



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-840-DIM-UNV-SW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]Gen From 12326812.11
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 10/01/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L20-835-DIM-UNV-SW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl
 [MORE] astic lens enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1328 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 68 |
| Total Luminaire Watts | 19.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.94 |
| Spacing Criterion (90-270) | 0.94 |
| Spacing Criterion (Diagonal) | 1.02 |
| 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 | 23737 | 23737 | 23737 |
| 55 | 21634 | 21634 | 21634 |
| 65 | 21437 | 21437 | 21437 |
| 75 | 22384 | 22384 | 22384 |
| 85 | 18282 | 18282 | 18282 |

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CANDELA TABULATION

| | |
|------|----------|
| | <u>0</u> |
| 0.0 | 747.368 |
| 0.5 | 747.167 |
| 1.0 | 746.666 |
| 1.5 | 745.764 |
| 2.0 | 744.462 |
| 2.5 | 742.858 |
| 3.0 | 740.954 |
| 3.5 | 738.850 |
| 4.0 | 736.445 |
| 4.5 | 733.940 |
| 5.0 | 731.434 |
| 5.5 | 728.628 |
| 6.0 | 725.622 |
| 6.5 | 722.516 |
| 7.0 | 719.108 |
| 7.5 | 715.601 |
| 8.0 | 711.893 |
| 8.5 | 707.985 |
| 9.0 | 703.977 |
| 9.5 | 699.768 |
| 10.0 | 695.459 |
| 10.5 | 690.949 |
| 11.0 | 686.239 |
| 11.5 | 681.229 |
| 12.0 | 676.118 |
| 12.5 | 670.707 |
| 13.0 | 665.195 |
| 13.5 | 659.383 |
| 14.0 | 653.371 |
| 14.5 | 647.258 |
| 15.0 | 640.844 |
| 15.5 | 634.331 |
| 16.0 | 627.717 |
| 16.5 | 621.003 |
| 17.0 | 614.289 |
| 17.5 | 607.474 |
| 18.0 | 600.660 |
| 18.5 | 593.745 |
| 19.0 | 586.931 |
| 19.5 | 580.017 |
| 20.0 | 573.002 |
| 20.5 | 566.087 |
| 21.0 | 558.973 |
| 21.5 | 551.757 |
| 22.0 | 544.442 |
| 22.5 | 536.926 |
| 23.0 | 529.310 |
| 23.5 | 521.594 |
| 24.0 | 513.778 |
| 24.5 | 505.861 |
| 25.0 | 497.944 |
| 25.5 | 490.028 |
| 26.0 | 482.111 |
| 26.5 | 474.295 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 466.579 |
| 27.5 | 458.863 |
| 28.0 | 451.347 |
| 28.5 | 443.831 |
| 29.0 | 436.616 |
| 29.5 | 429.401 |
| 30.0 | 422.386 |
| 30.5 | 415.471 |
| 31.0 | 408.557 |
| 31.5 | 401.843 |
| 32.0 | 395.129 |
| 32.5 | 388.515 |
| 33.0 | 381.901 |
| 33.5 | 375.488 |
| 34.0 | 368.974 |
| 34.5 | 362.761 |
| 35.0 | 356.648 |
| 35.5 | 350.535 |
| 36.0 | 344.523 |
| 36.5 | 338.610 |
| 37.0 | 332.898 |
| 37.5 | 327.287 |
| 38.0 | 321.775 |
| 38.5 | 316.364 |
| 39.0 | 311.153 |
| 39.5 | 306.042 |
| 40.0 | 301.031 |
| 40.5 | 296.121 |
| 41.0 | 291.411 |
| 41.5 | 286.802 |
| 42.0 | 282.292 |
| 42.5 | 277.883 |
| 43.0 | 273.574 |
| 43.5 | 269.365 |
| 44.0 | 265.156 |
| 44.5 | 261.148 |
| 45.0 | 257.139 |
| 45.5 | 253.231 |
| 46.0 | 249.423 |
| 46.5 | 245.615 |
| 47.0 | 241.807 |
| 47.5 | 238.200 |
| 48.0 | 234.492 |
| 48.5 | 230.884 |
| 49.0 | 227.377 |
| 49.5 | 223.970 |
| 50.0 | 220.563 |
| 50.5 | 217.256 |
| 51.0 | 213.949 |
