

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HM6DR-TL-L10-835-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 6-16-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] HM6DR-TL-L10-835-DIM-UNV-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                | 1034               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 82                 |
| Total Luminaire Watts           | 12.6               |
| 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                  | 17183            | 17183             | 17183             |
| 55                  | 14306            | 14306             | 14306             |
| 65                  | 10868            | 10868             | 10868             |
| 75                  | 7882             | 7882              | 7882              |
| 85                  | 5136             | 5136              | 5136              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 657.537  |
| 0.5  | 657.404  |
| 1.0  | 656.875  |
| 1.5  | 656.080  |
| 2.0  | 655.087  |
| 2.5  | 653.763  |
| 3.0  | 652.439  |
| 3.5  | 650.917  |
| 4.0  | 649.527  |
| 4.5  | 648.137  |
| 5.0  | 647.144  |
| 5.5  | 646.217  |
| 6.0  | 645.356  |
| 6.5  | 644.496  |
| 7.0  | 643.569  |
| 7.5  | 642.708  |
| 8.0  | 641.848  |
| 8.5  | 641.053  |
| 9.0  | 640.259  |
| 9.5  | 639.597  |
| 10.0 | 638.935  |
| 10.5 | 638.406  |
| 11.0 | 637.942  |
| 11.5 | 637.677  |
| 12.0 | 637.214  |
| 12.5 | 636.751  |
| 13.0 | 636.089  |
| 13.5 | 635.228  |
| 14.0 | 634.169  |
| 14.5 | 632.977  |
| 15.0 | 631.720  |
| 15.5 | 630.131  |
| 16.0 | 628.410  |
| 16.5 | 626.689  |
| 17.0 | 624.968  |
| 17.5 | 623.180  |
| 18.0 | 621.261  |
| 18.5 | 619.076  |
| 19.0 | 616.627  |
| 19.5 | 613.913  |
| 20.0 | 610.801  |
| 20.5 | 607.425  |
| 21.0 | 603.255  |
| 21.5 | 598.290  |
| 22.0 | 592.663  |
| 22.5 | 586.308  |
| 23.0 | 579.358  |
| 23.5 | 571.811  |
| 24.0 | 563.470  |
| 24.5 | 554.468  |
| 25.0 | 544.737  |
| 25.5 | 534.608  |
| 26.0 | 523.818  |
| 26.5 | 512.565  |

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**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 500.583 |
| 27.5 | 488.270 |
| 28.0 | 475.296 |
| 28.5 | 461.593 |
| 29.0 | 447.361 |
| 29.5 | 432.400 |
| 30.0 | 417.042 |
| 30.5 | 401.221 |
| 31.0 | 385.400 |
| 31.5 | 369.446 |
| 32.0 | 353.956 |
| 32.5 | 339.128 |
| 33.0 | 324.896 |
| 33.5 | 311.590 |
| 34.0 | 299.344 |
| 34.5 | 288.223 |
| 35.0 | 278.293 |
| 35.5 | 269.158 |
| 36.0 | 261.148 |
| 36.5 | 253.800 |
| 37.0 | 247.246 |
| 37.5 | 241.355 |
| 38.0 | 235.993 |
| 38.5 | 231.094 |
| 39.0 | 226.461 |
| 39.5 | 222.290 |
| 40.0 | 218.252 |
| 40.5 | 214.479 |
| 41.0 | 210.970 |
| 41.5 | 207.528 |
| 42.0 | 204.218 |
| 42.5 | 201.173 |
| 43.0 | 198.062 |
| 43.5 | 195.017 |
| 44.0 | 192.038 |
| 44.5 | 189.125 |
| 45.0 | 186.146 |
| 45.5 | 183.300 |
| 46.0 | 180.387 |
| 46.5 | 177.475 |
| 47.0 | 174.496 |
| 47.5 | 171.583 |
| 48.0 | 168.604 |
| 48.5 | 165.625 |
| 49.0 | 162.646 |
| 49.5 | 159.535 |
| 50.0 | 156.556 |
| 50.5 | 153.511 |
| 51.0 | 150.466 |
| 51.5 | 147.355 |
| 52.0 | 144.244 |
| 52.5 | 141.132 |
| 53.0 | 138.021 |
| 53.5 | 134.910 |
| 54.0 | 131.931 |
| 54.5 | 128.886 |

