



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12316380.10

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 10 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V4DR-L20-835-DIM-UNV-LN-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned enclosure

[LAMP] One white LED

[_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 | 2741 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 88 |
| Total Luminaire Watts | 31.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.44 |
| Spacing Criterion (90-270) | 0.44 |
| Spacing Criterion (Diagonal) | 0.44 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.35 ft (Diameter) |
| Luminous Width (90-270) | 0.35 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 | 18000 | 18000 | 18000 |
| 55 | 13502 | 13502 | 13502 |
| 65 | 11173 | 11173 | 11173 |
| 75 | 9090 | 9090 | 9090 |
| 85 | 5061 | 5061 | 5061 |

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CANDELA TABULATION

| | <u>0</u> |
|------|-----------|
| 0.0 | 10295.574 |
| 0.5 | 10283.611 |
| 1.0 | 10249.218 |
| 1.5 | 10195.385 |
| 2.0 | 10119.121 |
| 2.5 | 10024.914 |
| 3.0 | 9911.266 |
| 3.5 | 9779.674 |
| 4.0 | 9630.138 |
| 4.5 | 9465.648 |
| 5.0 | 9287.700 |
| 5.5 | 9094.798 |
| 6.0 | 8888.438 |
| 6.5 | 8665.629 |
| 7.0 | 8430.857 |
| 7.5 | 8185.617 |
| 8.0 | 7925.424 |
| 8.5 | 7657.754 |
| 9.0 | 7381.112 |
| 9.5 | 7098.488 |
| 10.0 | 6811.378 |
| 10.5 | 6519.783 |
| 11.0 | 6222.205 |
| 11.5 | 5924.628 |
| 12.0 | 5630.042 |
| 12.5 | 5336.951 |
| 13.0 | 5048.345 |
| 13.5 | 4764.227 |
| 14.0 | 4487.584 |
| 14.5 | 4219.914 |
| 15.0 | 3962.712 |
| 15.5 | 3714.482 |
| 16.0 | 3476.719 |
| 16.5 | 3249.424 |
| 17.0 | 3035.587 |
| 17.5 | 2830.722 |
| 18.0 | 2637.820 |
| 18.5 | 2456.881 |
| 19.0 | 2287.905 |
| 19.5 | 2130.892 |
| 20.0 | 1982.851 |
| 20.5 | 1842.287 |
| 21.0 | 1710.695 |
| 21.5 | 1591.066 |
| 22.0 | 1475.774 |
| 22.5 | 1368.556 |
| 23.0 | 1268.367 |
| 23.5 | 1175.654 |
| 24.0 | 1089.372 |
| 24.5 | 1008.622 |
| 25.0 | 934.303 |
| 25.5 | 865.815 |
| 26.0 | 802.262 |
| 26.5 | 743.943 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES****CANDELA TABULATION - (Cont.)**

| | |
|------|---------|
| 27.0 | 690.110 |
| 27.5 | 640.763 |
| 28.0 | 595.603 |
| 28.5 | 554.182 |
| 29.0 | 516.199 |
| 29.5 | 481.208 |
| 30.0 | 449.357 |
| 30.5 | 420.047 |
| 31.0 | 393.131 |
| 31.5 | 368.607 |
| 32.0 | 346.326 |
| 32.5 | 325.541 |
| 33.0 | 306.549 |
| 33.5 | 289.054 |
| 34.0 | 273.203 |
| 34.5 | 258.548 |
| 35.0 | 245.240 |
| 35.5 | 233.127 |
| 36.0 | 221.762 |
| 36.5 | 211.444 |
| 37.0 | 202.024 |
| 37.5 | 193.201 |
| 38.0 | 185.275 |
| 38.5 | 177.948 |
| 39.0 | 171.070 |
| 39.5 | 164.639 |
| 40.0 | 158.658 |
| 40.5 | 153.125 |
| 41.0 | 148.041 |
| 41.5 | 143.256 |
| 42.0 | 138.770 |
| 42.5 | 134.583 |
| 43.0 | 130.545 |
| 43.5 | 126.807 |
| 44.0 | 123.218 |
| 44.5 | 119.779 |
| 45.0 | 116.489 |
| 45.5 | 113.498 |
| 46.0 | 110.507 |
| 46.5 | 107.666 |
| 47.0 | 104.974 |
| 47.5 | 102.283 |
| 48.0 | 99.741 |
| 48.5 | 97.199 |
| 49.0 | 94.806 |
| 49.5 | 92.413 |
| 50.0 | 90.170 |
| 50.5 | 88.077 |
| 51.0 | 85.834 |
| 51.5 | 83.890 |
| 52.0 | 81.796 |
| 52.5 | 79.852 |
| 53.0 | 78.058 |
| 53.5 | 76.114 |
| 54.0 | 74.320 |
| 54.5 | 72.675 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES****CANDELA TABULATION - (Cont.)**