| 51.5 | 210.742 |
| 52.0 | 207.535 |
| 52.5 | 204.429 |
| 53.0 | 201.322 |
| 53.5 | 198.516 |
| 54.0 | 195.811 |
| 54.5 | 193.005 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 55.0 | 190.099 |
| 55.5 | 187.193 |
| 56.0 | 184.387 |
| 56.5 | 181.681 |
| 57.0 | 179.376 |
| 57.5 | 176.771 |
| 58.0 | 174.065 |
| 58.5 | 171.460 |
| 59.0 | 168.854 |
| 59.5 | 166.249 |
| 60.0 | 163.643 |
| 60.5 | 161.138 |
| 61.0 | 158.633 |
| 61.5 | 156.127 |
| 62.0 | 153.622 |
| 62.5 | 151.117 |
| 63.0 | 148.612 |
| 63.5 | 146.207 |
| 64.0 | 143.701 |
| 64.5 | 141.196 |
| 65.0 | 138.791 |
| 65.5 | 136.286 |
| 66.0 | 133.781 |
| 66.5 | 131.275 |
| 67.0 | 128.770 |
| 67.5 | 126.365 |
| 68.0 | 123.860 |
| 68.5 | 121.455 |
| 69.0 | 118.950 |
| 69.5 | 116.544 |
| 70.0 | 114.039 |
| 70.5 | 111.634 |
| 71.0 | 109.229 |
| 71.5 | 106.724 |
| 72.0 | 104.319 |
| 72.5 | 101.814 |
| 73.0 | 99.298 |
| 73.5 | 96.733 |
| 74.0 | 94.117 |
| 74.5 | 91.452 |
| 75.0 | 88.756 |
| 75.5 | 86.020 |
| 76.0 | 83.225 |
| 76.5 | 80.379 |
| 77.0 | 77.473 |
| 77.5 | 74.516 |
| 78.0 | 71.490 |
| 78.5 | 68.414 |
| 79.0 | 65.307 |
| 79.5 | 62.130 |
| 80.0 | 58.914 |
| 80.5 | 55.657 |
| 81.0 | 52.350 |
| 81.5 | 48.993 |
| 82.0 | 45.586 |
| 82.5 | 42.128 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|--------|
| 83.0 | 38.631 |
| 83.5 | 35.114 |
| 84.0 | 31.556 |
| 84.5 | 27.989 |
| 85.0 | 24.411 |
| 85.5 | 20.844 |
| 86.0 | 17.306 |
| 86.5 | 13.929 |
| 87.0 | 10.933 |
| 87.5 | 8.498 |
| 88.0 | 6.383 |
| 88.5 | 4.509 |
| 89.0 | 2.846 |
| 89.5 | 1.593 |
| 90.0 | 0.812 |
| 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 : 6DR-TL-L20-840-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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L20-840-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
PHOTOMETRIC FILENAME : 6DR-TL-L20-840-DIM-UNV-SW-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
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 247.78 | N.A. | 18.70 |
| 0-30 | 476.01 | N.A. | 35.80 |
| 0-40 | 699.52 | N.A. | 52.70 |
| 0-60 | 1069.29 | N.A. | 80.50 |
| 0-80 | 1299.54 | N.A. | 97.90 |
| 0-90 | 1327.77 | N.A. | 100.00 |
| 10-90 | 1259.1 | N.A. | 94.80 |
| 20-40 | 451.74 | N.A. | 34.00 |
| 20-50 | 650.90 | N.A. | 49.00 |
| 40-70 | 507.18 | N.A. | 38.20 |
| 60-80 | 230.25 | N.A. | 17.30 |
| 70-80 | 92.85 | N.A. | 7.00 |
| 80-90 | 28.23 | N.A. | 2.10 |
| 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 | 1327.8 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 68.67 |
| 10-20 | 179.11 |
| 20-30 | 228.24 |
| 30-40 | 223.50 |
| 40-50 | 199.17 |
| 50-60 | 170.61 |
| 60-70 | 137.41 |
| 70-80 | 92.85 |
| 80-90 | 28.23 |
| 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 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 70 | 63 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 46 | 58 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 44 | 42 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

