



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L10-835-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from UL 12326812.29  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 18 DEC 2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6PR-TL-L10-835-DIM-UNV-LW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass  
 [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                | 1111               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 104                |
| Total Luminaire Watts           | 10.7               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.20               |
| Spacing Criterion (90-270)      | 1.20               |
| Spacing Criterion (Diagonal)    | 1.26               |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 25816            | 25816             | 25816             |
| 55                  | 12747            | 12747             | 12747             |
| 65                  | 8634             | 8634              | 8634              |
| 75                  | 6421             | 6421              | 6421              |
| 85                  | 4446             | 4446              | 4446              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 588.206  |
| 0.5  | 587.703  |
| 1.0  | 587.200  |
| 1.5  | 586.696  |
| 2.0  | 585.690  |
| 2.5  | 584.684  |
| 3.0  | 583.174  |
| 3.5  | 582.168  |
| 4.0  | 580.658  |
| 4.5  | 579.149  |
| 5.0  | 577.639  |
| 5.5  | 576.130  |
| 6.0  | 574.620  |
| 6.5  | 573.111  |
| 7.0  | 571.601  |
| 7.5  | 569.589  |
| 8.0  | 568.079  |
| 8.5  | 566.570  |
| 9.0  | 564.557  |
| 9.5  | 562.544  |
| 10.0 | 561.035  |
| 10.5 | 559.022  |
| 11.0 | 557.009  |
| 11.5 | 555.500  |
| 12.0 | 553.487  |
| 12.5 | 551.475  |
| 13.0 | 549.462  |
| 13.5 | 547.449  |
| 14.0 | 545.436  |
| 14.5 | 543.424  |
| 15.0 | 540.908  |
| 15.5 | 538.895  |
| 16.0 | 536.883  |
| 16.5 | 534.870  |
| 17.0 | 532.354  |
| 17.5 | 530.341  |
| 18.0 | 528.832  |
| 18.5 | 526.819  |
| 19.0 | 524.807  |
| 19.5 | 522.794  |
| 20.0 | 520.781  |
| 20.5 | 519.272  |
| 21.0 | 517.259  |
| 21.5 | 515.246  |
| 22.0 | 512.730  |
| 22.5 | 510.215  |
| 23.0 | 508.202  |
| 23.5 | 505.183  |
| 24.0 | 502.818  |
| 24.5 | 500.151  |
| 25.0 | 497.434  |
| 25.5 | 494.717  |
| 26.0 | 492.000  |
| 26.5 | 489.182  |

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**PHOTOMETRIC FILENAME : 6PR-TL-L10-835-DIM-UNV-LW-OF-WH\_.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 486.415 |
| 27.5 | 483.647 |
| 28.0 | 480.880 |
| 28.5 | 478.163 |
| 29.0 | 475.546 |
| 29.5 | 472.879 |
| 30.0 | 470.011 |
| 30.5 | 467.143 |
| 31.0 | 464.124 |
| 31.5 | 461.005 |
| 32.0 | 457.583 |
| 32.5 | 453.960 |
| 33.0 | 450.237 |
| 33.5 | 446.211 |
| 34.0 | 441.884 |
| 34.5 | 437.255 |
| 35.0 | 432.424 |
| 35.5 | 427.191 |
| 36.0 | 421.757 |
| 36.5 | 416.021 |
| 37.0 | 409.933 |
| 37.5 | 403.693 |
| 38.0 | 397.152 |
| 38.5 | 390.208 |
| 39.0 | 383.013 |
| 39.5 | 375.466 |
| 40.0 | 367.767 |
| 40.5 | 359.716 |
| 41.0 | 351.817 |
| 41.5 | 343.565 |
| 42.0 | 335.162 |
| 42.5 | 326.407 |
| 43.0 | 317.500 |
| 43.5 | 308.292 |
| 44.0 | 298.984 |
| 44.5 | 289.423 |
| 45.0 | 279.662 |
| 45.5 | 269.599 |
| 46.0 | 259.233 |
| 46.5 | 248.767 |
| 47.0 | 238.201 |
| 47.5 | 227.735 |
| 48.0 | 217.319 |
| 48.5 | 207.004 |
| 49.0 | 197.092 |
| 49.5 | 187.280 |
| 50.0 | 178.122 |
| 50.5 | 169.216 |
| 51.0 | 160.964 |
| 51.5 | 153.215 |
| 52.0 | 145.970 |
| 52.5 | 139.227 |
| 53.0 | 132.887 |
| 53.5 | 127.000 |
| 54.0 | 121.667 |
| 54.5 | 116.635 |

