



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PR-TL-L7-9DW-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12316380.29  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 12/12/2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 4PR-TL-L7-9DW-DIM-UNV-LW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas  
 [MORE] s patterned lens enclosure  
 [LAMP] One white LED  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 668                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 48                 |
| Total Luminaire Watts           | 14                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.88               |
| Spacing Criterion (90-270)      | 0.88               |
| Spacing Criterion (Diagonal)    | 1.00               |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 17152            | 17152             | 17152             |
| 55                  | 12342            | 12342             | 12342             |
| 65                  | 9805             | 9805              | 9805              |
| 75                  | 7998             | 7998              | 7998              |
| 85                  | 5903             | 5903              | 5903              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 534.765  |
| 0.5  | 534.400  |
| 1.0  | 533.305  |
| 1.5  | 531.115  |
| 2.0  | 528.195  |
| 2.5  | 524.544  |
| 3.0  | 520.164  |
| 3.5  | 515.419  |
| 4.0  | 510.308  |
| 4.5  | 504.468  |
| 5.0  | 498.262  |
| 5.5  | 492.057  |
| 6.0  | 485.851  |
| 6.5  | 478.916  |
| 7.0  | 472.345  |
| 7.5  | 465.410  |
| 8.0  | 458.839  |
| 8.5  | 451.904  |
| 9.0  | 445.698  |
| 9.5  | 439.493  |
| 10.0 | 433.287  |
| 10.5 | 427.447  |
| 11.0 | 421.972  |
| 11.5 | 416.496  |
| 12.0 | 411.386  |
| 12.5 | 406.640  |
| 13.0 | 401.895  |
| 13.5 | 397.515  |
| 14.0 | 393.499  |
| 14.5 | 389.484  |
| 15.0 | 385.834  |
| 15.5 | 382.184  |
| 16.0 | 378.898  |
| 16.5 | 375.613  |
| 17.0 | 373.058  |
| 17.5 | 370.138  |
| 18.0 | 367.948  |
| 18.5 | 365.392  |
| 19.0 | 363.202  |
| 19.5 | 361.231  |
| 20.0 | 359.442  |
| 20.5 | 357.690  |
| 21.0 | 355.865  |
| 21.5 | 354.076  |
| 22.0 | 352.142  |
| 22.5 | 350.134  |
| 23.0 | 348.054  |
| 23.5 | 345.827  |
| 24.0 | 343.454  |
| 24.5 | 340.863  |
| 25.0 | 338.015  |
| 25.5 | 335.022  |
| 26.0 | 331.810  |
| 26.5 | 328.415  |

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CANDELA TABULATION - (Cont.)

|      |         |
|------|---------|
| 27.0 | 324.801 |
| 27.5 | 321.115 |
| 28.0 | 317.209 |
| 28.5 | 313.157 |
| 29.0 | 308.996 |
| 29.5 | 304.688 |
| 30.0 | 300.089 |
| 30.5 | 295.161 |
| 31.0 | 290.051 |
| 31.5 | 284.831 |
| 32.0 | 279.282 |
| 32.5 | 273.624 |
| 33.0 | 267.784 |
| 33.5 | 261.652 |
| 34.0 | 255.264 |
| 34.5 | 248.584 |
| 35.0 | 241.831 |
| 35.5 | 234.822 |
| 36.0 | 227.631 |
| 36.5 | 220.184 |
| 37.0 | 212.665 |
| 37.5 | 205.182 |
| 38.0 | 197.662 |
| 38.5 | 190.033 |
| 39.0 | 182.477 |
| 39.5 | 175.031 |
| 40.0 | 167.913 |
| 40.5 | 160.795 |
| 41.0 | 153.969 |
| 41.5 | 147.471 |
| 42.0 | 141.339 |
| 42.5 | 135.498 |
| 43.0 | 129.913 |
| 43.5 | 124.693 |
| 44.0 | 119.802 |
| 44.5 | 115.239 |
| 45.0 | 111.005 |
| 45.5 | 107.099 |
| 46.0 | 103.485 |
| 46.5 | 100.163 |
| 47.0 | 97.061  |
| 47.5 | 94.214  |
| 48.0 | 91.549  |
| 48.5 | 89.030  |
| 49.0 | 86.694  |
| 49.5 | 84.467  |
| 50.0 | 82.350  |
| 50.5 | 80.306  |
| 51.0 | 78.408  |
| 51.5 | 76.583  |
| 52.0 | 74.831  |
| 52.5 | 73.078  |
| 53.0 | 71.363  |
| 53.5 | 69.647  |
| 54.0 | 68.005  |
| 54.5 | 66.362  |

