | 63.40 |
| 0-60 | 1448.81 | N.A. | 91.90 |
| 0-80 | 1567.19 | N.A. | 99.40 |
| 0-90 | 1577.17 | N.A. | 100.00 |
| 10-90 | 1499.65 | N.A. | 95.10 |
| 20-40 | 704.94 | N.A. | 44.70 |
| 20-50 | 1006.11 | N.A. | 63.80 |
| 40-70 | 529.18 | N.A. | 33.60 |
| 60-80 | 118.38 | N.A. | 7.50 |
| 70-80 | 38.76 | N.A. | 2.50 |
| 80-90 | 9.98 | N.A. | 0.60 |
| 90-110 | 0.02 | N.A. | 0.00 |
| 90-120 | 0.02 | N.A. | 0.00 |
| 90-130 | 0.02 | N.A. | 0.00 |
| 90-150 | 0.02 | N.A. | 0.00 |
| 90-180 | 0.02 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1577.18 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 77.51 |
| 10-20 | 216.80 |
| 20-30 | 325.38 |
| 30-40 | 379.56 |
| 40-50 | 301.18 |
| 50-60 | 148.38 |
| 60-70 | 79.62 |
| 70-80 | 38.76 |
| 80-90 | 9.98 |
| 90-100 | 0.02 |
| 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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 90 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 85 | 82 | 80 | 78 |
| 3 | 96 | 87 | 80 | 75 | 93 | 85 | 79 | 74 | 83 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 70 | 69 |
| 4 | 89 | 79 | 71 | 66 | 87 | 77 | 70 | 65 | 75 | 69 | 64 | 73 | 68 | 63 | 71 | 66 | 63 | 61 |
| 5 | 83 | 71 | 64 | 58 | 81 | 70 | 63 | 58 | 68 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 6 | 77 | 65 | 57 | 52 | 75 | 64 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 54 | 50 | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 40 |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 |