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CANDELA TABULATION - (Cont.)

|      |         |
|------|---------|
| 55.0 | 112.006 |
| 55.5 | 107.729 |
| 56.0 | 103.754 |
| 56.5 | 100.030 |
| 57.0 | 96.407  |
| 57.5 | 93.036  |
| 58.0 | 89.866  |
| 58.5 | 86.797  |
| 59.0 | 83.979  |
| 59.5 | 81.262  |
| 60.0 | 78.545  |
| 60.5 | 75.979  |
| 61.0 | 73.463  |
| 61.5 | 71.048  |
| 62.0 | 68.683  |
| 62.5 | 66.418  |
| 63.0 | 64.205  |
| 63.5 | 62.041  |
| 64.0 | 59.928  |
| 64.5 | 57.915  |
| 65.0 | 55.902  |
| 65.5 | 53.990  |
| 66.0 | 52.078  |
| 66.5 | 50.216  |
| 67.0 | 48.405  |
| 67.5 | 46.694  |
| 68.0 | 44.933  |
| 68.5 | 43.323  |
| 69.0 | 41.662  |
| 69.5 | 40.103  |
| 70.0 | 38.543  |
| 70.5 | 37.084  |
| 71.0 | 35.675  |
| 71.5 | 34.266  |
| 72.0 | 32.907  |
| 72.5 | 31.649  |
| 73.0 | 30.341  |
| 73.5 | 29.083  |
| 74.0 | 27.876  |
| 74.5 | 26.668  |
| 75.0 | 25.460  |
| 75.5 | 24.353  |
| 76.0 | 23.196  |
| 76.5 | 22.139  |
| 77.0 | 21.033  |
| 77.5 | 19.976  |
| 78.0 | 18.919  |
| 78.5 | 17.913  |
| 79.0 | 16.907  |
| 79.5 | 15.900  |
| 80.0 | 14.944  |
| 80.5 | 13.988  |
| 81.0 | 13.032  |
| 81.5 | 12.076  |
| 82.0 | 11.170  |
| 82.5 | 10.265  |

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 9.359 |
| 83.5  | 8.504 |
| 84.0  | 7.598 |
| 84.5  | 6.793 |
| 85.0  | 5.937 |
| 85.5  | 5.132 |
| 86.0  | 4.327 |
| 86.5  | 3.573 |
| 87.0  | 2.868 |
| 87.5  | 2.264 |
| 88.0  | 1.761 |
| 88.5  | 1.308 |
| 89.0  | 0.956 |
| 89.5  | 0.654 |
| 90.0  | 0.403 |
| 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 : 6PR-TL-L10-835-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  
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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    | 207.35  | N.A.  | 18.70  |
| 0-30    | 436.58  | N.A.  | 39.30  |
| 0-40    | 703.98  | N.A.  | 63.40  |
| 0-60    | 1020.69 | N.A.  | 91.90  |
| 0-80    | 1104.09 | N.A.  | 99.40  |
| 0-90    | 1111.12 | N.A.  | 100.00 |
| 10-90   | 1056.51 | N.A.  | 95.10  |
| 20-40   | 496.63  | N.A.  | 44.70  |
| 20-50   | 708.81  | N.A.  | 63.80  |
| 40-70   | 372.81  | N.A.  | 33.60  |
| 60-80   | 83.40   | N.A.  | 7.50   |
| 70-80   | 27.31   | N.A.  | 2.50   |
| 80-90   | 7.03    | N.A.  | 0.60   |
| 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   | 1111.13 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 54.61  |
| 10-20   | 152.74 |
| 20-30   | 229.23 |
| 30-40   | 267.40 |
| 40-50   | 212.18 |
| 50-60   | 104.54 |
| 60-70   | 56.09  |
| 70-80   | 27.31  |
| 80-90   | 7.03   |
| 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   |

