



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-L7-830-XXX-DIM-UNV-RW-OF-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13257153.03
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01/25/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4CR-L7-830-xxx-DIM-UNV-RW-OF-WH-xx
 [LUMINAIRE] Aluminum housing, optics, and trim enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Downlight
 [_SEARCH_MOUNTING] Pendant, Surface, Suspended, Wall

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 735 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 84 |
| Total Luminaire Watts | 8.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.80 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.21 ft (Diameter) |
| Luminous Width (90-270) | 0.21 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 | 26349 | 26349 | 26349 |
| 55 | 20850 | 20850 | 20850 |
| 65 | 15586 | 15586 | 15586 |
| 75 | 8116 | 8116 | 8116 |
| 85 | 4917 | 4917 | 4917 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 875.860 |
| 0.5 | 875.860 |
| 1.0 | 875.408 |
| 1.5 | 874.957 |
| 2.0 | 874.957 |
| 2.5 | 874.054 |
| 3.0 | 872.700 |
| 3.5 | 870.894 |
| 4.0 | 869.088 |
| 4.5 | 867.282 |
| 5.0 | 864.573 |
| 5.5 | 862.316 |
| 6.0 | 859.607 |
| 6.5 | 856.447 |
| 7.0 | 853.286 |
| 7.5 | 850.126 |
| 8.0 | 846.966 |
| 8.5 | 843.354 |
| 9.0 | 839.291 |
| 9.5 | 835.679 |
| 10.0 | 831.615 |
| 10.5 | 827.101 |
| 11.0 | 822.134 |
| 11.5 | 817.168 |
| 12.0 | 811.751 |
| 12.5 | 806.333 |
| 13.0 | 800.464 |
| 13.5 | 794.143 |
| 14.0 | 787.371 |
| 14.5 | 780.599 |
| 15.0 | 772.924 |
| 15.5 | 765.249 |
| 16.0 | 756.671 |
| 16.5 | 748.093 |
| 17.0 | 739.063 |
| 17.5 | 729.582 |
| 18.0 | 719.650 |
| 18.5 | 708.814 |
| 19.0 | 697.528 |
| 19.5 | 685.338 |
| 20.0 | 672.697 |
| 20.5 | 659.604 |
| 21.0 | 645.608 |
| 21.5 | 631.161 |
| 22.0 | 615.359 |
| 22.5 | 599.558 |
| 23.0 | 582.853 |
| 23.5 | 565.697 |
| 24.0 | 547.638 |
| 24.5 | 529.579 |
| 25.0 | 511.069 |