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

|      |        |
|------|--------|
| 55.0 | 64.792 |
| 55.5 | 63.223 |
| 56.0 | 61.726 |
| 56.5 | 60.266 |
| 57.0 | 58.806 |
| 57.5 | 57.309 |
| 58.0 | 55.849 |
| 58.5 | 54.426 |
| 59.0 | 53.002 |
| 59.5 | 51.651 |
| 60.0 | 50.264 |
| 60.5 | 48.950 |
| 61.0 | 47.636 |
| 61.5 | 46.322 |
| 62.0 | 45.081 |
| 62.5 | 43.840 |
| 63.0 | 42.599 |
| 63.5 | 41.394 |
| 64.0 | 40.226 |
| 64.5 | 39.058 |
| 65.0 | 37.926 |
| 65.5 | 36.795 |
| 66.0 | 35.700 |
| 66.5 | 34.605 |
| 67.0 | 33.546 |
| 67.5 | 32.524 |
| 68.0 | 31.502 |
| 68.5 | 30.516 |
| 69.0 | 29.531 |
| 69.5 | 28.545 |
| 70.0 | 27.633 |
| 70.5 | 26.683 |
| 71.0 | 25.771 |
| 71.5 | 24.858 |
| 72.0 | 23.982 |
| 72.5 | 23.106 |
| 73.0 | 22.230 |
| 73.5 | 21.391 |
| 74.0 | 20.551 |
| 74.5 | 19.748 |
| 75.0 | 18.945 |
| 75.5 | 18.142 |
| 76.0 | 17.375 |
| 76.5 | 16.609 |
| 77.0 | 15.842 |
| 77.5 | 15.076 |
| 78.0 | 14.346 |
| 78.5 | 13.579 |
| 79.0 | 12.885 |
| 79.5 | 12.155 |
| 80.0 | 11.462 |
| 80.5 | 10.768 |
| 81.0 | 10.075 |
| 81.5 | 9.418  |
| 82.0 | 8.724  |
| 82.5 | 8.067  |

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 7.410 |
| 83.5  | 6.717 |
| 84.0  | 6.059 |
| 84.5  | 5.366 |
| 85.0  | 4.709 |
| 85.5  | 4.161 |
| 86.0  | 3.687 |
| 86.5  | 3.249 |
| 87.0  | 2.884 |
| 87.5  | 2.555 |
| 88.0  | 2.190 |
| 88.5  | 1.862 |
| 89.0  | 1.533 |
| 89.5  | 1.168 |
| 90.0  | 0.840 |
| 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 : 4PR-TL-L7-9DW-DIM-UNV-LW-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 : 4PR-TL-L7-9DW-DIM-UNV-LW-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**  
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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    | 154.62 | N.A.  | 23.10  |
| 0-30    | 308.86 | N.A.  | 46.20  |
| 0-40    | 457.17 | N.A.  | 68.40  |
| 0-60    | 604.30 | N.A.  | 90.40  |
| 0-80    | 662.31 | N.A.  | 99.10  |
| 0-90    | 668.12 | N.A.  | 100.00 |
| 10-90   | 622.73 | N.A.  | 93.20  |
| 20-40   | 302.56 | N.A.  | 45.30  |
| 20-50   | 391.39 | N.A.  | 58.60  |
| 40-70   | 184.95 | N.A.  | 27.70  |
| 60-80   | 58.01  | N.A.  | 8.70   |
| 70-80   | 20.18  | N.A.  | 3.00   |
| 80-90   | 5.81   | N.A.  | 0.90   |
| 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   | 668.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 45.38  |
| 10-20   | 109.23 |
| 20-30   | 154.24 |
| 30-40   | 148.32 |
| 40-50   | 88.83  |
| 50-60   | 58.29  |
| 60-70   | 37.83  |
| 70-80   | 20.18  |
| 80-90   | 5.81   |
| 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  | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 39 | 39 | 39 | 37 | 37 | 37 | 36 | 36 | 36 | 35 |
| 1  | 39 | 37 | 36 | 35 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 31 |
| 2  | 36 | 34 | 32 | 30 | 35 | 33 | 31 | 30 | 32 | 30 | 29 | 31 | 30 | 29 | 30 | 29 | 28 | 27 |
| 3  | 34 | 31 | 28 | 26 | 33 | 30 | 28 | 26 | 29 | 27 | 26 | 28 | 27 | 25 | 27 | 26 | 25 | 24 |
| 4  | 31 | 28 | 25 | 23 | 31 | 27 | 25 | 23 | 27 | 25 | 23 | 26 | 24 | 23 | 25 | 24 | 22 | 22 |
| 5  | 29 | 25 | 23 | 21 | 29 | 25 | 23 | 21 | 24 | 22 | 21 | 24 | 22 | 20 | 23 | 22 | 20 | 20 |
| 6  | 27 | 23 | 21 | 19 | 27 | 23 | 21 | 19 | 23 | 20 | 19 | 22 | 20 | 19 | 21 | 20 | 18 | 18 |
| 7  | 26 | 22 | 19 | 17 | 25 | 21 | 19 | 17 | 21 | 19 | 17 | 20 | 18 | 17 | 20 | 18 | 17 | 16 |
| 8  | 24 | 20 | 18 | 16 | 24 | 20 | 17 | 16 | 19 | 17 | 16 | 19 | 17 | 16 | 19 | 17 | 15 | 15 |
| 9  | 23 | 19 | 16 | 14 | 22 | 18 | 16 | 14 | 18 | 16 | 14 | 18 | 16 | 14 | 17 | 16 | 14 | 14 |
| 10 | 21 | 17 | 15 | 13 | 21 | 17 | 15 | 13 | 17 | 15 | 13 | 17 | 15 | 13 | 16 | 15 | 13 | 13 |