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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 | 21.4 | 22.9 | 21.7 | 23.2 | 23.5 | 21.4 | 22.9 | 21.7 | 23.2 | 23.5 |
| | 3H | 23.5 | 24.9 | 23.8 | 25.2 | 25.6 | 23.5 | 24.9 | 23.8 | 25.2 | 25.6 |
| | 4H | 24.4 | 25.7 | 24.8 | 26.1 | 26.4 | 24.4 | 25.7 | 24.8 | 26.1 | 26.4 |
| | 6H | 25.1 | 26.4 | 25.5 | 26.7 | 27.1 | 25.1 | 26.4 | 25.5 | 26.7 | 27.1 |
| | 8H | 25.4 | 26.6 | 25.8 | 27.0 | 27.4 | 25.4 | 26.6 | 25.8 | 27.0 | 27.4 |
| | 12H | 25.5 | 26.7 | 26.0 | 27.1 | 27.5 | 25.5 | 26.7 | 26.0 | 27.1 | 27.5 |

UGR Viewed Endwise

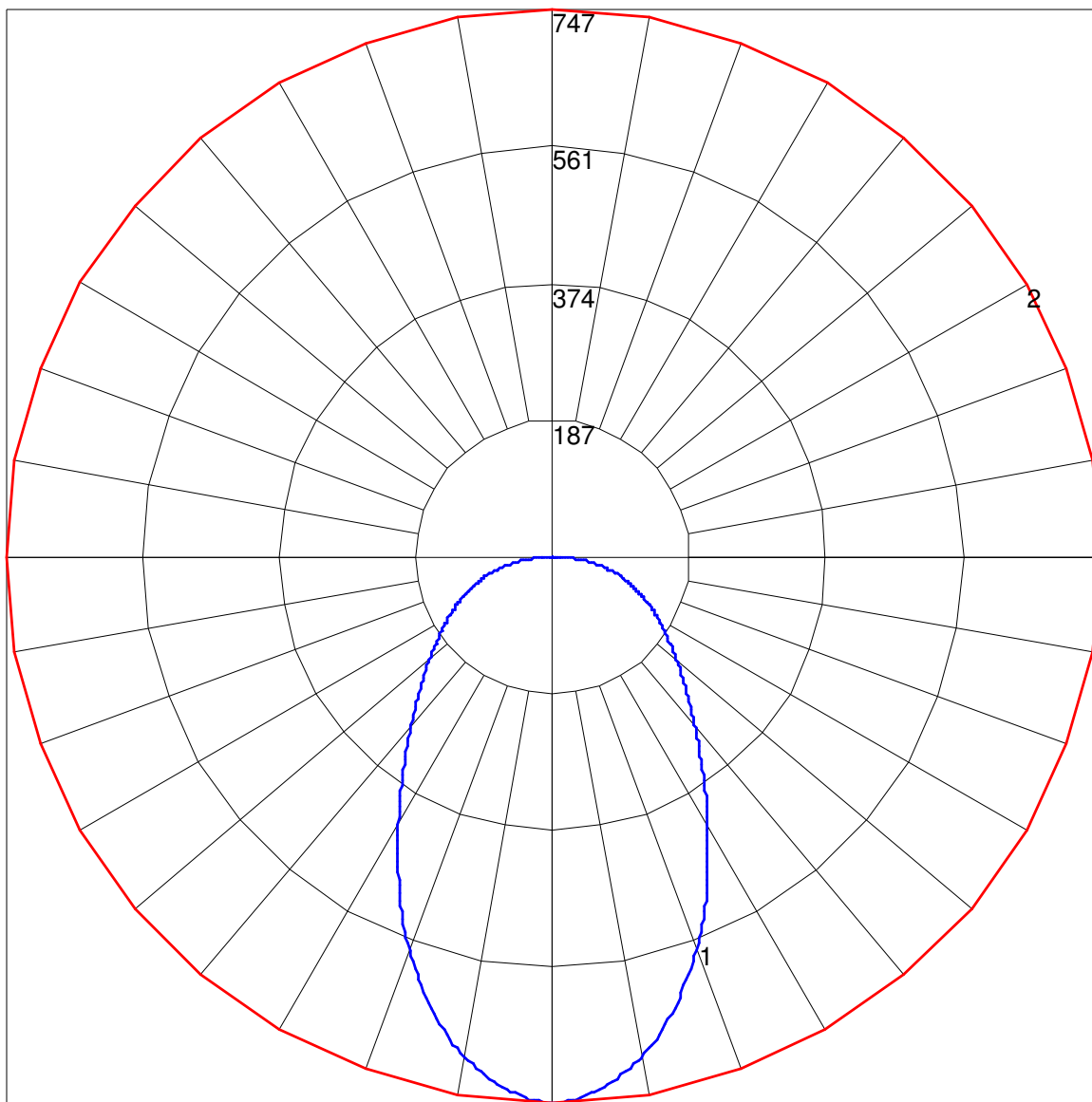
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 22.0 | 23.4 | 22.4 | 23.7 | 24.1 | 22.0 | 23.4 | 22.4 | 23.7 | 24.1 |
| | 3H | 24.4 | 25.5 | 24.8 | 25.9 | 26.3 | 24.4 | 25.5 | 24.8 | 25.9 | 26.3 |
| | 4H | 25.5 | 26.5 | 25.9 | 26.9 | 27.3 | 25.5 | 26.5 | 25.9 | 26.9 | 27.3 |