| 25.5 | 491.655 |
| 26.0 | 471.791 |
| 26.5 | 451.926 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 432.196 |
| 27.5 | 412.377 |
| 28.0 | 392.376 |
| 28.5 | 372.466 |
| 29.0 | 352.105 |
| 29.5 | 331.608 |
| 30.0 | 311.291 |
| 30.5 | 291.291 |
| 31.0 | 271.562 |
| 31.5 | 252.510 |
| 32.0 | 234.180 |
| 32.5 | 216.843 |
| 33.0 | 200.771 |
| 33.5 | 185.872 |
| 34.0 | 172.012 |
| 34.5 | 159.325 |
| 35.0 | 147.813 |
| 35.5 | 137.248 |
| 36.0 | 127.677 |
| 36.5 | 119.099 |
| 37.0 | 111.469 |
| 37.5 | 104.652 |
| 38.0 | 98.467 |
| 38.5 | 92.959 |
| 39.0 | 88.128 |
| 39.5 | 83.884 |
| 40.0 | 80.092 |
| 40.5 | 76.796 |
| 41.0 | 73.861 |
| 41.5 | 71.243 |
| 42.0 | 68.895 |
| 42.5 | 66.818 |
| 43.0 | 64.922 |
| 43.5 | 63.252 |
| 44.0 | 61.671 |
| 44.5 | 60.227 |
| 45.0 | 58.872 |
| 45.5 | 57.563 |
| 46.0 | 56.344 |
| 46.5 | 55.125 |
| 47.0 | 53.996 |
| 47.5 | 52.868 |
| 48.0 | 51.739 |
| 48.5 | 50.655 |
| 49.0 | 49.572 |
| 49.5 | 48.488 |
| 50.0 | 47.450 |
| 50.5 | 46.457 |
| 51.0 | 45.418 |
| 51.5 | 44.425 |
| 52.0 | 43.477 |
| 52.5 | 42.484 |
| 53.0 | 41.536 |
| 53.5 | 40.588 |
| 54.0 | 39.639 |
| 54.5 | 38.691 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 37.788 |
| 55.5 | 36.885 |
| 56.0 | 35.982 |
| 56.5 | 35.080 |
| 57.0 | 34.177 |
| 57.5 | 33.319 |
| 58.0 | 32.416 |
| 58.5 | 31.558 |
| 59.0 | 30.700 |
| 59.5 | 29.888 |
| 60.0 | 29.030 |
| 60.5 | 28.172 |
| 61.0 | 27.314 |
| 61.5 | 26.502 |
| 62.0 | 25.644 |
| 62.5 | 24.831 |
| 63.0 | 24.018 |
| 63.5 | 23.206 |
| 64.0 | 22.393 |
| 64.5 | 21.580 |
| 65.0 | 20.813 |
| 65.5 | 20.045 |
| 66.0 | 19.278 |
| 66.5 | 18.465 |
| 67.0 | 17.743 |
| 67.5 | 17.021 |
| 68.0 | 16.253 |
| 68.5 | 15.531 |
| 69.0 | 14.808 |
| 69.5 | 14.086 |
| 70.0 | 13.409 |
| 70.5 | 12.686 |
| 71.0 | 12.009 |
| 71.5 | 11.287 |
| 72.0 | 10.610 |
| 72.5 | 9.932 |
| 73.0 | 9.255 |
| 73.5 | 8.578 |
| 74.0 | 7.946 |
| 74.5 | 7.269 |
| 75.0 | 6.637 |
| 75.5 | 6.050 |
| 76.0 | 5.463 |
| 76.5 | 5.011 |
| 77.0 | 4.605 |