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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  | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 56 | 56 | 56 | 54 | 54 | 54 | 51 | 51 | 51 | 50 |
| 1  | 56 | 54 | 52 | 51 | 55 | 53 | 51 | 50 | 51 | 50 | 48 | 49 | 48 | 47 | 47 | 46 | 46 | 45 |
| 2  | 52 | 49 | 46 | 43 | 51 | 48 | 45 | 43 | 46 | 44 | 42 | 44 | 43 | 41 | 43 | 41 | 40 | 39 |
| 3  | 48 | 44 | 40 | 38 | 47 | 43 | 40 | 37 | 42 | 39 | 37 | 40 | 38 | 36 | 39 | 37 | 35 | 35 |
| 4  | 45 | 40 | 36 | 33 | 44 | 39 | 35 | 33 | 38 | 35 | 32 | 37 | 34 | 32 | 36 | 33 | 32 | 31 |
| 5  | 42 | 36 | 32 | 29 | 41 | 35 | 32 | 29 | 34 | 31 | 29 | 33 | 31 | 28 | 33 | 30 | 28 | 27 |
| 6  | 39 | 33 | 29 | 26 | 38 | 32 | 29 | 26 | 32 | 28 | 26 | 31 | 28 | 26 | 30 | 27 | 25 | 24 |
| 7  | 36 | 30 | 26 | 23 | 35 | 30 | 26 | 23 | 29 | 26 | 23 | 28 | 25 | 23 | 28 | 25 | 23 | 22 |
| 8  | 34 | 28 | 24 | 21 | 33 | 27 | 24 | 21 | 27 | 23 | 21 | 26 | 23 | 21 | 26 | 23 | 21 | 20 |
| 9  | 32 | 26 | 22 | 19 | 31 | 25 | 22 | 19 | 25 | 21 | 19 | 24 | 21 | 19 | 24 | 21 | 19 | 18 |
| 10 | 30 | 24 | 20 | 18 | 29 | 23 | 20 | 18 | 23 | 20 | 18 | 23 | 20 | 18 | 22 | 19 | 17 | 17 |