| | 6H | 26.4 | 27.3 | 26.8 | 27.7 | 28.2 | 26.4 | 27.3 | 26.8 | 27.7 | 28.2 |
| | 8H | 26.7 | 27.5 | 27.2 | 28.0 | 28.4 | 26.7 | 27.5 | 27.2 | 28.0 | 28.4 |
| | 12H | 26.9 | 27.7 | 27.4 | 28.1 | 28.6 | 26.9 | 27.7 | 27.4 | 28.1 | 28.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 25.9 | 26.7 | 26.4 | 27.2 | 27.6 | 25.9 | 26.7 | 26.4 | 27.2 | 27.6 |
| | 6H | 27.0 | 27.6 | 27.5 | 28.1 | 28.6 | 27.0 | 27.6 | 27.5 | 28.1 | 28.6 |
| | 8H | 27.4 | 28.0 | 27.9 | 28.5 | 29.0 | 27.4 | 28.0 | 27.9 | 28.5 | 29.0 |
| | 12H | 27.7 | 28.2 | 28.2 | 28.7 | 29.3 | 27.7 | 28.2 | 28.2 | 28.7 | 29.3 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 25.9 | 26.7 | 26.4 | 27.2 | 27.6 | 25.9 | 26.7 | 26.4 | 27.2 | 27.6 |
| | 6H | 27.1 | 27.7 | 27.6 | 28.1 | 28.7 | 27.1 | 27.7 | 27.6 | 28.1 | 28.7 |
| | 8H | 27.5 | 28.1 | 28.0 | 28.6 | 29.1 | 27.5 | 28.1 | 28.0 | 28.6 | 29.1 |

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 747.368 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.)