



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12316380.12
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01-24-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD
 [LUMINAIRE] Black formed aluminum housing, clear glass
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 826 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 59 |
| Total Luminaire Watts | 13.9 |
| 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 | 19116 | 19116 | 19116 |
| 55 | 15435 | 15435 | 15435 |
| 65 | 9985 | 9985 | 9985 |
| 75 | 5568 | 5568 | 5568 |
| 85 | 2860 | 2860 | 2860 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 663.833 |
| 0.5 | 663.833 |
| 1.0 | 663.208 |
| 1.5 | 661.959 |
| 2.0 | 660.710 |
| 2.5 | 659.461 |
| 3.0 | 657.588 |
| 3.5 | 655.714 |
| 4.0 | 653.841 |
| 4.5 | 651.343 |
| 5.0 | 649.469 |
| 5.5 | 646.971 |
| 6.0 | 644.473 |
| 6.5 | 641.975 |
| 7.0 | 639.478 |
| 7.5 | 636.980 |
| 8.0 | 634.482 |
| 8.5 | 631.359 |
| 9.0 | 628.861 |
| 9.5 | 626.363 |
| 10.0 | 623.990 |
| 10.5 | 621.430 |
| 11.0 | 618.807 |
| 11.5 | 616.247 |
| 12.0 | 613.811 |
| 12.5 | 611.375 |
| 13.0 | 608.940 |
| 13.5 | 606.442 |
| 14.0 | 603.944 |
| 14.5 | 601.446 |
| 15.0 | 598.886 |
| 15.5 | 596.263 |
| 16.0 | 593.515 |
| 16.5 | 590.767 |
| 17.0 | 587.957 |
| 17.5 | 584.960 |
| 18.0 | 581.775 |
| 18.5 | 578.340 |
| 19.0 | 575.030 |
| 19.5 | 571.471 |
| 20.0 | 567.599 |
| 20.5 | 563.165 |
| 21.0 | 558.044 |
| 21.5 | 552.486 |
| 22.0 | 546.116 |
| 22.5 | 539.060 |
| 23.0 | 531.066 |
| 23.5 | 522.073 |
| 24.0 | 512.207 |
| 24.5 | 501.028 |
| 25.0 | 488.538 |
| 25.5 | 474.737 |
| 26.0 | 459.812 |
| 26.5 | 443.950 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 427.276 |
| 27.5 | 410.352 |
| 28.0 | 392.617 |
| 28.5 | 375.069 |
| 29.0 | 357.583 |
| 29.5 | 340.097 |
| 30.0 | 322.924 |
| 30.5 | 306.062 |
| 31.0 | 290.138 |
| 31.5 | 274.713 |
| 32.0 | 260.162 |
| 32.5 | 246.611 |
| 33.0 | 234.059 |
| 33.5 | 222.756 |
| 34.0 | 212.576 |
| 34.5 | 203.709 |
| 35.0 | 195.902 |
| 35.5 | 189.283 |
| 36.0 | 183.475 |
| 36.5 | 178.604 |
| 37.0 | 174.295 |
| 37.5 | 170.611 |
| 38.0 | 167.238 |
| 38.5 | 164.241 |
| 39.0 | 161.556 |
| 39.5 | 159.120 |
| 40.0 | 156.934 |
| 40.5 | 154.873 |
| 41.0 | 152.875 |
| 41.5 | 151.064 |
| 42.0 | 149.253 |
| 42.5 | 147.567 |
| 43.0 | 145.881 |
| 43.5 | 144.132 |
| 44.0 | 142.384 |
| 44.5 | 140.635 |
| 45.0 | 138.824 |
| 45.5 | 136.951 |
| 46.0 | 135.015 |
| 46.5 | 133.016 |
| 47.0 | 130.956 |
| 47.5 | 128.832 |
