

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L30-940-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.03  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L30-940-CS-DIM-UNV  
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl  
[MORE] ector and top diffuser lens  
[LAMP] LED  
[BALLAST] 0-10V LED DRIVER

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2620               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 101                |
| Total Luminaire Watts           | 26                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.86               |
| Spacing Criterion (90-270)      | 0.86               |
| Spacing Criterion (Diagonal)    | 0.90               |
| 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                  | 26218            | 26218             | 26218             |
| 55                  | 2872             | 2872              | 2872              |
| 65                  | 318              | 318               | 318               |
| 75                  | 117              | 117               | 117               |
| 85                  | 99               | 99                | 99                |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 2891.880 |
| 0.5  | 2891.880 |
| 1.0  | 2891.880 |
| 1.5  | 2893.463 |
| 2.0  | 2895.046 |
| 2.5  | 2896.629 |
| 3.0  | 2898.212 |
| 3.5  | 2899.003 |
| 4.0  | 2897.420 |
| 4.5  | 2894.254 |
| 5.0  | 2887.923 |
| 5.5  | 2879.217 |
| 6.0  | 2866.554 |
| 6.5  | 2852.309 |
| 7.0  | 2834.897 |
| 7.5  | 2815.903 |
| 8.0  | 2790.577 |
| 8.5  | 2766.043 |
| 9.0  | 2737.552 |
| 9.5  | 2705.103 |
| 10.0 | 2672.654 |
| 10.5 | 2637.040 |
| 11.0 | 2599.052 |
| 11.5 | 2557.897 |
| 12.0 | 2519.909 |
| 12.5 | 2478.754 |
| 13.0 | 2435.226 |
| 13.5 | 2400.403 |
| 14.0 | 2360.040 |
| 14.5 | 2321.260 |
| 15.0 | 2286.437 |
| 15.5 | 2253.989 |
| 16.0 | 2217.583 |
| 16.5 | 2190.674 |
| 17.0 | 2161.392 |
| 17.5 | 2132.109 |
| 18.0 | 2105.992 |
| 18.5 | 2077.500 |
| 19.0 | 2052.174 |
| 19.5 | 2027.640 |
| 20.0 | 2003.106 |
| 20.5 | 1978.572 |
| 21.0 | 1954.037 |
| 21.5 | 1929.503 |
| 22.0 | 1904.969 |
| 22.5 | 1878.060 |
| 23.0 | 1852.734 |
| 23.5 | 1825.826 |
| 24.0 | 1798.126 |
| 24.5 | 1769.634 |
| 25.0 | 1739.560 |
| 25.5 | 1707.903 |
| 26.0 | 1675.454 |
| 26.5 | 1640.632 |

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**CANDELA TABULATION - (Cont.)**

|      |          |
|------|----------|
| 27.0 | 1605.017 |
| 27.5 | 1568.612 |
| 28.0 | 1529.832 |
| 28.5 | 1491.052 |
| 29.0 | 1450.689 |
| 29.5 | 1411.117 |
| 30.0 | 1369.172 |
| 30.5 | 1328.017 |
| 31.0 | 1286.072 |
| 31.5 | 1244.917 |
| 32.0 | 1202.972 |
| 32.5 | 1161.026 |
| 33.0 | 1119.872 |
| 33.5 | 1079.509 |
| 34.0 | 1038.354 |
| 34.5 | 998.783  |
| 35.0 | 963.169  |
| 35.5 | 925.180  |
| 36.0 | 887.191  |
| 36.5 | 849.994  |
| 37.0 | 812.797  |
| 37.5 | 776.154  |
| 38.0 | 740.381  |
| 38.5 | 705.242  |
| 39.0 | 670.894  |
| 39.5 | 637.337  |
| 40.0 | 604.572  |
| 40.5 | 572.994  |
| 41.0 | 542.129  |
| 41.5 | 512.529  |
| 42.0 | 483.959  |
| 42.5 | 456.654  |
| 43.0 | 430.537  |
| 43.5 | 405.765  |
| 44.0 | 382.023  |
| 44.5 | 359.704  |
| 45.0 | 338.494  |
| 45.5 | 318.313  |
| 46.0 | 299.160  |
| 46.5 | 280.878  |
| 47.0 | 263.387  |
| 47.5 | 246.609  |
| 48.0 | 230.464  |
| 48.5 | 214.794  |
| 49.0 | 199.361  |
| 49.5 | 184.245  |
| 50.0 | 169.287  |
| 50.5 | 154.408  |
| 51.0 | 139.608  |
| 51.5 | 124.650  |
| 52.0 | 109.771  |
| 52.5 | 94.655   |
| 53.0 | 79.697   |
| 53.5 | 65.293   |
| 54.0 | 51.918   |
| 54.5 | 40.125   |