| 77.5 | 4.244 |
| 78.0 | 3.973 |
| 78.5 | 3.747 |
| 79.0 | 3.567 |
| 79.5 | 3.386 |
| 80.0 | 3.160 |
| 80.5 | 2.980 |
| 81.0 | 2.799 |
| 81.5 | 2.619 |
| 82.0 | 2.393 |
| 82.5 | 2.212 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 2.077 |
| 83.5 | 1.896 |
| 84.0 | 1.716 |
| 84.5 | 1.535 |
| 85.0 | 1.354 |
| 85.5 | 1.219 |
| 86.0 | 1.038 |
| 86.5 | 0.903 |
| 87.0 | 0.722 |
| 87.5 | 0.587 |
| 88.0 | 0.451 |
| 88.5 | 0.316 |
| 89.0 | 0.181 |
| 89.5 | 0.135 |
| 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 : 4CR-L7-830-XXX-DIM-UNV-RW-OF-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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4CR-L7-830-XXX-DIM-UNV-RW-OF-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 |

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 | 296.24 | N.A. | 40.30 |
| 0-30 | 524.43 | N.A. | 71.40 |
| 0-40 | 624.83 | N.A. | 85.00 |
| 0-60 | 705.08 | N.A. | 95.90 |
| 0-80 | 733.37 | N.A. | 99.80 |
| 0-90 | 734.93 | N.A. | 100.00 |
| 10-90 | 653.46 | N.A. | 88.90 |
| 20-40 | 328.58 | N.A. | 44.70 |
| 20-50 | 374.97 | N.A. | 51.00 |
| 40-70 | 100.94 | N.A. | 13.70 |
| 60-80 | 28.29 | N.A. | 3.80 |
| 70-80 | 7.60 | N.A. | 1.00 |
| 80-90 | 1.56 | N.A. | 0.20 |
| 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 | 734.93 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 81.47 |
| 10-20 | 214.77 |
| 20-30 | 228.18 |
| 30-40 | 100.40 |
| 40-50 | 46.39 |
| 50-60 | 33.87 |
| 60-70 | 20.69 |
| 70-80 | 7.60 |
| 80-90 | 1.56 |
| 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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 75 | 71 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 75 | 70 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 63 |
| 7 | 82 | 72 | 66 | 62 | 81 | 72 | 66 | 62 | 71 | 65 | 61 | 69 | 65 | 61 | 68 | 64 | 61 | 59 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 75 | 65 | 59 | 55 | 73 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 58 | 54 | 61 | 57 | 54 | 53 |
