



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P14-835-PoE-LW-OF-WH

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

[MORE] s patterned 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                | 1398               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 80                 |
| Total Luminaire Watts           | 17.5               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.08               |
| Spacing Criterion (90-270)      | 1.08               |
| Spacing Criterion (Diagonal)    | 0.98               |
| 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                  | 23232            | 23232             | 23232             |
| 55                  | 19342            | 19342             | 19342             |
| 65                  | 14694            | 14694             | 14694             |
| 75                  | 10656            | 10656             | 10656             |
| 85                  | 6944             | 6944              | 6944              |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-OF-WH\_.IES

CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 889.003  |
| 0.5  | 888.824  |
| 1.0  | 888.108  |
| 1.5  | 887.034  |
| 2.0  | 885.692  |
| 2.5  | 883.902  |
| 3.0  | 882.112  |
| 3.5  | 880.053  |
| 4.0  | 878.174  |
| 4.5  | 876.294  |
| 5.0  | 874.952  |
| 5.5  | 873.699  |
| 6.0  | 872.535  |
| 6.5  | 871.372  |
| 7.0  | 870.119  |
| 7.5  | 868.955  |
| 8.0  | 867.792  |
| 8.5  | 866.718  |
| 9.0  | 865.644  |
| 9.5  | 864.749  |
| 10.0 | 863.854  |
| 10.5 | 863.138  |
| 11.0 | 862.511  |
| 11.5 | 862.153  |
| 12.0 | 861.527  |
| 12.5 | 860.900  |
| 13.0 | 860.005  |
| 13.5 | 858.842  |
| 14.0 | 857.410  |
| 14.5 | 855.799  |
| 15.0 | 854.098  |
| 15.5 | 851.950  |
| 16.0 | 849.623  |
| 16.5 | 847.296  |
| 17.0 | 844.969  |
| 17.5 | 842.553  |
| 18.0 | 839.957  |
| 18.5 | 837.004  |
| 19.0 | 833.692  |
| 19.5 | 830.023  |
| 20.0 | 825.816  |
| 20.5 | 821.252  |
| 21.0 | 815.613  |
| 21.5 | 808.901  |
| 22.0 | 801.293  |
| 22.5 | 792.701  |
| 23.0 | 783.304  |
| 23.5 | 773.101  |
| 24.0 | 761.824  |
| 24.5 | 749.652  |
| 25.0 | 736.495  |
| 25.5 | 722.802  |
| 26.0 | 708.213  |
| 26.5 | 692.998  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-OF-WH\_.IES**

**CANDELA TABULATION - (Cont.)**

|             |         |
|-------------|---------|
| <b>27.0</b> | 676.799 |
| <b>27.5</b> | 660.152 |
| <b>28.0</b> | 642.610 |
| <b>28.5</b> | 624.083 |
| <b>29.0</b> | 604.841 |
| <b>29.5</b> | 584.614 |
| <b>30.0</b> | 563.850 |
| <b>30.5</b> | 542.459 |
| <b>31.0</b> | 521.069 |
| <b>31.5</b> | 499.499 |
| <b>32.0</b> | 478.556 |
| <b>32.5</b> | 458.508 |
| <b>33.0</b> | 439.266 |
| <b>33.5</b> | 421.276 |
| <b>34.0</b> | 404.719 |
| <b>34.5</b> | 389.683 |
| <b>35.0</b> | 376.258 |
| <b>35.5</b> | 363.907 |
| <b>36.0</b> | 353.077 |
| <b>36.5</b> | 343.143 |
| <b>37.0</b> | 334.282 |
| <b>37.5</b> | 326.317 |
| <b>38.0</b> | 319.067 |
| <b>38.5</b> | 312.444 |
| <b>39.0</b> | 306.179 |
| <b>39.5</b> | 300.541 |
| <b>40.0</b> | 295.081 |
| <b>40.5</b> | 289.980 |
| <b>41.0</b> | 285.236 |
| <b>41.5</b> | 280.582 |
| <b>42.0</b> | 276.107 |
| <b>42.5</b> | 271.990 |
| <b>43.0</b> | 267.784 |
| <b>43.5</b> | 263.667 |
| <b>44.0</b> | 259.639 |
| <b>44.5</b> | 255.701 |
| <b>45.0</b> | 251.674 |
| <b>45.5</b> | 247.825 |
| <b>46.0</b> | 243.887 |
| <b>46.5</b> | 239.949 |
| <b>47.0</b> | 235.922 |
| <b>47.5</b> | 231.984 |
| <b>48.0</b> | 227.956 |
| <b>48.5</b> | 223.929 |
| <b>49.0</b> | 219.901 |
| <b>49.5</b> | 215.695 |
| <b>50.0</b> | 211.667 |
| <b>50.5</b> | 207.550 |
| <b>51.0</b> | 203.433 |
| <b>51.5</b> | 199.227 |
| <b>52.0</b> | 195.020 |
| <b>52.5</b> | 190.814 |
| <b>53.0</b> | 186.607 |
| <b>53.5</b> | 182.401 |
| <b>54.0</b> | 178.373 |
| <b>54.5</b> | 174.256 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-OF-WH\_.IES