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CANDELA TABULATION - (Cont.)

|      |        |
|------|--------|
| 55.0 | 30.074 |
| 55.5 | 22.318 |
| 56.0 | 16.857 |
| 56.5 | 13.217 |
| 57.0 | 10.922 |
| 57.5 | 9.339  |
| 58.0 | 8.152  |
| 58.5 | 7.281  |
| 59.0 | 6.569  |
| 59.5 | 5.936  |
| 60.0 | 5.382  |
| 60.5 | 4.986  |
| 61.0 | 4.511  |
| 61.5 | 4.195  |
| 62.0 | 3.878  |
| 62.5 | 3.561  |
| 63.0 | 3.245  |
| 63.5 | 3.007  |
| 64.0 | 2.849  |
| 64.5 | 2.612  |
| 65.0 | 2.453  |
| 65.5 | 2.216  |
| 66.0 | 2.137  |
| 66.5 | 1.979  |
| 67.0 | 1.820  |
| 67.5 | 1.662  |
| 68.0 | 1.583  |
| 68.5 | 1.425  |
| 69.0 | 1.345  |
| 69.5 | 1.266  |
| 70.0 | 1.187  |
| 70.5 | 1.108  |
| 71.0 | 1.029  |
| 71.5 | 0.950  |
| 72.0 | 0.871  |
| 72.5 | 0.791  |
| 73.0 | 0.712  |
| 73.5 | 0.712  |
| 74.0 | 0.633  |
| 74.5 | 0.633  |
| 75.0 | 0.554  |
| 75.5 | 0.554  |
| 76.0 | 0.475  |
| 76.5 | 0.475  |
| 77.0 | 0.396  |
| 77.5 | 0.396  |
| 78.0 | 0.396  |
| 78.5 | 0.317  |
| 79.0 | 0.317  |
| 79.5 | 0.317  |
| 80.0 | 0.237  |
| 80.5 | 0.237  |
| 81.0 | 0.237  |
| 81.5 | 0.237  |
| 82.0 | 0.237  |
| 82.5 | 0.158  |

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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.158 |
| 83.5  | 0.158 |
| 84.0  | 0.158 |
| 84.5  | 0.158 |
| 85.0  | 0.158 |
| 85.5  | 0.158 |
| 86.0  | 0.079 |
| 86.5  | 0.079 |
| 87.0  | 0.079 |
| 87.5  | 0.079 |
| 88.0  | 0.079 |
| 88.5  | 0.079 |
| 89.0  | 0.079 |
| 89.5  | 0.079 |
| 90.0  | 0.000 |
| 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 |

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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 |



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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 912.57  | N.A.  | 34.80  |
| 0-30    | 1699.6  | N.A.  | 64.90  |
| 0-40    | 2299.41 | N.A.  | 87.80  |
| 0-60    | 2616.69 | N.A.  | 99.90  |
| 0-80    | 2619.99 | N.A.  | 100.00 |
| 0-90    | 2620.14 | N.A.  | 100.00 |
| 10-90   | 2351.23 | N.A.  | 89.70  |
| 20-40   | 1386.84 | N.A.  | 52.90  |
| 20-50   | 1657.3  | N.A.  | 63.30  |
| 40-70   | 319.93  | N.A.  | 12.20  |
| 60-80   | 3.30    | N.A.  | 0.10   |
| 70-80   | 0.65    | N.A.  | 0.00   |
| 80-90   | 0.15    | 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   | 2620.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 268.91 |
| 10-20   | 643.65 |
| 20-30   | 787.04 |
| 30-40   | 599.81 |
| 40-50   | 270.46 |
| 50-60   | 46.82  |
| 60-70   | 2.65   |
| 70-80   | 0.65   |
| 80-90   | 0.15   |
| 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   |

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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  | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 85  | 82  | 86  | 84  | 81  | 80  |
| 4  | 96  | 88  | 83  | 78  | 94  | 87  | 82  | 78  | 85  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |
| 5  | 91  | 82  | 76  | 72  | 89  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 70  | 68  |
| 6  | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 75  | 70  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 63  |
| 7  | 82  | 72  | 66  | 62  | 80  | 71  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 59  |
| 8  | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |
| 9  | 74  | 64  | 58  | 53  | 73  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |
| 10 | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 50  | 57  | 53  | 50  | 48  |