| 48.0 | 126.709 |
| 48.5 | 124.461 |
| 49.0 | 122.150 |
| 49.5 | 119.715 |
| 50.0 | 117.279 |
| 50.5 | 114.781 |
| 51.0 | 112.158 |
| 51.5 | 109.598 |
| 52.0 | 106.975 |
| 52.5 | 104.352 |
| 53.0 | 101.854 |
| 53.5 | 99.107 |
| 54.0 | 96.359 |
| 54.5 | 93.611 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 90.926 |
| 55.5 | 88.178 |
| 56.0 | 85.493 |
| 56.5 | 82.870 |
| 57.0 | 80.247 |
| 57.5 | 77.624 |
| 58.0 | 75.064 |
| 58.5 | 72.566 |
| 59.0 | 70.068 |
| 59.5 | 67.632 |
| 60.0 | 65.197 |
| 60.5 | 62.824 |
| 61.0 | 60.513 |
| 61.5 | 58.202 |
| 62.0 | 56.017 |
| 62.5 | 53.769 |
| 63.0 | 51.645 |
| 63.5 | 49.460 |
| 64.0 | 47.399 |
| 64.5 | 45.338 |
| 65.0 | 43.340 |
| 65.5 | 41.341 |
| 66.0 | 39.405 |
| 66.5 | 37.532 |
| 67.0 | 35.721 |
| 67.5 | 33.910 |
| 68.0 | 32.161 |
| 68.5 | 30.413 |
| 69.0 | 28.727 |
| 69.5 | 27.103 |
| 70.0 | 25.604 |
| 70.5 | 24.168 |
| 71.0 | 22.856 |
| 71.5 | 21.607 |
| 72.0 | 20.421 |
| 72.5 | 19.297 |
| 73.0 | 18.235 |
| 73.5 | 17.298 |
| 74.0 | 16.362 |
| 74.5 | 15.550 |
| 75.0 | 14.800 |
| 75.5 | 14.113 |
| 76.0 | 13.364 |
| 76.5 | 12.677 |
| 77.0 | 11.990 |
| 77.5 | 11.303 |
| 78.0 | 10.679 |
| 78.5 | 9.992 |
| 79.0 | 9.367 |
| 79.5 | 8.743 |
| 80.0 | 8.118 |
| 80.5 | 7.494 |
| 81.0 | 6.932 |
| 81.5 | 6.370 |
| 82.0 | 5.745 |
| 82.5 | 5.246 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 4.684 |
| 83.5 | 4.122 |
| 84.0 | 3.622 |
| 84.5 | 3.060 |
| 85.0 | 2.560 |
| 85.5 | 2.123 |
| 86.0 | 1.686 |
| 86.5 | 1.374 |
| 87.0 | 1.062 |
| 87.5 | 0.812 |
| 88.0 | 0.562 |
| 88.5 | 0.375 |
| 89.0 | 0.187 |
| 89.5 | 0.062 |
| 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 : 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD_.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 : 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD_.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
PHOTOMETRIC FILENAME : 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD_.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 : 4DR-TL-L15-835-DIM-UNV-RW-OF-CS-AD_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 229.78 | N.A. | 27.80 |
| 0-30 | 444.64 | N.A. | 53.80 |
| 0-40 | 575.58 | N.A. | 69.60 |
| 0-60 | 763.31 | N.A. | 92.40 |
| 0-80 | 823.04 | N.A. | 99.60 |
| 0-90 | 826.42 | N.A. | 100.00 |
| 10-90 | 765.28 | N.A. | 92.60 |
| 20-40 | 345.81 | N.A. | 41.80 |
| 20-50 | 452.34 | N.A. | 54.70 |
| 40-70 | 231.15 | N.A. | 28.00 |
| 60-80 | 59.73 | N.A. | 7.20 |
| 70-80 | 16.31 | N.A. | 2.00 |