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

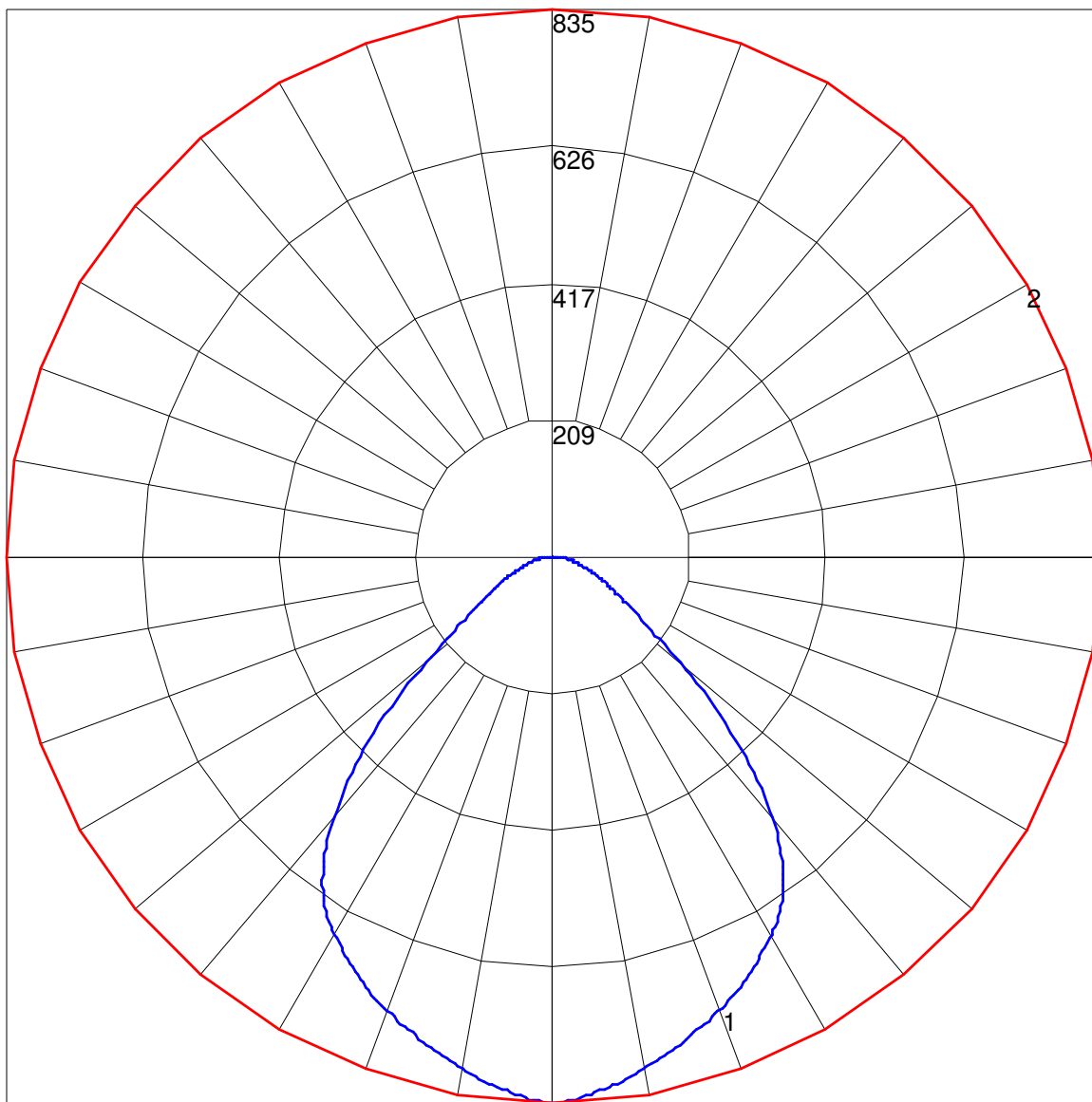
| X=2H | Y=2H | 18.9 | 20.3 | 19.3 | 20.6 | 20.9 | 18.9 | 20.3 | 19.3 | 20.6 | 20.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 20.0 | 21.2 | 20.4 | 21.5 | 21.9 | 20.0 | 21.2 | 20.4 | 21.5 | 21.9 |
| | 4H | 20.4 | 21.5 | 20.8 | 21.9 | 22.2 | 20.4 | 21.5 | 20.8 | 21.9 | 22.2 |
| | 6H | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 |
| | 8H | 20.7 | 21.7 | 21.1 | 22.1 | 22.5 | 20.7 | 21.7 | 21.1 | 22.1 | 22.5 |
| | 12H | 20.8 | 21.7 | 21.2 | 22.1 | 22.5 | 20.8 | 21.7 | 21.2 | 22.1 | 22.5 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.3 | 20.4 | 19.7 | 20.7 | 21.1 | 19.3 | 20.4 | 19.7 | 20.7 | 21.1 |
| | 3H | 20.5 | 21.5 | 20.9 | 21.9 | 22.3 | 20.5 | 21.5 | 20.9 | 21.9 | 22.3 |
| | 4H | 21.0 | 21.9 | 21.5 | 22.3 | 22.7 | 21.0 | 21.9 | 21.5 | 22.3 | 22.7 |
| | 6H | 21.4 | 22.1 | 21.9 | 22.6 | 23.1 | 21.4 | 22.1 | 21.9 | 22.6 | 23.1 |
| | 8H | 21.5 | 22.2 | 22.0 | 22.7 | 23.1 | 21.5 | 22.2 | 22.0 | 22.7 | 23.1 |
| | 12H | 21.6 | 22.2 | 22.1 | 22.7 | 23.2 | 21.6 | 22.2 | 22.1 | 22.7 | 23.2 |
| 8H | 4H | 21.2 | 21.9 | 21.7 | 22.3 | 22.8 | 21.2 | 21.9 | 21.7 | 22.3 | 22.8 |
| | 6H | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 |
| | 8H | 21.8 | 22.3 | 22.4 | 22.9 | 23.3 | 21.8 | 22.3 | 22.4 | 22.9 | 23.3 |
| | 12H | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 |
| 12H | 4H | 21.2 | 21.8 | 21.7 | 22.3 | 22.7 | 21.2 | 21.8 | 21.7 | 22.3 | 22.7 |
| | 6H | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 |
| | 8H | 21.9 | 22.3 | 22.4 | 22.8 | 23.4 | 21.9 | 22.3 | 22.4 | 22.8 | 23.4 |

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 834.924 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.)