CANDELA TABULATION - (Cont.)

|      |         |
|------|---------|
| 55.0 | 169.960 |
| 55.5 | 165.754 |
| 56.0 | 161.547 |
| 56.5 | 157.609 |
| 57.0 | 153.671 |
| 57.5 | 149.554 |
| 58.0 | 145.437 |
| 58.5 | 141.410 |
| 59.0 | 137.472 |
| 59.5 | 133.534 |
| 60.0 | 129.775 |
| 60.5 | 126.016 |
| 61.0 | 122.346 |
| 61.5 | 118.677 |
| 62.0 | 115.186 |
| 62.5 | 111.696 |
| 63.0 | 108.295 |
| 63.5 | 104.894 |
| 64.0 | 101.582 |
| 64.5 | 98.360  |
| 65.0 | 95.138  |
| 65.5 | 92.006  |
| 66.0 | 88.882  |
| 66.5 | 85.813  |
| 67.0 | 82.779  |
| 67.5 | 79.807  |
| 68.0 | 76.889  |
| 68.5 | 73.963  |
| 69.0 | 71.126  |
| 69.5 | 68.315  |
| 70.0 | 65.586  |
| 70.5 | 62.945  |
| 71.0 | 60.359  |
| 71.5 | 57.853  |
| 72.0 | 55.436  |
| 72.5 | 53.091  |
| 73.0 | 50.809  |
| 73.5 | 48.572  |
| 74.0 | 46.424  |
| 74.5 | 44.320  |
| 75.0 | 42.253  |
| 75.5 | 40.257  |
| 76.0 | 38.297  |
| 76.5 | 36.373  |
| 77.0 | 34.502  |
| 77.5 | 32.667  |
| 78.0 | 30.886  |
| 78.5 | 29.141  |
| 79.0 | 27.432  |
| 79.5 | 25.785  |
| 80.0 | 24.147  |
| 80.5 | 22.563  |
| 81.0 | 20.997  |
| 81.5 | 19.439  |
| 82.0 | 17.918  |
| 82.5 | 16.405  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-OF-WH\_.IES

CANDELA TABULATION - (Cont.)