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PHOTOMETRIC FILENAME : HM6DR-TL-L10-835-DIM-UNV-LW-OF-WH\_.IES

CANDELA TABULATION - (Cont.)

|      |         |
|------|---------|
| 55.0 | 125.708 |
| 55.5 | 122.597 |
| 56.0 | 119.486 |
| 56.5 | 116.573 |
| 57.0 | 113.661 |
| 57.5 | 110.615 |
| 58.0 | 107.570 |
| 58.5 | 104.592 |
| 59.0 | 101.679 |
| 59.5 | 98.766  |
| 60.0 | 95.986  |
| 60.5 | 93.206  |
| 61.0 | 90.492  |
| 61.5 | 87.777  |
| 62.0 | 85.196  |
| 62.5 | 82.614  |
| 63.0 | 80.099  |
| 63.5 | 77.583  |
| 64.0 | 75.134  |
| 64.5 | 72.751  |
| 65.0 | 70.368  |
| 65.5 | 68.051  |
| 66.0 | 65.740  |
| 66.5 | 63.470  |
| 67.0 | 61.226  |
| 67.5 | 59.028  |
| 68.0 | 56.870  |
| 68.5 | 54.705  |
| 69.0 | 52.607  |
| 69.5 | 50.528  |
| 70.0 | 48.509  |
| 70.5 | 46.556  |
| 71.0 | 44.643  |
| 71.5 | 42.790  |
| 72.0 | 41.003  |
| 72.5 | 39.268  |
| 73.0 | 37.580  |
| 73.5 | 35.925  |
| 74.0 | 34.336  |
| 74.5 | 32.781  |
| 75.0 | 31.252  |
| 75.5 | 29.775  |
| 76.0 | 28.326  |
| 76.5 | 26.903  |
| 77.0 | 25.519  |
| 77.5 | 24.162  |
| 78.0 | 22.845  |
| 78.5 | 21.554  |
| 79.0 | 20.289  |
| 79.5 | 19.071  |
| 80.0 | 17.860  |
| 80.5 | 16.688  |
| 81.0 | 15.530  |
| 81.5 | 14.378  |
| 82.0 | 13.253  |
| 82.5 | 12.134  |

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CANDELA TABULATION - (Cont.)

|       |        |
|-------|--------|
| 83.0  | 11.042 |
| 83.5  | 9.969  |
| 84.0  | 8.910  |
| 84.5  | 7.871  |
| 85.0  | 6.858  |
| 85.5  | 5.878  |
| 86.0  | 4.932  |
| 86.5  | 4.018  |
| 87.0  | 3.131  |
| 87.5  | 2.390  |
| 88.0  | 1.827  |
| 88.5  | 1.337  |
| 89.0  | 0.927  |
| 89.5  | 0.583  |
| 90.0  | 0.371  |
| 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  |

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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 |