| 80-90 | 3.38 | 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 | 826.42 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 61.14 |
| 10-20 | 168.64 |
| 20-30 | 214.87 |
| 30-40 | 130.94 |
| 40-50 | 106.54 |
| 50-60 | 81.19 |
| 60-70 | 43.42 |
| 70-80 | 16.31 |
| 80-90 | 3.38 |
| 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 | 98 | 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 | 81 | 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 | 76 | 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 | 52 | 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

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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

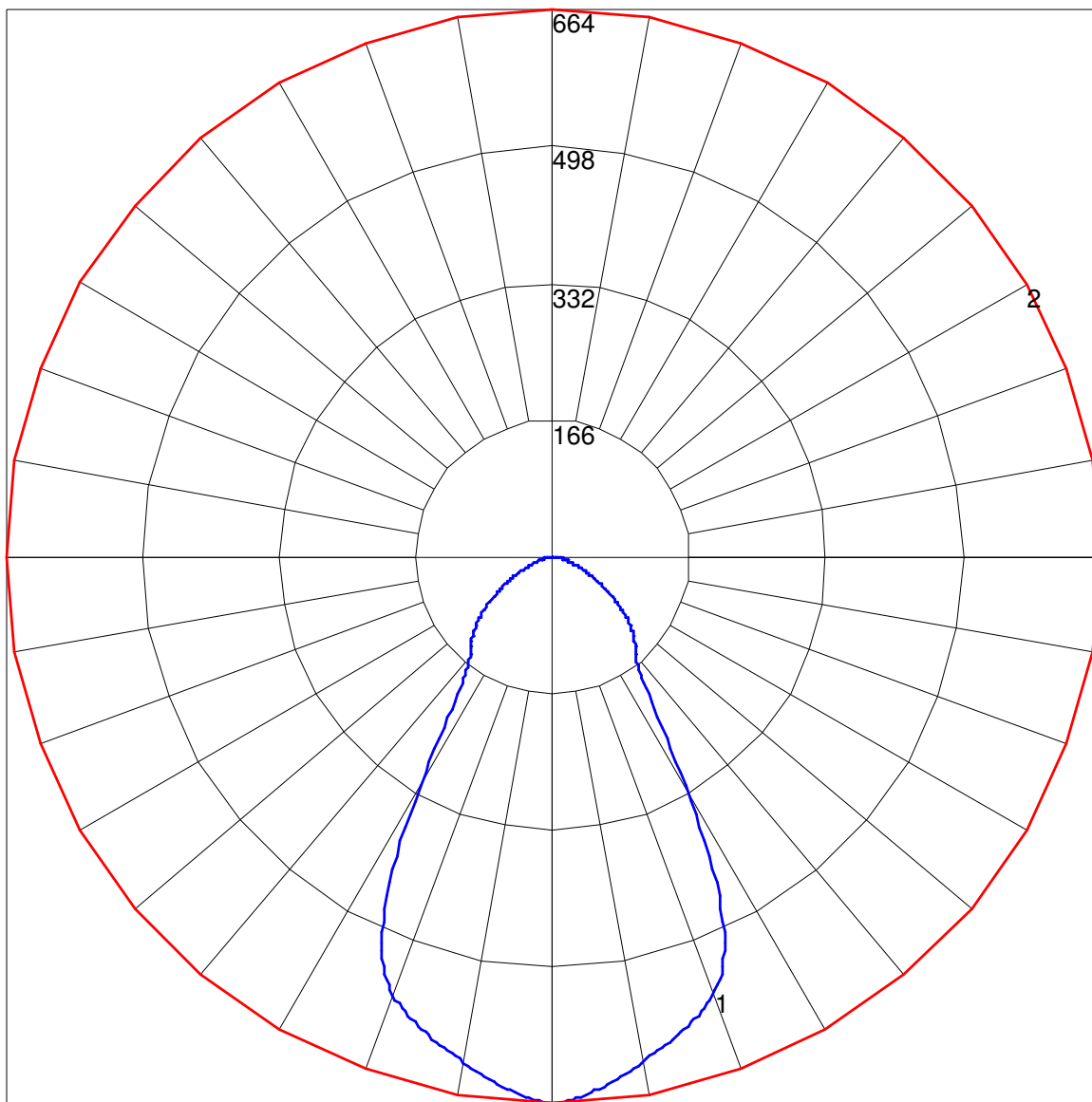
| X=2H | Y=2H | 19.0 | 20.3 | 19.4 | 20.6 | 20.9 | 19.0 | 20.3 | 19.4 | 20.6 | 20.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 19.8 | 20.9 | 20.1 | 21.3 | 21.6 | 19.8 | 20.9 | 20.1 | 21.3 | 21.6 |
| | 4H | 19.9 | 21.0 | 20.3 | 21.4 | 21.7 | 19.9 | 21.0 | 20.3 | 21.4 | 21.7 |
| | 6H | 20.0 | 21.0 | 20.5 | 21.4 | 21.8 | 20.0 | 21.0 | 20.5 | 21.4 | 21.8 |
| | 8H | 20.1 | 21.0 | 20.5 | 21.4 | 21.8 | 20.1 | 21.0 | 20.5 | 21.4 | 21.8 |
| | 12H | 20.0 | 20.9 | 20.5 | 21.3 | 21.8 | 20.0 | 20.9 | 20.5 | 21.3 | 21.8 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.3 | 20.3 | 19.7 | 20.7 | 21.1 | 19.3 | 20.3 | 19.7 | 20.7 | 21.1 |
| | 3H | 20.2 | 21.1 | 20.6 | 21.5 | 21.9 | 20.2 | 21.1 | 20.6 | 21.5 | 21.9 |
| | 4H | 20.4 | 21.2 | 20.8 | 21.6 | 22.1 | 20.4 | 21.2 | 20.8 | 21.6 | 22.1 |
| | 6H | 20.6 | 21.3 | 21.0 | 21.7 | 22.2 | 20.6 | 21.3 | 21.0 | 21.7 | 22.2 |
| | 8H | 20.6 | 21.2 | 21.1 | 21.7 | 22.2 | 20.6 | 21.2 | 21.1 | 21.7 | 22.2 |
| | 12H | 20.6 | 21.2 | 21.1 | 21.7 | 22.1 | 20.6 | 21.2 | 21.1 | 21.7 | 22.1 |
| 8H | 4H | 20.5 | 21.1 | 20.9 | 21.5 | 22.0 | 20.5 | 21.1 | 20.9 | 21.5 | 22.0 |
| | 6H | 20.7 | 21.2 | 21.2 | 21.7 | 22.2 | 20.7 | 21.2 | 21.2 | 21.7 | 22.2 |
| | 8H | 20.7 | 21.2 | 21.3 | 21.7 | 22.2 | 20.7 | 21.2 | 21.3 | 21.7 | 22.2 |
| | 12H | 20.8 | 21.2 | 21.3 | 21.7 | 22.2 | 20.8 | 21.2 | 21.3 | 21.7 | 22.2 |
| 12H | 4H | 20.4 | 21.0 | 20.9 | 21.5 | 21.9 | 20.4 | 21.0 | 20.9 | 21.5 | 21.9 |
| | 6H | 20.7 | 21.1 | 21.2 | 21.6 | 22.1 | 20.7 | 21.1 | 21.2 | 21.6 | 22.1 |
| | 8H | 20.7 | 21.1 | 21.3 | 21.6 | 22.2 | 20.7 | 21.1 | 21.3 | 21.6 | 22.2 |

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 663.833 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.)