



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 03/12/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L15-840-DIM-UNV-OM-OF-SG  
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
 [MORE] 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                | 1388               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 101                |
| Total Luminaire Watts           | 13.8               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.58               |
| Spacing Criterion (90-270)      | 0.58               |
| Spacing Criterion (Diagonal)    | 0.68               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.50 ft (Diameter) |
| Luminous Width (90-270)         | 0.50 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                  | 2505             | 2505              | 2505              |
| 55                  | 922              | 922               | 922               |
| 65                  | 363              | 363               | 363               |
| 75                  | 163              | 163               | 163               |
| 85                  | 132              | 132               | 132               |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES

CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 2808.895 |
| 0.5  | 2813.095 |
| 1.0  | 2821.495 |
| 1.5  | 2826.394 |
| 2.0  | 2838.293 |
| 2.5  | 2843.193 |
| 3.0  | 2851.592 |
| 3.5  | 2853.692 |
| 4.0  | 2847.393 |
| 4.5  | 2813.795 |
| 5.0  | 2780.198 |
| 5.5  | 2744.500 |
| 6.0  | 2687.104 |
| 6.5  | 2629.708 |
| 7.0  | 2568.813 |
| 7.5  | 2500.218 |
| 8.0  | 2420.424 |
| 8.5  | 2338.530 |
| 9.0  | 2253.836 |
| 9.5  | 2171.242 |
| 10.0 | 2094.947 |
| 10.5 | 2027.752 |
| 11.0 | 1969.657 |
| 11.5 | 1919.960 |
| 12.0 | 1870.964 |
| 12.5 | 1822.667 |
| 13.0 | 1776.471 |
| 13.5 | 1733.074 |
| 14.0 | 1693.877 |
| 14.5 | 1658.879 |
| 15.0 | 1627.381 |
| 15.5 | 1597.284 |
| 16.0 | 1567.886 |
| 16.5 | 1537.088 |
| 17.0 | 1505.590 |
| 17.5 | 1474.093 |
| 18.0 | 1445.395 |
| 18.5 | 1420.197 |
| 19.0 | 1394.298 |
| 19.5 | 1367.700 |
| 20.0 | 1338.303 |
| 20.5 | 1306.805 |
| 21.0 | 1274.607 |
| 21.5 | 1241.710 |
| 22.0 | 1206.712 |
| 22.5 | 1173.115 |
| 23.0 | 1137.417 |
| 23.5 | 1101.020 |
| 24.0 | 1063.223 |
| 24.5 | 1025.425 |
| 25.0 | 988.328  |
| 25.5 | 951.231  |
| 26.0 | 916.933  |
| 26.5 | 884.036  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 853.238 |
| 27.5 | 823.840 |
| 28.0 | 797.242 |
| 28.5 | 773.444 |
| 29.0 | 751.045 |
| 29.5 | 729.347 |
| 30.0 | 702.049 |
| 30.5 | 667.891 |
| 31.0 | 628.694 |
| 31.5 | 585.577 |
| 32.0 | 541.831 |
| 32.5 | 497.804 |
| 33.0 | 453.777 |
| 33.5 | 407.580 |
| 34.0 | 360.684 |
| 34.5 | 317.917 |
| 35.0 | 276.830 |
| 35.5 | 238.053 |
| 36.0 | 200.745 |
| 36.5 | 167.358 |
| 37.0 | 139.990 |
| 37.5 | 120.741 |
| 38.0 | 110.382 |
| 38.5 | 103.382 |
| 39.0 | 96.383  |
| 39.5 | 88.964  |
| 40.0 | 81.054  |
| 40.5 | 72.655  |
| 41.0 | 64.605  |
| 41.5 | 57.116  |
| 42.0 | 50.746  |
| 42.5 | 45.707  |
| 43.0 | 41.787  |
| 43.5 | 38.777  |
| 44.0 | 36.257  |
| 44.5 | 34.228  |
| 45.0 | 32.338  |
| 45.5 | 30.728  |
| 46.0 | 29.188  |
| 46.5 | 27.788  |
| 47.0 | 26.388  |
| 47.5 | 25.058  |
| 48.0 | 23.728  |
| 48.5 | 22.398  |
| 49.0 | 21.068  |
| 49.5 | 19.879  |
| 50.0 | 18.759  |
| 50.5 | 17.639  |
| 51.0 | 16.589  |
| 51.5 | 15.539  |
| 52.0 | 14.489  |
| 52.5 | 13.579  |
| 53.0 | 12.669  |
| 53.5 | 11.829  |
| 54.0 | 11.059  |
| 54.5 | 10.359  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES

CANDELA TABULATION - (Cont.)

|      |       |
|------|-------|
| 55.0 | 9.659 |
| 55.5 | 9.099 |
| 56.0 | 8.469 |
| 56.5 | 7.979 |
| 57.0 | 7.489 |
| 57.5 | 6.999 |
| 58.0 | 6.580 |
| 58.5 | 6.160 |
| 59.0 | 5.810 |
| 59.5 | 5.460 |
| 60.0 | 5.110 |
| 60.5 | 4.760 |
| 61.0 | 4.480 |
| 61.5 | 4.200 |
| 62.0 | 3.990 |
| 62.5 | 3.780 |
| 63.0 | 3.500 |
| 63.5 | 3.360 |
| 64.0 | 3.150 |
| 64.5 | 2.940 |
| 65.0 | 2.800 |
| 65.5 | 2.590 |
| 66.0 | 2.450 |
| 66.5 | 2.310 |
| 67.0 | 2.170 |
| 67.5 | 2.030 |
| 68.0 | 1.960 |
| 68.5 | 1.820 |
| 69.0 | 1.680 |
| 69.5 | 1.610 |
| 70.0 | 1.540 |
| 70.5 | 1.400 |
| 71.0 | 1.330 |
| 71.5 | 1.260 |
| 72.0 | 1.190 |
| 72.5 | 1.120 |
| 73.0 | 1.050 |
| 73.5 | 0.980 |
| 74.0 | 0.910 |
| 74.5 | 0.840 |
| 75.0 | 0.770 |
| 75.5 | 0.770 |
| 76.0 | 0.700 |
| 76.5 | 0.630 |
| 77.0 | 0.630 |
| 77.5 | 0.560 |
| 78.0 | 0.560 |
| 78.5 | 0.490 |
| 79.0 | 0.490 |
| 79.5 | 0.420 |
| 80.0 | 0.420 |
| 80.5 | 0.350 |
| 81.0 | 0.350 |
| 81.5 | 0.350 |
| 82.0 | 0.280 |
| 82.5 | 0.280 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES

CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.280 |
| 83.5  | 0.210 |
| 84.0  | 0.210 |
| 84.5  | 0.210 |
| 85.0  | 0.210 |
| 85.5  | 0.140 |
| 86.0  | 0.140 |
| 86.5  | 0.140 |
| 87.0  | 0.140 |
| 87.5  | 0.140 |
| 88.0  | 0.070 |
| 88.5  | 0.070 |
| 89.0  | 0.070 |
| 89.5  | 0.070 |
| 90.0  | 0.070 |
| 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-L15-840-DIM-UNV-OM-OF-SG\_.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-L15-840-DIM-UNV-OM-OF-SG\_.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-L15-840-DIM-UNV-OM-OF-SG\_.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 : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 700.49  | N.A.  | 50.50  |
| 0-30    | 1154.23 | N.A.  | 83.20  |
| 0-40    | 1346.24 | N.A.  | 97.00  |
| 0-60    | 1383.97 | N.A.  | 99.70  |
| 0-80    | 1387.77 | N.A.  | 100.00 |
| 0-90    | 1387.98 | N.A.  | 100.00 |
| 10-90   | 1145.96 | N.A.  | 82.60  |
| 20-40   | 645.75  | N.A.  | 46.50  |
| 20-50   | 674.21  | N.A.  | 48.60  |
| 40-70   | 40.63   | N.A.  | 2.90   |
| 60-80   | 3.80    | N.A.  | 0.30   |
| 70-80   | 0.90    | N.A.  | 0.10   |
| 80-90   | 0.22    | N.A.  | 0.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1387.99 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 242.02 |
| 10-20   | 458.46 |
| 20-30   | 453.74 |
| 30-40   | 192.01 |
| 40-50   | 28.46  |
| 50-60   | 9.27   |
| 60-70   | 2.90   |
| 70-80   | 0.90   |
| 80-90   | 0.22   |
| 90-100  | 0.00   |
| 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 : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2  | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |
| 3  | 104 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 92  | 90  | 87  | 90  | 88  | 86  | 84  |
| 4  | 100 | 93  | 88  | 84  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 80  |
| 5  | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 75  |
| 6  | 92  | 84  | 78  | 75  | 90  | 83  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 72  |
| 7  | 88  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 70  | 77  | 73  | 70  | 75  | 72  | 69  | 68  |
| 8  | 84  | 76  | 70  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 66  | 73  | 69  | 66  | 72  | 69  | 66  | 65  |
| 9  | 81  | 72  | 67  | 63  | 80  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 63  | 62  |
| 10 | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 63  | 60  | 59  |