| | |
|------|--------|
| 55.0 | 70.880 |
| 55.5 | 69.235 |
| 56.0 | 67.590 |
| 56.5 | 65.946 |
| 57.0 | 64.450 |
| 57.5 | 62.955 |
| 58.0 | 61.459 |
| 58.5 | 59.964 |
| 59.0 | 58.618 |
| 59.5 | 57.272 |
| 60.0 | 55.927 |
| 60.5 | 54.581 |
| 61.0 | 53.235 |
| 61.5 | 51.889 |
| 62.0 | 50.543 |
| 62.5 | 49.347 |
| 63.0 | 48.001 |
| 63.5 | 46.805 |
| 64.0 | 45.609 |
| 64.5 | 44.412 |
| 65.0 | 43.216 |
| 65.5 | 42.020 |
| 66.0 | 40.823 |
| 66.5 | 39.627 |
| 67.0 | 38.580 |
| 67.5 | 37.384 |
| 68.0 | 36.337 |
| 68.5 | 35.141 |
| 69.0 | 34.094 |
| 69.5 | 32.898 |
| 70.0 | 31.851 |
| 70.5 | 30.804 |
| 71.0 | 29.758 |
| 71.5 | 28.711 |
| 72.0 | 27.664 |
| 72.5 | 26.617 |
| 73.0 | 25.571 |
| 73.5 | 24.524 |
| 74.0 | 23.477 |
| 74.5 | 22.580 |
| 75.0 | 21.533 |
| 75.5 | 20.486 |
| 76.0 | 19.589 |
| 76.5 | 18.543 |
| 77.0 | 17.645 |
| 77.5 | 16.599 |
| 78.0 | 15.701 |
| 78.5 | 14.804 |
| 79.0 | 13.907 |
| 79.5 | 13.010 |
| 80.0 | 12.112 |
| 80.5 | 11.215 |
| 81.0 | 10.318 |
| 81.5 | 9.570 |
| 82.0 | 8.673 |
| 82.5 | 7.925 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES****CANDELA TABULATION - (Cont.)**

| | |
|-------|-------|
| 83.0 | 7.028 |
| 83.5 | 6.281 |
| 84.0 | 5.533 |
| 84.5 | 4.785 |
| 85.0 | 4.037 |
| 85.5 | 3.439 |
| 86.0 | 2.991 |
| 86.5 | 2.393 |
| 87.0 | 1.944 |
| 87.5 | 1.645 |
| 88.0 | 1.196 |
| 88.5 | 0.897 |
| 89.0 | 0.598 |
| 89.5 | 0.449 |
| 90.0 | 0.299 |
| 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 : V4DR-L20-835-DIM-UNV-LN-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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-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
PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.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 : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1897.47 | N.A. | 69.20 |
| 0-30 | 2352.01 | N.A. | 85.80 |
| 0-40 | 2514.58 | N.A. | 91.70 |
| 0-60 | 2670.00 | N.A. | 97.40 |
| 0-80 | 2735.78 | N.A. | 99.80 |
| 0-90 | 2741.06 | N.A. | 100.00 |
| 10-90 | 1934.86 | N.A. | 70.60 |
| 20-40 | 617.11 | N.A. | 22.50 |
| 20-50 | 708.60 | N.A. | 25.90 |
| 40-70 | 198.36 | N.A. | 7.20 |
| 60-80 | 65.79 | N.A. | 2.40 |
| 70-80 | 22.85 | N.A. | 0.80 |
| 80-90 | 5.28 | N.A. | 0.20 |
| 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 | 2741.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 806.21 |
| 10-20 | 1091.26 |
| 20-30 | 454.54 |
| 30-40 | 162.57 |
| 40-50 | 91.49 |
| 50-60 | 63.93 |
| 60-70 | 42.94 |
| 70-80 | 22.85 |
| 80-90 | 5.28 |
| 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 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.IES