# 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

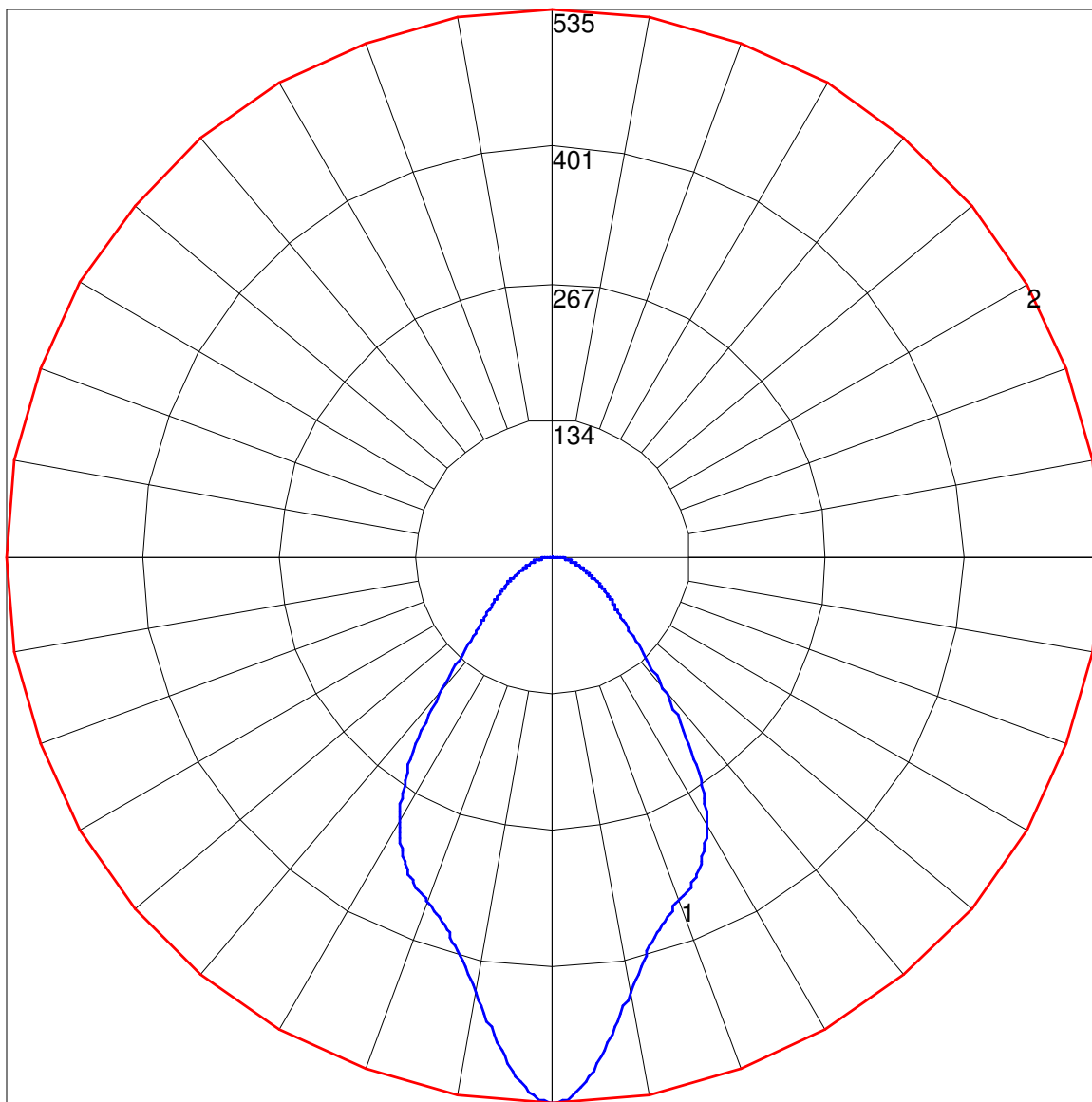
| X=2H | Y=2H | 21.7 | 23.0 | 22.0 | 23.3 | 23.6 | 21.7 | 23.0 | 22.0 | 23.3 | 23.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 23.0 | 24.2 | 23.4 | 24.6 | 24.9 | 23.0 | 24.2 | 23.4 | 24.6 | 24.9 |
|      | 4H   | 23.5 | 24.7 | 23.9 | 25.0 | 25.4 | 23.5 | 24.7 | 23.9 | 25.0 | 25.4 |
|      | 6H   | 23.9 | 24.9 | 24.4 | 25.3 | 25.7 | 23.9 | 24.9 | 24.4 | 25.3 | 25.7 |
|      | 8H   | 24.1 | 25.0 | 24.5 | 25.4 | 25.8 | 24.1 | 25.0 | 24.5 | 25.4 | 25.8 |
|      | 12H  | 24.1 | 25.0 | 24.5 | 25.4 | 25.8 | 24.1 | 25.0 | 24.5 | 25.4 | 25.8 |