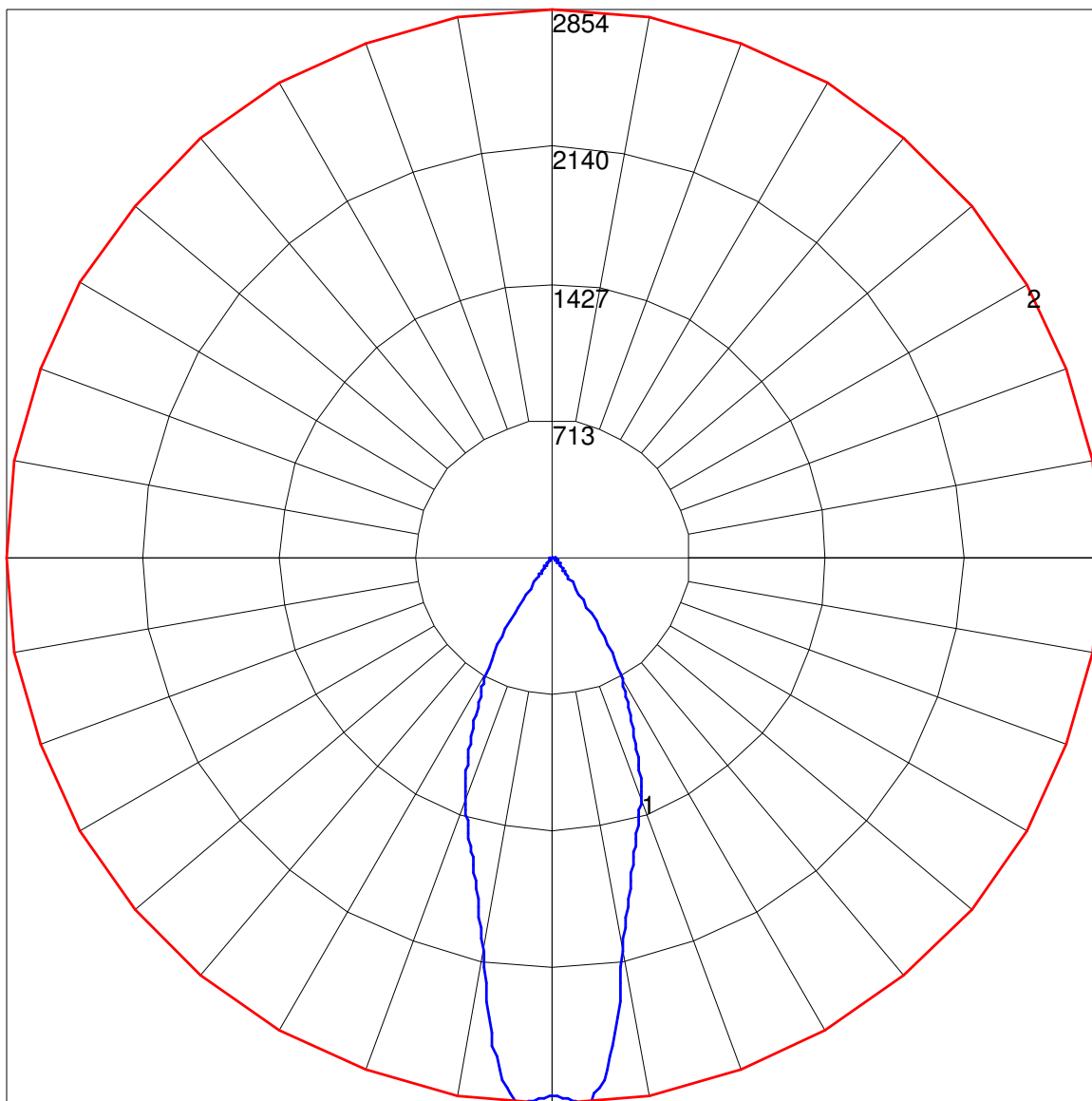
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OM-OF-SG\_.IES**

**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 |     |     |     |     | UGR Viewed Endwise |     |     |     |     |
| X=2H           | Y=2H | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 3H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 4H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 6H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 8H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 12H  | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
| 4H             | 2H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 3H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 4H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 6H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 8H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 12H  | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
| 8H             | 4H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 6H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 8H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 12H  | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
| 12H            | 4H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 6H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |
|                | 8H   | 1.2                  | 1.2 | 1.2 | 1.2 | 1.2 | 1.2                | 1.2 | 1.2 | 1.2 | 1.2 |

Maximum UGR = 1.2

POLAR GRAPH



Maximum Candela = 2853.692 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)