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 | 178 | 178 | 178 | 178 | 174 | 174 | 174 | 174 | 166 | 166 | 166 | 159 | 159 | 159 | 153 | 153 | 153 | 150 |
| 1 | 171 | 167 | 164 | 161 | 167 | 164 | 161 | 158 | 158 | 155 | 153 | 152 | 150 | 149 | 147 | 146 | 145 | 142 |
| 2 | 164 | 157 | 152 | 148 | 161 | 155 | 150 | 146 | 150 | 146 | 143 | 146 | 143 | 140 | 142 | 139 | 137 | 135 |
| 3 | 157 | 149 | 143 | 138 | 155 | 147 | 141 | 137 | 143 | 139 | 135 | 140 | 136 | 133 | 137 | 133 | 131 | 128 |
| 4 | 151 | 142 | 135 | 130 | 149 | 140 | 134 | 129 | 137 | 132 | 128 | 135 | 130 | 126 | 132 | 128 | 125 | 123 |
| 5 | 146 | 136 | 129 | 123 | 144 | 134 | 128 | 123 | 132 | 126 | 122 | 130 | 125 | 121 | 127 | 123 | 120 | 118 |
| 6 | 141 | 130 | 123 | 118 | 139 | 129 | 122 | 117 | 127 | 121 | 116 | 125 | 120 | 116 | 123 | 119 | 115 | 113 |
| 7 | 136 | 125 | 118 | 113 | 134 | 124 | 117 | 112 | 122 | 116 | 112 | 121 | 115 | 111 | 119 | 114 | 111 | 109 |
| 8 | 132 | 121 | 113 | 108 | 130 | 120 | 113 | 108 | 118 | 112 | 108 | 117 | 111 | 107 | 116 | 111 | 107 | 105 |
| 9 | 128 | 116 | 109 | 105 | 126 | 116 | 109 | 104 | 114 | 108 | 104 | 113 | 108 | 104 | 112 | 107 | 103 | 102 |
| 10 | 124 | 113 | 106 | 101 | 123 | 112 | 105 | 101 | 111 | 105 | 101 | 110 | 104 | 101 | 109 | 104 | 100 | 99 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L20-835-DIM-UNV-LN-OF-WH_.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