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**UGR TABLE - CORRECTED**

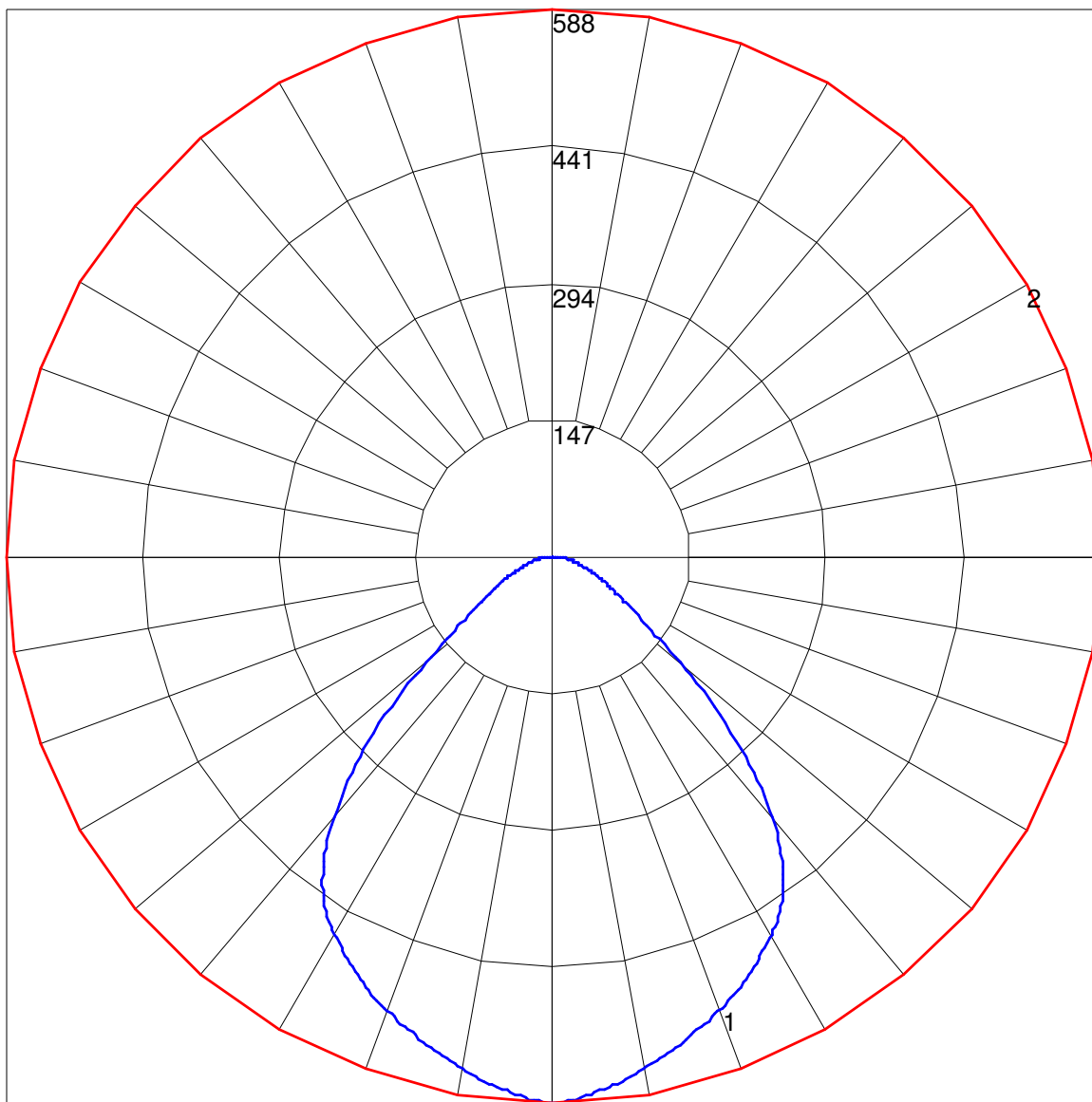
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 20.1                 | 21.5 | 20.5 | 21.8 | 22.1 | 20.1               | 21.5 | 20.5 | 21.8 | 22.1 |
|           | 3H   | 21.2                 | 22.4 | 21.6 | 22.7 | 23.1 | 21.2               | 22.4 | 21.6 | 22.7 | 23.1 |
|           | 4H   | 21.6                 | 22.7 | 22.0 | 23.1 | 23.4 | 21.6               | 22.7 | 22.0 | 23.1 | 23.4 |
|           | 6H   | 21.8                 | 22.9 | 22.2 | 23.3 | 23.7 | 21.8               | 22.9 | 22.2 | 23.3 | 23.7 |
|           | 8H   | 21.9                 | 22.9 | 22.3 | 23.3 | 23.7 | 21.9               | 22.9 | 22.3 | 23.3 | 23.7 |
|           | 12H  | 22.0                 | 22.9 | 22.4 | 23.3 | 23.7 | 22.0               | 22.9 | 22.4 | 23.3 | 23.7 |
| 4H        | 2H   | 20.5                 | 21.6 | 20.9 | 21.9 | 22.3 | 20.5               | 21.6 | 20.9 | 21.9 | 22.3 |
|           | 3H   | 21.7                 | 22.7 | 22.1 | 23.1 | 23.5 | 21.7               | 22.7 | 22.1 | 23.1 | 23.5 |
|           | 4H   | 22.2                 | 23.1 | 22.7 | 23.5 | 23.9 | 22.2               | 23.1 | 22.7 | 23.5 | 23.9 |
|           | 6H   | 22.6                 | 23.3 | 23.1 | 23.8 | 24.3 | 22.6               | 23.3 | 23.1 | 23.8 | 24.3 |
|           | 8H   | 22.7                 | 23.4 | 23.2 | 23.9 | 24.3 | 22.7               | 23.4 | 23.2 | 23.9 | 24.3 |
|           | 12H  | 22.8                 | 23.4 | 23.3 | 23.9 | 24.4 | 22.8               | 23.4 | 23.3 | 23.9 | 24.4 |
| 8H        | 4H   | 22.4                 | 23.1 | 22.9 | 23.5 | 24.0 | 22.4               | 23.1 | 22.9 | 23.5 | 24.0 |
|           | 6H   | 22.9                 | 23.4 | 23.4 | 23.9 | 24.4 | 22.9               | 23.4 | 23.4 | 23.9 | 24.4 |
|           | 8H   | 23.0                 | 23.5 | 23.6 | 24.1 | 24.5 | 23.0               | 23.5 | 23.6 | 24.1 | 24.5 |
|           | 12H  | 23.2                 | 23.6 | 23.7 | 24.1 | 24.7 | 23.2               | 23.6 | 23.7 | 24.1 | 24.7 |
| 12H       | 4H   | 22.4                 | 23.0 | 22.9 | 23.5 | 23.9 | 22.4               | 23.0 | 22.9 | 23.5 | 23.9 |
|           | 6H   | 22.9                 | 23.4 | 23.4 | 23.9 | 24.4 | 22.9               | 23.4 | 23.4 | 23.9 | 24.4 |
|           | 8H   | 23.1                 | 23.5 | 23.6 | 24.0 | 24.6 | 23.1               | 23.5 | 23.6 | 24.0 | 24.6 |

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 588.206 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.)