| 10 | 71 | 61 | 55 | 52 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 |

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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

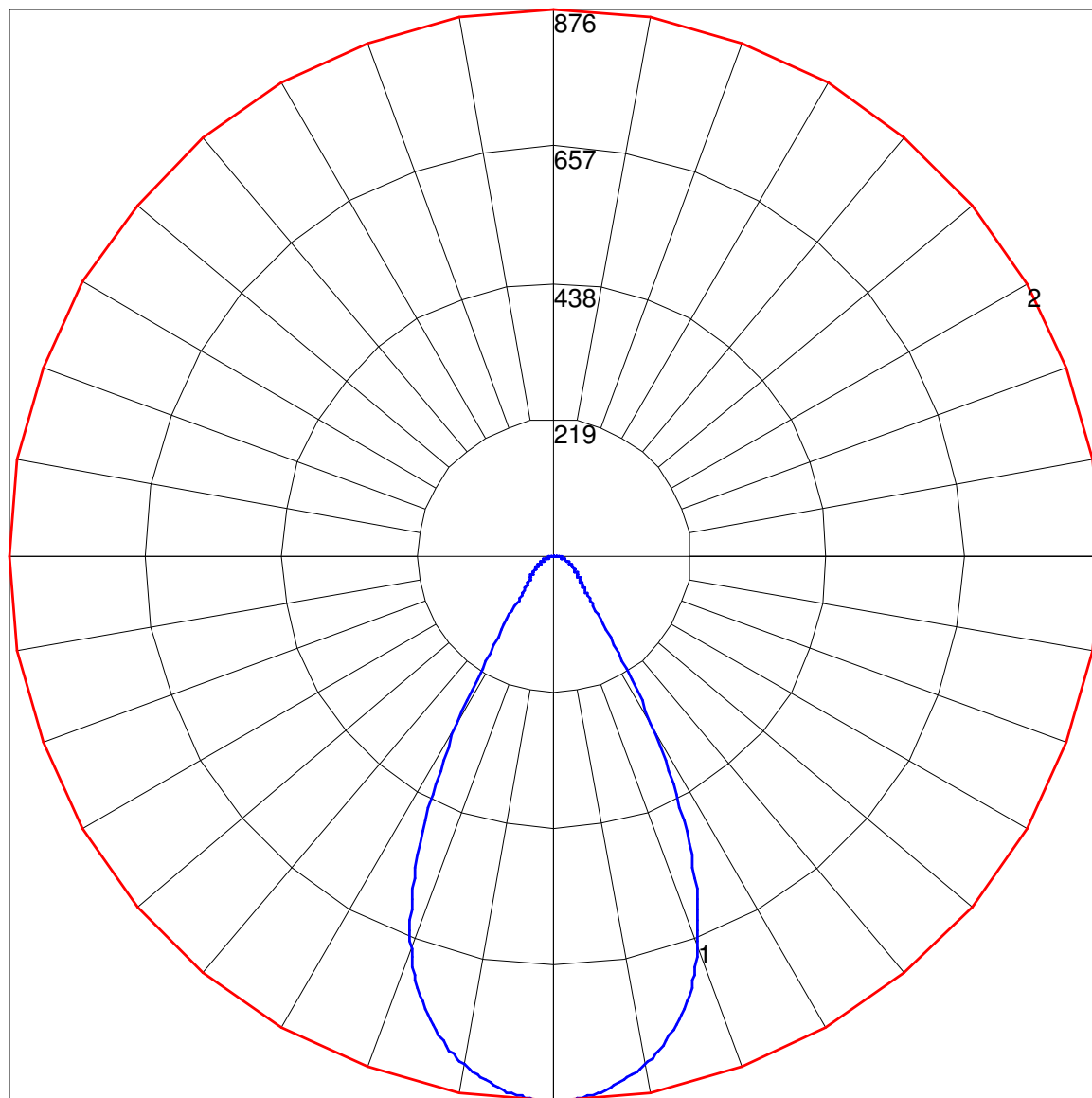
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 17.9 | 19.0 | 18.3 | 19.3 | 19.6 | 17.9 | 19.0 | 18.3 | 19.3 | 19.6 |
| | 3H | 18.9 | 19.9 | 19.3 | 20.2 | 20.6 | 18.9 | 19.9 | 19.3 | 20.2 | 20.6 |
| | 4H | 19.1 | 20.0 | 19.5 | 20.4 | 20.8 | 19.1 | 20.0 | 19.5 | 20.4 | 20.8 |
| | 6H | 19.1 | 20.0 | 19.6 | 20.4 | 20.8 | 19.1 | 20.0 | 19.6 | 20.4 | 20.8 |
| | 8H | 19.1 | 19.9 | 19.6 | 20.3 | 20.7 | 19.1 | 19.9 | 19.6 | 20.3 | 20.7 |
| | 12H | 19.1 | 19.9 | 19.6 | 20.3 | 20.7 | 19.1 | 19.9 | 19.6 | 20.3 | 20.7 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 18.2 | 19.1 | 18.6 | 19.5 | 19.9 | 18.2 | 19.1 | 18.6 | 19.5 | 19.9 |
| | 3H | 19.4 | 20.1 | 19.8 | 20.6 | 21.0 | 19.4 | 20.1 | 19.8 | 20.6 | 21.0 |
| | 4H | 19.6 | 20.3 | 20.1 | 20.7 | 21.2 | 19.6 | 20.3 | 20.1 | 20.7 | 21.2 |
| | 6H | 19.7 | 20.3 | 20.2 | 20.7 | 21.2 | 19.7 | 20.3 | 20.2 | 20.7 | 21.2 |
| | 8H | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 |
| | 12H | 19.7 | 20.2 | 20.2 | 20.7 | 21.1 | 19.7 | 20.2 | 20.2 | 20.7 | 21.1 |
| 8H | 4H | 19.6 | 20.2 | 20.1 | 20.6 | 21.1 | 19.6 | 20.2 | 20.1 | 20.6 | 21.1 |
| | 6H | 19.8 | 20.2 | 20.3 | 20.7 | 21.2 | 19.8 | 20.2 | 20.3 | 20.7 | 21.2 |
| | 8H | 19.8 | 20.2 | 20.3 | 20.7 | 21.2 | 19.8 | 20.2 | 20.3 | 20.7 | 21.2 |
| | 12H | 19.8 | 20.1 | 20.3 | 20.6 | 21.2 | 19.8 | 20.1 | 20.3 | 20.6 | 21.2 |
| 12H | 4H | 19.6 | 20.1 | 20.1 | 20.5 | 21.0 | 19.6 | 20.1 | 20.1 | 20.5 | 21.0 |
| | 6H | 19.7 | 20.1 | 20.3 | 20.6 | 21.1 | 19.7 | 20.1 | 20.3 | 20.6 | 21.1 |
| | 8H | 19.8 | 20.1 | 20.3 | 20.6 | 21.2 | 19.8 | 20.1 | 20.3 | 20.6 | 21.2 |

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 875.86 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.)