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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    | 239.52  | N.A.  | 23.20  |
| 0-30    | 484.17  | N.A.  | 46.80  |
| 0-40    | 665.57  | N.A.  | 64.40  |
| 0-60    | 921.72  | N.A.  | 89.20  |
| 0-80    | 1025.47 | N.A.  | 99.20  |
| 0-90    | 1033.67 | N.A.  | 100.00 |
| 10-90   | 972.14  | N.A.  | 94.00  |
| 20-40   | 426.05  | N.A.  | 41.20  |
| 20-50   | 569.80  | N.A.  | 55.10  |
| 40-70   | 326.29  | N.A.  | 31.60  |
| 60-80   | 103.75  | N.A.  | 10.00  |
| 70-80   | 33.61   | N.A.  | 3.30   |
| 80-90   | 8.20    | 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   | 1033.68 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 61.53  |
| 10-20   | 177.99 |
| 20-30   | 244.65 |
| 30-40   | 181.41 |
| 40-50   | 143.75 |
| 50-60   | 112.40 |
| 60-70   | 70.14  |
| 70-80   | 33.61  |
| 80-90   | 8.20   |
| 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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2  | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 78  |
| 3  | 96  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 83  | 77  | 73  | 80  | 75  | 72  | 77  | 74  | 70  | 69  |
| 4  | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 61  |
| 5  | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 58  | 69  | 63  | 58  | 67  | 62  | 57  | 65  | 61  | 57  | 55  |
| 6  | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |
| 7  | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |
| 8  | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 54  | 48  | 43  | 52  | 47  | 43  | 42  |
| 9  | 64  | 53  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |
| 10 | 61  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |

**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 | 19.1 | 20.5 | 19.5 | 20.8 | 21.1 | 19.1 | 20.5 | 19.5 | 20.8 | 21.1 |
|      | 3H   | 20.3 | 21.6 | 20.7 | 21.9 | 22.2 | 20.3 | 21.6 | 20.7 | 21.9 | 22.2 |
|      | 4H   | 20.7 | 21.9 | 21.1 | 22.2 | 22.6 | 20.7 | 21.9 | 21.1 | 22.2 | 22.6 |
|      | 6H   | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 |
|      | 8H   | 21.0 | 22.1 | 21.5 | 22.4 | 22.9 | 21.0 | 22.1 | 21.5 | 22.4 | 22.9 |
|      | 12H  | 21.1 | 22.0 | 21.5 | 22.4 | 22.9 | 21.1 | 22.0 | 21.5 | 22.4 | 22.9 |