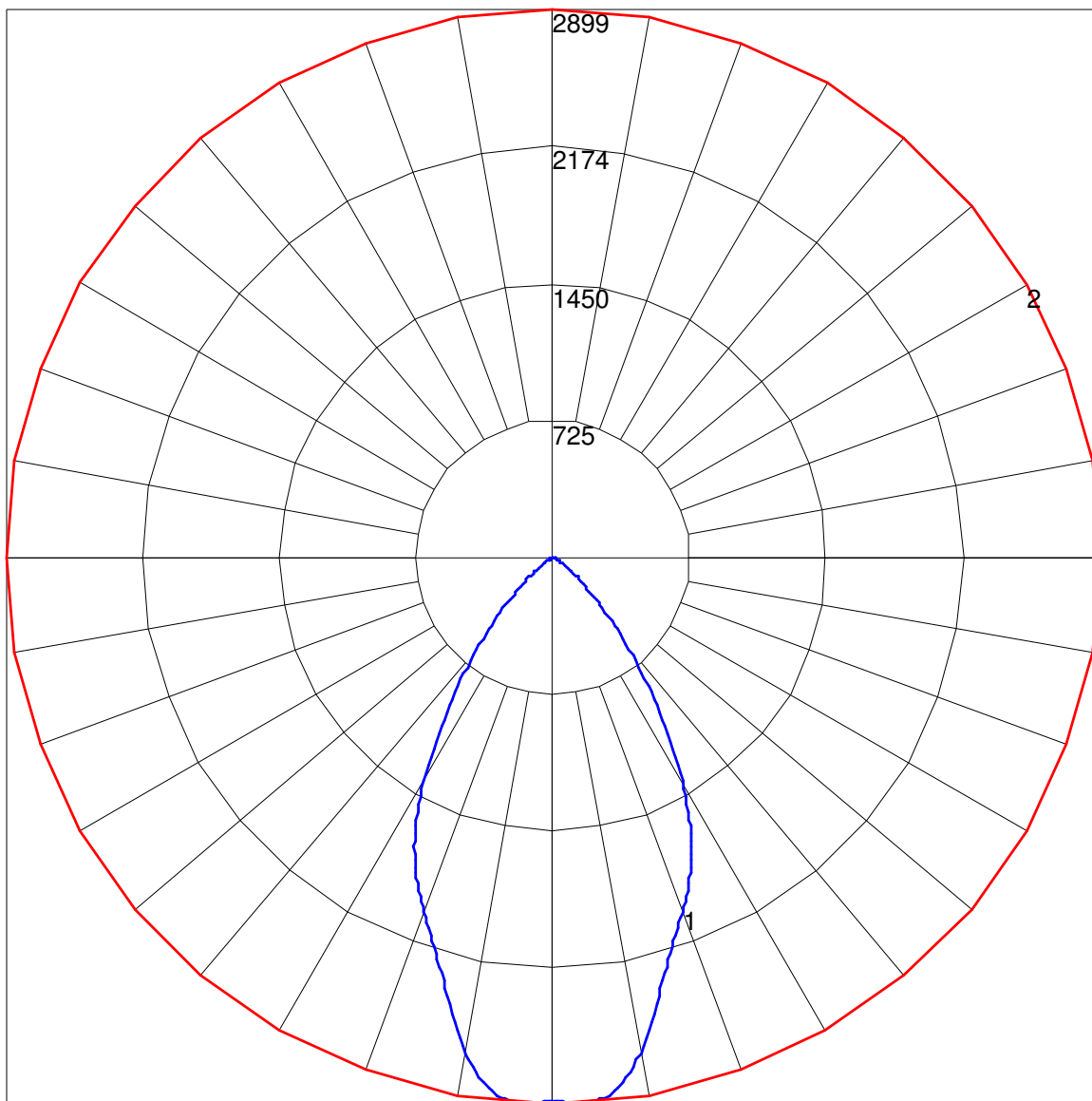
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**UGR TABLE - CORRECTED**

|                |      |                      |     |     |     |     |                    |     |     |     |     |
|----------------|------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| 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 | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 3H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 4H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 6H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 8H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 12H  | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
| 4H             | 2H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 3H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 4H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 6H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 8H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 12H  | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
| 8H             | 4H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 6H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 8H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 12H  | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
| 12H            | 4H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 6H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|                | 8H   | 3.4                  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |

Maximum UGR = 3.4

POLAR GRAPH



Maximum Candela = 2899.003 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.)