



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12316380.12

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 27-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6CR-TL-L20-835-xxx-DIM-UNV-RW-CS-AD-xx

[LUMINAIRE] 6" DIA. SURFACE CYLINDER

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1102 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 56 |
| Total Luminaire Watts | 19.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.98 |
| Spacing Criterion (90-270) | 0.98 |
| Spacing Criterion (Diagonal) | 0.88 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.38 ft (Diameter) |
| Luminous Width (90-270) | 0.38 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 | 25498 | 25498 | 25498 |
| 55 | 20589 | 20589 | 20589 |
| 65 | 13319 | 13319 | 13319 |
| 75 | 7427 | 7427 | 7427 |
| 85 | 3815 | 3815 | 3815 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 885.479 |
| 0.5 | 885.479 |
| 1.0 | 884.646 |
| 1.5 | 882.980 |
| 2.0 | 881.314 |
| 2.5 | 879.648 |
| 3.0 | 877.149 |
| 3.5 | 874.650 |
| 4.0 | 872.151 |
| 4.5 | 868.819 |
| 5.0 | 866.320 |
| 5.5 | 862.988 |
| 6.0 | 859.656 |
| 6.5 | 856.324 |
| 7.0 | 852.992 |
| 7.5 | 849.660 |
| 8.0 | 846.328 |
| 8.5 | 842.163 |
| 9.0 | 838.831 |
| 9.5 | 835.499 |
| 10.0 | 832.334 |
| 10.5 | 828.918 |
| 11.0 | 825.420 |
| 11.5 | 822.004 |
| 12.0 | 818.756 |
| 12.5 | 815.507 |
| 13.0 | 812.258 |
| 13.5 | 808.926 |
| 14.0 | 805.594 |
| 14.5 | 802.262 |
| 15.0 | 798.847 |
| 15.5 | 795.348 |
| 16.0 | 791.683 |
| 16.5 | 788.018 |
| 17.0 | 784.270 |
| 17.5 | 780.271 |
| 18.0 | 776.023 |
| 18.5 | 771.441 |
| 19.0 | 767.026 |
| 19.5 | 762.278 |
| 20.0 | 757.114 |
| 20.5 | 751.199 |
| 21.0 | 744.369 |
| 21.5 | 736.955 |
| 22.0 | 728.459 |
| 22.5 | 719.046 |
| 23.0 | 708.383 |
| 23.5 | 696.388 |
| 24.0 | 683.227 |
| 24.5 | 668.316 |
| 25.0 | 651.656 |
| 25.5 | 633.247 |
| 26.0 | 613.338 |
| 26.5 | 592.180 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 27.0 | 569.939 |
| 27.5 | 547.364 |
| 28.0 | 523.707 |
| 28.5 | 500.300 |
| 29.0 | 476.976 |
| 29.5 | 453.652 |
| 30.0 | 430.744 |
| 30.5 | 408.253 |
| 31.0 | 387.012 |
| 31.5 | 366.437 |
| 32.0 | 347.028 |
| 32.5 | 328.952 |
| 33.0 | 312.208 |
| 33.5 | 297.131 |
| 34.0 | 283.553 |
| 34.5 | 271.725 |
| 35.0 | 261.312 |
| 35.5 | 252.482 |
| 36.0 | 244.735 |
| 36.5 | 238.238 |
| 37.0 | 232.490 |
| 37.5 | 227.576 |
| 38.0 | 223.077 |
| 38.5 | 219.079 |
| 39.0 | 215.497 |
| 39.5 | 212.248 |
| 40.0 | 209.333 |
| 40.5 | 206.584 |
| 41.0 | 203.918 |
| 41.5 | 201.503 |
| 42.0 | 199.087 |
| 42.5 | 196.838 |
| 43.0 | 194.589 |
| 43.5 | 192.256 |
| 44.0 | 189.924 |
| 44.5 | 187.592 |
| 45.0 | 185.176 |
| 45.5 | 182.677 |
| 46.0 | 180.095 |
| 46.5 | 177.429 |
| 47.0 | 174.680 |
| 47.5 | 171.848 |
| 48.0 | 169.016 |
| 48.5 | 166.017 |
| 49.0 | 162.935 |
| 49.5 | 159.686 |
| 50.0 | 156.437 |
| 50.5 | 153.105 |
| 51.0 | 149.607 |
| 51.5 | 146.192 |
| 52.0 | 142.693 |
| 52.5 | 139.194 |
| 53.0 | 135.862 |
| 53.5 | 132.197 |
| 54.0 | 128.532 |
| 54.5 | 124.867 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 55.0 | 121.285 |
| 55.5 | 117.620 |
| 56.0 | 114.038 |
| 56.5 | 110.539 |
| 57.0 | 107.041 |
| 57.5 | 103.542 |
| 58.0 | 100.127 |
| 58.5 | 96.795 |
| 59.0 | 93.463 |
| 59.5 | 90.214 |
| 60.0 | 86.965 |
| 60.5 | 83.800 |
| 61.0 | 80.718 |
| 61.5 | 77.636 |
| 62.0 | 74.720 |
| 62.5 | 71.721 |
| 63.0 | 68.889 |
| 63.5 | 65.974 |
| 64.0 | 63.225 |
| 64.5 | 60.476 |
| 65.0 | 57.810 |
| 65.5 | 55.145 |
| 66.0 | 52.562 |
| 66.5 | 50.063 |
| 67.0 | 47.648 |
| 67.5 | 45.232 |
| 68.0 | 42.900 |
| 68.5 | 40.567 |
| 69.0 | 38.318 |
| 69.5 | 36.152 |
| 70.0 | 34.153 |
| 70.5 | 32.237 |
| 71.0 | 30.488 |
| 71.5 | 28.822 |
| 72.0 | 27.239 |
| 72.5 | 25.740 |
| 73.0 | 24.324 |
| 73.5 | 23.074 |
| 74.0 | 21.825 |
| 74.5 | 20.742 |
| 75.0 | 19.742 |
| 75.5 | 18.826 |
| 76.0 | 17.826 |
| 76.5 | 16.910 |
| 77.0 | 15.994 |
| 77.5 | 15.077 |
| 78.0 | 14.244 |
| 78.5 | 13.328 |
| 79.0 | 12.495 |
| 79.5 | 11.662 |
| 80.0 | 10.829 |
| 80.5 | 9.996 |
| 81.0 | 9.246 |
| 81.5 | 8.497 |
| 82.0 | 7.664 |
| 82.5 | 6.997 |

CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 6.248 |
| 83.5 | 5.498 |
| 84.0 | 4.831 |
| 84.5 | 4.082 |
| 85.0 | 3.415 |
| 85.5 | 2.832 |
| 86.0 | 2.249 |
| 86.5 | 1.833 |
| 87.0 | 1.416 |
| 87.5 | 1.083 |
| 88.0 | 0.750 |
| 88.5 | 0.500 |
| 89.0 | 0.250 |
| 89.5 | 0.083 |
| 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 |

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PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-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 |

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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-XX_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 306.50 | N.A. | 27.80 |
| 0-30 | 593.11 | N.A. | 53.80 |
| 0-40 | 767.76 | N.A. | 69.60 |
| 0-60 | 1018.17 | N.A. | 92.40 |
| 0-80 | 1097.84 | N.A. | 99.60 |
| 0-90 | 1102.35 | N.A. | 100.00 |
| 10-90 | 1020.8 | N.A. | 92.60 |
| 20-40 | 461.27 | N.A. | 41.80 |
| 20-50 | 603.38 | N.A. | 54.70 |
| 40-70 | 308.32 | N.A. | 28.00 |
| 60-80 | 79.67 | N.A. | 7.20 |
| 70-80 | 21.76 | N.A. | 2.00 |
| 80-90 | 4.51 | N.A. | 0.40 |
| 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 | 1102.35 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 81.55 |
| 10-20 | 224.94 |
| 20-30 | 286.61 |
| 30-40 | 174.66 |
| 40-50 | 142.11 |
| 50-60 | 108.30 |
| 60-70 | 57.92 |
| 70-80 | 21.76 |
| 80-90 | 4.51 |
| 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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 83 | 78 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 |
| 6 | 80 | 69 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 45 | 66 | 56 | 49 | 44 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 |
| 10 | 64 | 53 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 50 | 45 | 41 | 39 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-XX_.IES

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 | 20.0 | 21.3 | 20.4 | 21.6 | 21.9 | 20.0 | 21.3 | 20.4 | 21.6 | 21.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 20.8 | 21.9 | 21.1 | 22.3 | 22.6 | 20.8 | 21.9 | 21.1 | 22.3 | 22.6 |
| | 4H | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 |
| | 6H | 21.1 | 22.0 | 21.5 | 22.4 | 22.8 | 21.1 | 22.0 | 21.5 | 22.4 | 22.8 |
| | 8H | 21.1 | 22.0 | 21.5 | 22.4 | 22.8 | 21.1 | 22.0 | 21.5 | 22.4 | 22.8 |
| | 12H | 21.0 | 21.9 | 21.5 | 22.3 | 22.8 | 21.0 | 21.9 | 21.5 | 22.3 | 22.8 |