|       |        |
|-------|--------|
| 83.0  | 14.929 |
| 83.5  | 13.479 |
| 84.0  | 12.047 |
| 84.5  | 10.642 |
| 85.0  | 9.272  |
| 85.5  | 7.948  |
| 86.0  | 6.668  |
| 86.5  | 5.433  |
| 87.0  | 4.233  |
| 87.5  | 3.231  |
| 88.0  | 2.470  |
| 88.5  | 1.808  |
| 89.0  | 1.253  |
| 89.5  | 0.788  |
| 90.0  | 0.501  |
| 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 : V6DR-P14-835-POE-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 : V6DR-P14-835-POE-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**  
**PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-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 : V6DR-P14-835-POE-LW-OF-WH\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 323.84  | N.A.  | 23.20  |
| 0-30    | 654.60  | N.A.  | 46.80  |
| 0-40    | 899.87  | N.A.  | 64.40  |
| 0-60    | 1246.18 | N.A.  | 89.20  |
| 0-80    | 1386.45 | N.A.  | 99.20  |
| 0-90    | 1397.54 | N.A.  | 100.00 |
| 10-90   | 1314.35 | N.A.  | 94.00  |
| 20-40   | 576.03  | N.A.  | 41.20  |
| 20-50   | 770.38  | N.A.  | 55.10  |
| 40-70   | 441.15  | N.A.  | 31.60  |
| 60-80   | 140.27  | N.A.  | 10.00  |
| 70-80   | 45.44   | N.A.  | 3.30   |
| 80-90   | 11.08   | N.A.  | 0.80   |
| 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   | 1397.55 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 83.19  |
| 10-20   | 240.64 |
| 20-30   | 330.77 |
| 30-40   | 245.27 |
| 40-50   | 194.35 |
| 50-60   | 151.96 |
| 60-70   | 94.83  |
| 70-80   | 45.44  |
| 80-90   | 11.08  |
| 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 : V6DR-P14-835-POE-LW-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  | 168 | 168 | 168 | 168 | 164 | 164 | 164 | 164 | 157 | 157 | 157 | 150 | 150 | 150 | 144 | 144 | 144 | 141 |
| 1  | 157 | 152 | 147 | 142 | 153 | 148 | 144 | 140 | 143 | 139 | 136 | 137 | 134 | 132 | 132 | 130 | 128 | 125 |
| 2  | 146 | 136 | 128 | 122 | 142 | 134 | 126 | 120 | 129 | 123 | 118 | 124 | 119 | 115 | 120 | 116 | 112 | 110 |
| 3  | 135 | 123 | 113 | 106 | 132 | 121 | 112 | 105 | 117 | 109 | 103 | 113 | 107 | 101 | 110 | 104 | 100 | 97  |
| 4  | 126 | 112 | 101 | 93  | 123 | 110 | 100 | 93  | 106 | 98  | 91  | 103 | 96  | 90  | 100 | 94  | 89  | 86  |
| 5  | 117 | 102 | 91  | 83  | 115 | 100 | 90  | 83  | 98  | 89  | 82  | 95  | 87  | 81  | 93  | 86  | 80  | 78  |
| 6  | 110 | 94  | 83  | 75  | 107 | 92  | 82  | 75  | 90  | 81  | 74  | 88  | 80  | 73  | 86  | 78  | 73  | 70  |
| 7  | 103 | 86  | 76  | 68  | 101 | 85  | 75  | 68  | 83  | 74  | 67  | 81  | 73  | 67  | 80  | 72  | 67  | 64  |
| 8  | 97  | 80  | 69  | 62  | 95  | 79  | 69  | 62  | 77  | 68  | 62  | 76  | 67  | 61  | 74  | 67  | 61  | 59  |
| 9  | 91  | 74  | 64  | 57  | 89  | 74  | 64  | 57  | 72  | 63  | 57  | 71  | 63  | 57  | 69  | 62  | 56  | 54  |
| 10 | 86  | 70  | 60  | 53  | 85  | 69  | 59  | 53  | 68  | 59  | 53  | 66  | 58  | 53  | 65  | 58  | 52  | 50  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LW-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 | 19.0 | 20.4 | 19.4 | 20.7 | 21.0 | 19.0 | 20.4 | 19.4 | 20.7 | 21.0 |
|      | 3H   | 20.2 | 21.5 | 20.6 | 21.8 | 22.1 | 20.2 | 21.5 | 20.6 | 21.8 | 22.1 |
|      | 4H   | 20.6 | 21.8 | 21.0 | 22.1 | 22.5 | 20.6 | 21.8 | 21.0 | 22.1 | 22.5 |
|      | 6H   | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 |
|      | 8H   | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 |
|      | 12H  | 21.0 | 22.0 | 21.4 | 22.3 | 22.8 | 21.0 | 22.0 | 21.4 | 22.3 | 22.8 |