UGR Viewed Endwise

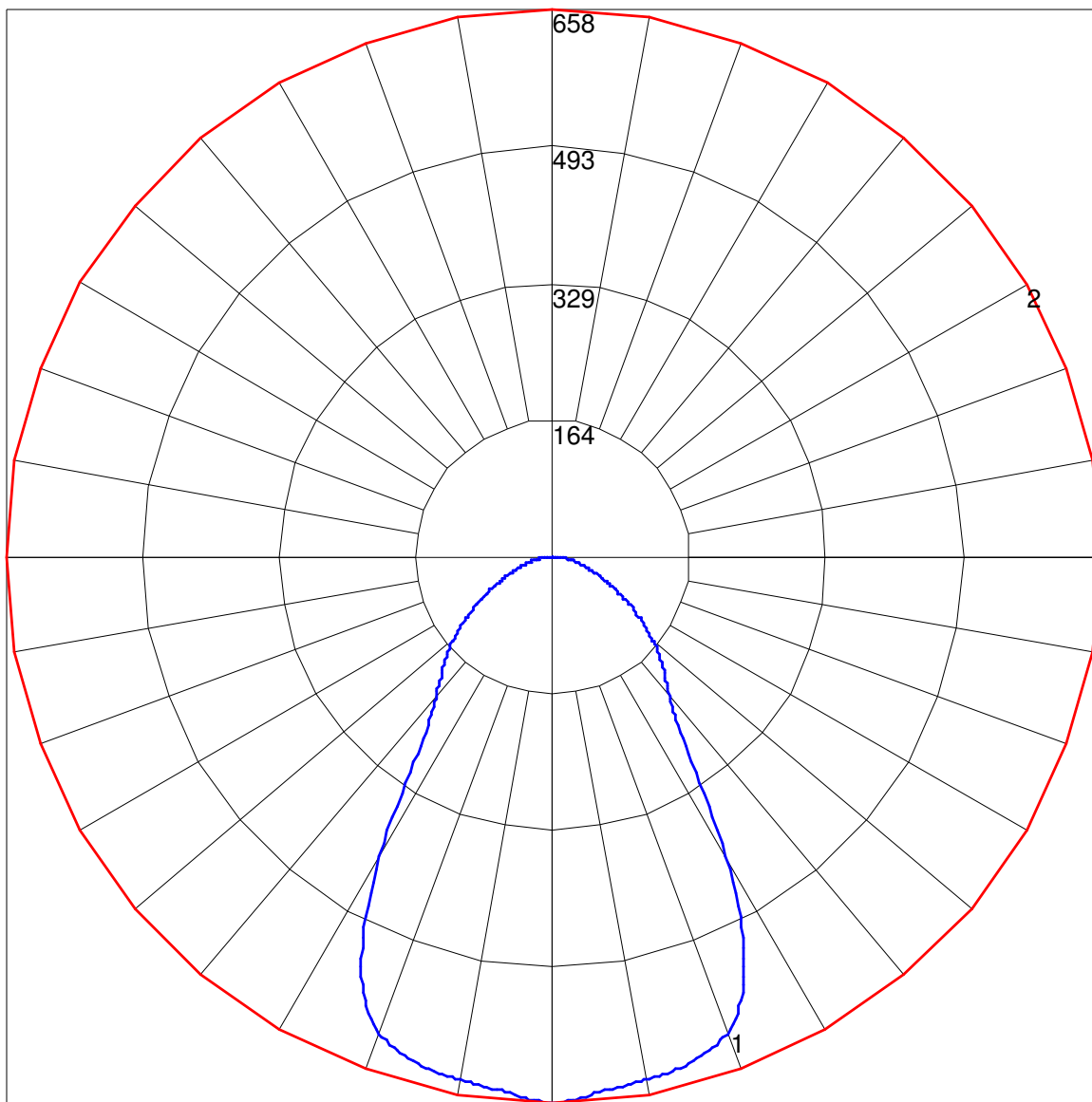
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 19.5 | 20.7 | 19.9 | 21.0 | 21.4 | 19.5 | 20.7 | 19.9 | 21.0 | 21.4 |
|    | 3H  | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 |
|    | 4H  | 21.4 | 22.3 | 21.8 | 22.7 | 23.1 | 21.4 | 22.3 | 21.8 | 22.7 | 23.1 |
|    | 6H  | 21.8 | 22.5 | 22.2 | 23.0 | 23.4 | 21.8 | 22.5 | 22.2 | 23.0 | 23.4 |
|    | 8H  | 21.9 | 22.6 | 22.3 | 23.0 | 23.5 | 21.9 | 22.6 | 22.3 | 23.0 | 23.5 |
|    | 12H | 22.0 | 22.6 | 22.4 | 23.1 | 23.5 | 22.0 | 22.6 | 22.4 | 23.1 | 23.5 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 21.6 | 22.3 | 22.0 | 22.7 | 23.2 | 21.6 | 22.3 | 22.0 | 22.7 | 23.2 |
|    | 6H  | 22.0 | 22.6 | 22.5 | 23.1 | 23.6 | 22.0 | 22.6 | 22.5 | 23.1 | 23.6 |
|    | 8H  | 22.2 | 22.7 | 22.7 | 23.2 | 23.7 | 22.2 | 22.7 | 22.7 | 23.2 | 23.7 |
|    | 12H | 22.3 | 22.8 | 22.8 | 23.3 | 23.8 | 22.3 | 22.8 | 22.8 | 23.3 | 23.8 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 21.6 | 22.2 | 22.0 | 22.7 | 23.1 | 21.6 | 22.2 | 22.0 | 22.7 | 23.1 |
|     | 6H | 22.1 | 22.6 | 22.6 | 23.0 | 23.6 | 22.1 | 22.6 | 22.6 | 23.0 | 23.6 |
|     | 8H | 22.3 | 22.7 | 22.8 | 23.2 | 23.8 | 22.3 | 22.7 | 22.8 | 23.2 | 23.8 |

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 657.537 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.)