UGR Viewed Endwise

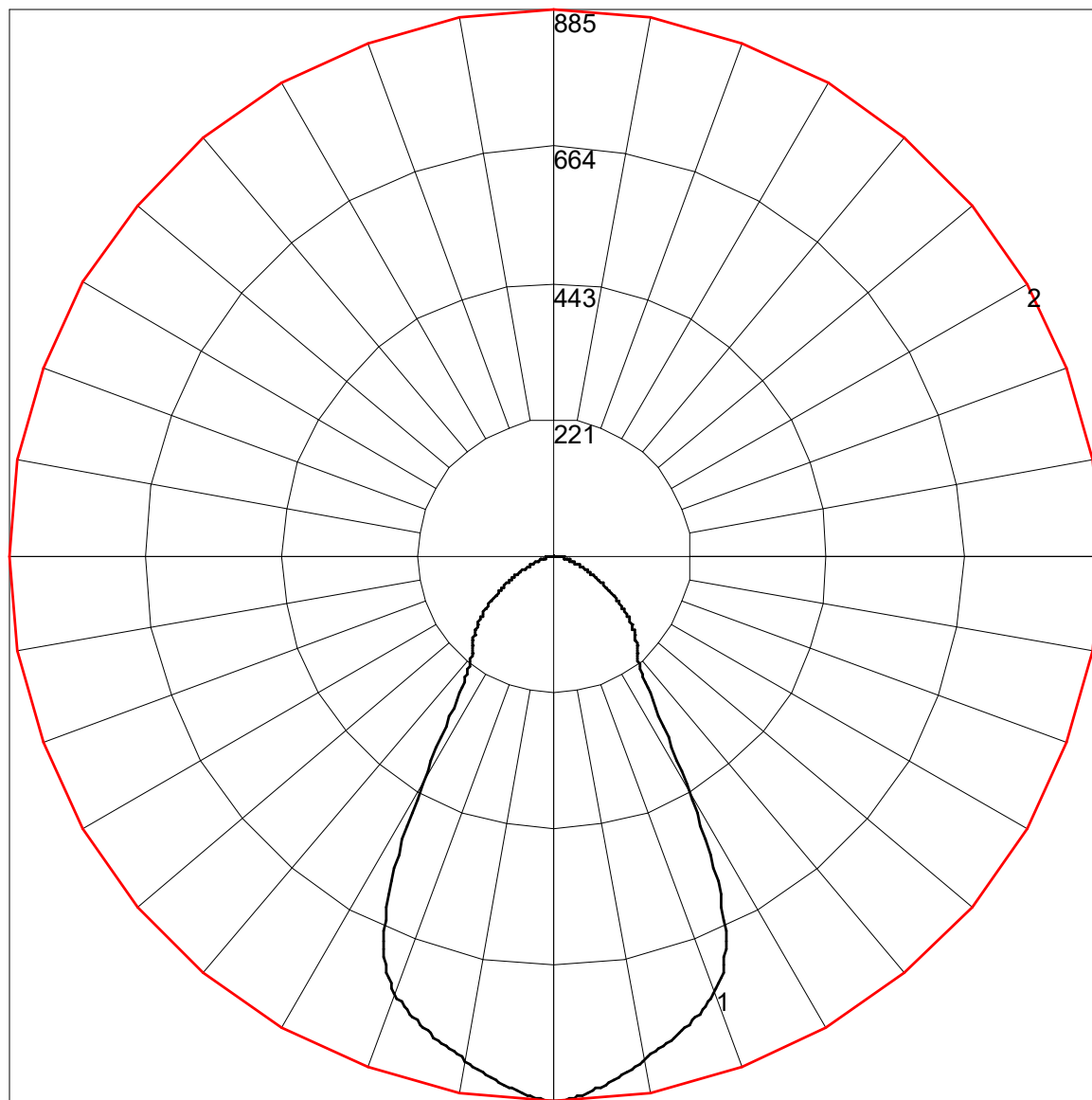
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 20.3 | 21.4 | 20.7 | 21.7 | 22.1 | 20.3 | 21.4 | 20.7 | 21.7 | 22.1 |
| | 3H | 21.2 | 22.1 | 21.6 | 22.5 | 22.9 | 21.2 | 22.1 | 21.6 | 22.5 | 22.9 |
| | 4H | 21.4 | 22.2 | 21.8 | 22.6 | 23.1 | 21.4 | 22.2 | 21.8 | 22.6 | 23.1 |
| | 6H | 21.6 | 22.3 | 22.1 | 22.7 | 23.2 | 21.6 | 22.3 | 22.1 | 22.7 | 23.2 |
| | 8H | 21.6 | 22.3 | 22.1 | 22.7 | 23.2 | 21.6 | 22.3 | 22.1 | 22.7 | 23.2 |
| | 12H | 21.6 | 22.2 | 22.1 | 22.7 | 23.1 | 21.6 | 22.2 | 22.1 | 22.7 | 23.1 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 21.5 | 22.1 | 21.9 | 22.5 | 23.0 | 21.5 | 22.1 | 21.9 | 22.5 | 23.0 |
| | 6H | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 |
| | 8H | 21.7 | 22.2 | 22.3 | 22.7 | 23.2 | 21.7 | 22.2 | 22.3 | 22.7 | 23.2 |
| | 12H | 21.8 | 22.2 | 22.3 | 22.7 | 23.2 | 21.8 | 22.2 | 22.3 | 22.7 | 23.2 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 21.4 | 22.0 | 21.9 | 22.5 | 22.9 | 21.4 | 22.0 | 21.9 | 22.5 | 22.9 |
| | 6H | 21.7 | 22.1 | 22.2 | 22.6 | 23.1 | 21.7 | 22.1 | 22.2 | 22.6 | 23.1 |
| | 8H | 21.8 | 22.2 | 22.3 | 22.6 | 23.2 | 21.8 | 22.2 | 22.3 | 22.6 | 23.2 |

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 885.479 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.)