UGR Viewed Endwise

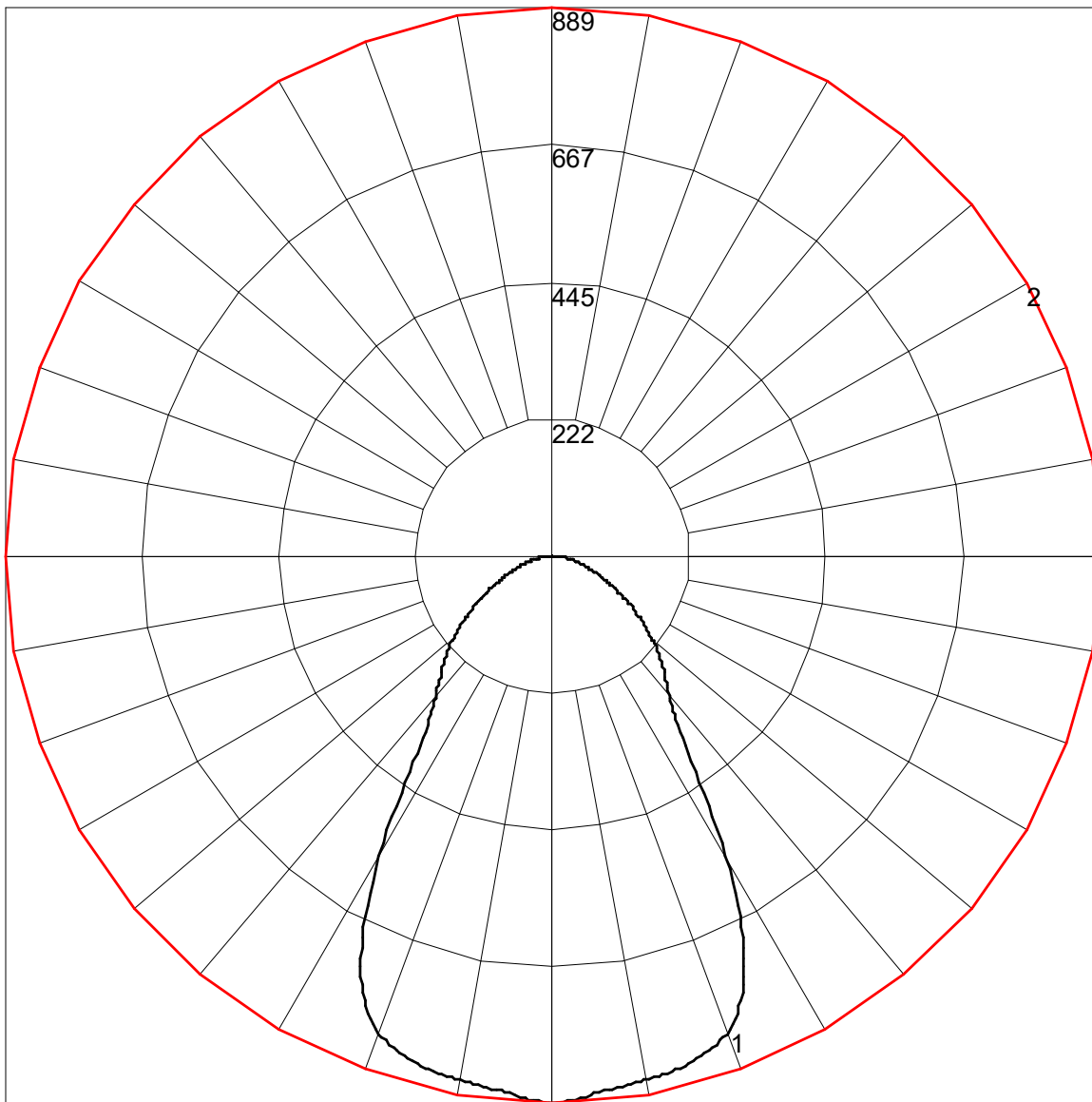
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 19.4 | 20.6 | 19.8 | 20.9 | 21.3 | 19.4 | 20.6 | 19.8 | 20.9 | 21.3 |
|    | 3H  | 20.8 | 21.8 | 21.2 | 22.2 | 22.6 | 20.8 | 21.8 | 21.2 | 22.2 | 22.6 |
|    | 4H  | 21.3 | 22.2 | 21.8 | 22.6 | 23.0 | 21.3 | 22.2 | 21.8 | 22.6 | 23.0 |
|    | 6H  | 21.7 | 22.4 | 22.2 | 22.9 | 23.3 | 21.7 | 22.4 | 22.2 | 22.9 | 23.3 |
|    | 8H  | 21.8 | 22.5 | 22.2 | 22.9 | 23.4 | 21.8 | 22.5 | 22.2 | 22.9 | 23.4 |
|    | 12H | 21.9 | 22.5 | 22.3 | 23.0 | 23.4 | 21.9 | 22.5 | 22.3 | 23.0 | 23.4 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 21.5 | 22.2 | 21.9 | 22.6 | 23.1 | 21.5 | 22.2 | 21.9 | 22.6 | 23.1 |
|    | 6H  | 21.9 | 22.5 | 22.4 | 23.0 | 23.5 | 21.9 | 22.5 | 22.4 | 23.0 | 23.5 |
|    | 8H  | 22.1 | 22.6 | 22.6 | 23.1 | 23.6 | 22.1 | 22.6 | 22.6 | 23.1 | 23.6 |
|    | 12H | 22.2 | 22.7 | 22.7 | 23.2 | 23.7 | 22.2 | 22.7 | 22.7 | 23.2 | 23.7 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 21.5 | 22.1 | 22.0 | 22.6 | 23.0 | 21.5 | 22.1 | 22.0 | 22.6 | 23.0 |
|     | 6H | 22.0 | 22.5 | 22.5 | 22.9 | 23.5 | 22.0 | 22.5 | 22.5 | 22.9 | 23.5 |
|     | 8H | 22.2 | 22.6 | 22.7 | 23.1 | 23.7 | 22.2 | 22.6 | 22.7 | 23.1 | 23.7 |

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 889.003 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.)