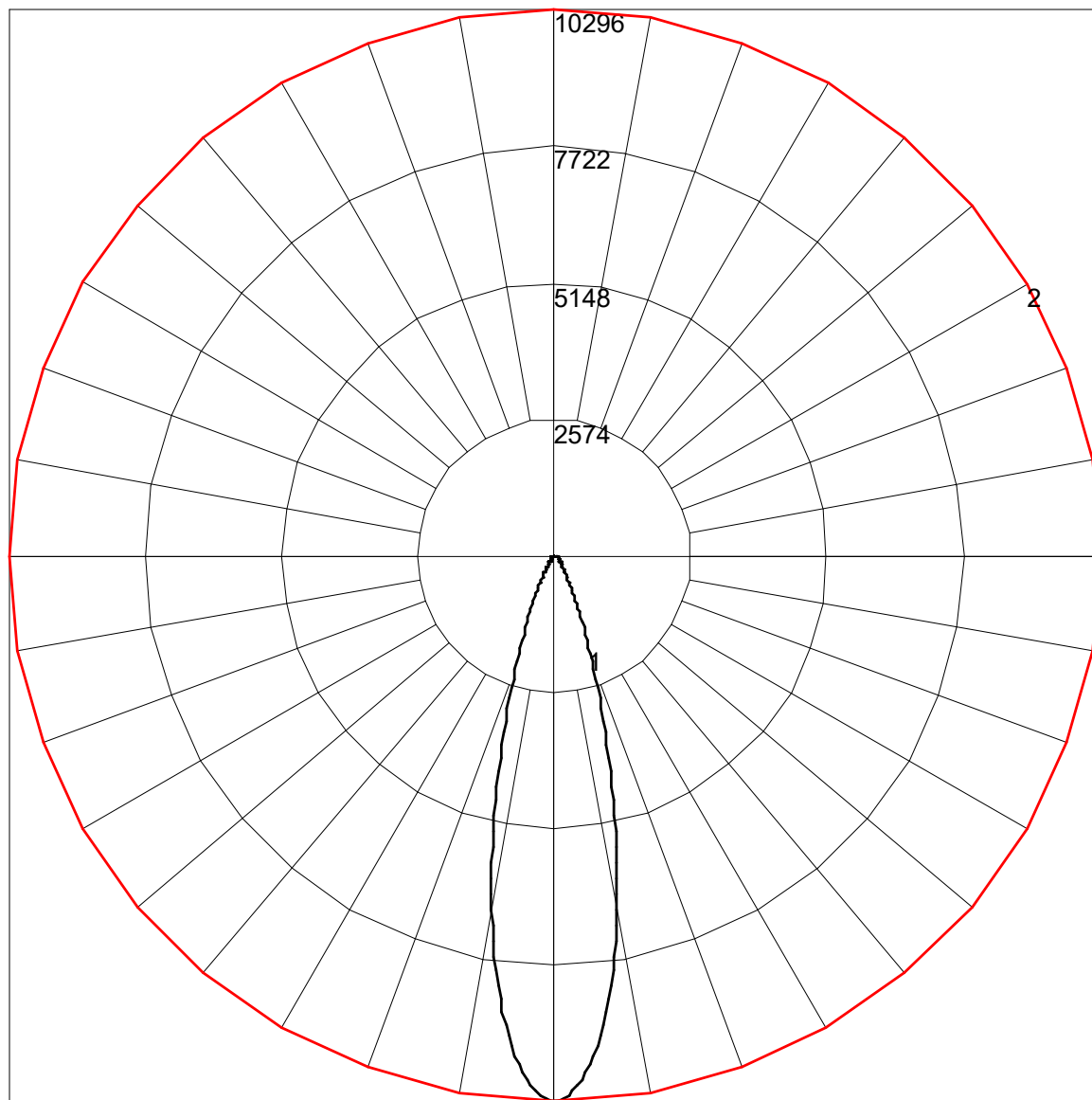
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 12.7 | 13.7 | 13.1 | 14.0 | 14.4 | 12.7 | 13.7 | 13.1 | 14.0 | 14.4 |
| | 3H | 14.2 | 15.1 | 14.6 | 15.4 | 15.8 | 14.2 | 15.1 | 14.6 | 15.4 | 15.8 |
| | 4H | 14.7 | 15.5 | 15.1 | 15.9 | 16.3 | 14.7 | 15.5 | 15.1 | 15.9 | 16.3 |
| | 6H | 15.0 | 15.8 | 15.4 | 16.1 | 16.5 | 15.0 | 15.8 | 15.4 | 16.1 | 16.5 |
| | 8H | 15.1 | 15.8 | 15.5 | 16.2 | 16.6 | 15.1 | 15.8 | 15.5 | 16.2 | 16.6 |
| | 12H | 15.1 | 15.8 | 15.6 | 16.2 | 16.6 | 15.1 | 15.8 | 15.6 | 16.2 | 16.6 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 13.2 | 14.0 | 13.6 | 14.3 | 14.7 | 13.2 | 14.0 | 13.6 | 14.3 | 14.7 |
| | 3H | 14.8 | 15.5 | 15.2 | 15.9 | 16.3 | 14.8 | 15.5 | 15.2 | 15.9 | 16.3 |
| | 4H | 15.4 | 16.0 | 15.9 | 16.4 | 16.9 | 15.4 | 16.0 | 15.9 | 16.4 | 16.9 |
| | 6H | 15.9 | 16.4 | 16.3 | 16.8 | 17.3 | 15.9 | 16.4 | 16.3 | 16.8 | 17.3 |
| | 8H | 16.0 | 16.4 | 16.5 | 16.9 | 17.4 | 16.0 | 16.4 | 16.5 | 16.9 | 17.4 |
| | 12H | 16.0 | 16.4 | 16.5 | 16.9 | 17.4 | 16.0 | 16.4 | 16.5 | 16.9 | 17.4 |
| 8H | 4H | 15.6 | 16.1 | 16.1 | 16.5 | 17.0 | 15.6 | 16.1 | 16.1 | 16.5 | 17.0 |
| | 6H | 16.1 | 16.5 | 16.7 | 17.0 | 17.5 | 16.1 | 16.5 | 16.7 | 17.0 | 17.5 |
| | 8H | 16.3 | 16.6 | 16.8 | 17.1 | 17.6 | 16.3 | 16.6 | 16.8 | 17.1 | 17.6 |
| | 12H | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 | 16.4 | 16.7 | 16.9 | 17.2 | 17.7 |
| 12H | 4H | 15.6 | 16.0 | 16.1 | 16.5 | 16.9 | 15.6 | 16.0 | 16.1 | 16.5 | 16.9 |
| | 6H | 16.2 | 16.5 | 16.7 | 16.9 | 17.5 | 16.2 | 16.5 | 16.7 | 16.9 | 17.5 |
| | 8H | 16.3 | 16.6 | 16.9 | 17.1 | 17.7 | 16.3 | 16.6 | 16.9 | 17.1 | 17.7 |

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 10295.574 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.)