### UGR Viewed Endwise

|     |     |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H  | 2H  | 22.1 | 23.2 | 22.5 | 23.6 | 23.9 | 22.1 | 23.2 | 22.5 | 23.6 | 23.9 |
|     | 3H  | 23.7 | 24.6 | 24.1 | 25.0 | 25.4 | 23.7 | 24.6 | 24.1 | 25.0 | 25.4 |
|     | 4H  | 24.3 | 25.1 | 24.8 | 25.6 | 26.0 | 24.3 | 25.1 | 24.8 | 25.6 | 26.0 |
|     | 6H  | 24.8 | 25.5 | 25.3 | 26.0 | 26.5 | 24.8 | 25.5 | 25.3 | 26.0 | 26.5 |
|     | 8H  | 25.0 | 25.7 | 25.5 | 26.1 | 26.6 | 25.0 | 25.7 | 25.5 | 26.1 | 26.6 |
|     | 12H | 25.1 | 25.7 | 25.6 | 26.2 | 26.6 | 25.1 | 25.7 | 25.6 | 26.2 | 26.6 |
| 8H  | 4H  | 24.6 | 25.2 | 25.0 | 25.6 | 26.1 | 24.6 | 25.2 | 25.0 | 25.6 | 26.1 |
|     | 6H  | 25.2 | 25.7 | 25.7 | 26.2 | 26.7 | 25.2 | 25.7 | 25.7 | 26.2 | 26.7 |
|     | 8H  | 25.4 | 25.9 | 25.9 | 26.4 | 26.9 | 25.4 | 25.9 | 25.9 | 26.4 | 26.9 |
|     | 12H | 25.6 | 26.0 | 26.1 | 26.5 | 27.1 | 25.6 | 26.0 | 26.1 | 26.5 | 27.1 |
| 12H | 4H  | 24.6 | 25.1 | 25.0 | 25.6 | 26.1 | 24.6 | 25.1 | 25.0 | 25.6 | 26.1 |
|     | 6H  | 25.2 | 25.7 | 25.7 | 26.1 | 26.7 | 25.2 | 25.7 | 25.7 | 26.1 | 26.7 |
|     | 8H  | 25.5 | 25.9 | 26.0 | 26.4 | 27.0 | 25.5 | 25.9 | 26.0 | 26.4 | 27.0 |

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 534.765 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.)