



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HM6DR-TL-L30-840-DIM-UNV-LM-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 12326812.09  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 08-01-2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] HM6DR-TL-L30-840-DIM-UNV-LM-OF-WH  
[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl  
[MORE] astic optic, clear glass 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                | 3660               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 98                 |
| Total Luminaire Watts           | 37.4               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.60               |
| Spacing Criterion (90-270)      | 0.60               |
| Spacing Criterion (Diagonal)    | 0.56               |
| 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                  | 16347            | 16347             | 16347             |
| 55                  | 11969            | 11969             | 11969             |
| 65                  | 9753             | 9753              | 9753              |
| 75                  | 7938             | 7938              | 7938              |
| 85                  | 5222             | 5222              | 5222              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 8641.123 |
| 0.5  | 8637.139 |
| 1.0  | 8625.187 |
| 1.5  | 8607.259 |
| 2.0  | 8583.356 |
| 2.5  | 8549.493 |
| 3.0  | 8511.645 |
| 3.5  | 8467.822 |
| 4.0  | 8416.031 |
| 4.5  | 8362.248 |
| 5.0  | 8302.489 |
| 5.5  | 8234.763 |
| 6.0  | 8161.060 |
| 6.5  | 8079.390 |
| 7.0  | 7991.744 |
| 7.5  | 7896.130 |
| 8.0  | 7790.556 |
| 8.5  | 7677.014 |
| 9.0  | 7557.496 |
| 9.5  | 7430.011 |
| 10.0 | 7292.566 |
| 10.5 | 7147.153 |
| 11.0 | 6991.780 |
| 11.5 | 6824.455 |
| 12.0 | 6651.155 |
| 12.5 | 6467.894 |
| 13.0 | 6276.666 |
| 13.5 | 6075.478 |
| 14.0 | 5868.314 |
| 14.5 | 5653.183 |
| 15.0 | 5434.067 |
| 15.5 | 5210.967 |
| 16.0 | 4987.868 |
| 16.5 | 4762.776 |
| 17.0 | 4543.661 |
| 17.5 | 4324.545 |
| 18.0 | 4103.438 |
| 18.5 | 3886.314 |
| 19.0 | 3671.182 |
| 19.5 | 3464.019 |
| 20.0 | 3262.831 |
| 20.5 | 3069.610 |
| 21.0 | 2888.342 |
| 21.5 | 2715.042 |
| 22.0 | 2541.741 |
| 22.5 | 2378.400 |
| 23.0 | 2223.027 |
| 23.5 | 2075.622 |
| 24.0 | 1938.376 |
| 24.5 | 1808.501 |
| 25.0 | 1687.190 |
| 25.5 | 1572.852 |
| 26.0 | 1466.879 |
| 26.5 | 1367.680 |

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**CANDELA TABULATION - (Cont.)**

|             |          |
|-------------|----------|
| <b>27.0</b> | 1275.452 |
| <b>27.5</b> | 1189.997 |
| <b>28.0</b> | 1110.319 |
| <b>28.5</b> | 1036.616 |
| <b>29.0</b> | 968.292  |
| <b>29.5</b> | 904.549  |
| <b>30.0</b> | 845.587  |
| <b>30.5</b> | 790.609  |
| <b>31.0</b> | 739.615  |
| <b>31.5</b> | 692.206  |
| <b>32.0</b> | 647.985  |
| <b>32.5</b> | 606.950  |
| <b>33.0</b> | 568.705  |
| <b>33.5</b> | 533.049  |
| <b>34.0</b> | 500.181  |
| <b>34.5</b> | 469.704  |
| <b>35.0</b> | 441.219  |
| <b>35.5</b> | 415.124  |
| <b>36.0</b> | 390.823  |
| <b>36.5</b> | 368.712  |
| <b>37.0</b> | 348.195  |
| <b>37.5</b> | 329.470  |
| <b>38.0</b> | 312.539  |
| <b>38.5</b> | 296.802  |
| <b>39.0</b> | 282.460  |
| <b>39.5</b> | 269.313  |
| <b>40.0</b> | 257.361  |
| <b>40.5</b> | 246.206  |
| <b>41.0</b> | 236.047  |
| <b>41.5</b> | 226.685  |
| <b>42.0</b> | 217.920  |
| <b>42.5</b> | 209.953  |
| <b>43.0</b> | 202.383  |
| <b>43.5</b> | 195.411  |
| <b>44.0</b> | 189.037  |
| <b>44.5</b> | 182.862  |
| <b>45.0</b> | 177.085  |
| <b>45.5</b> | 171.707  |
| <b>46.0</b> | 166.727  |
| <b>46.5</b> | 161.946  |
| <b>47.0</b> | 157.365  |
| <b>47.5</b> | 152.983  |
| <b>48.0</b> | 148.999  |
| <b>48.5</b> | 145.015  |
| <b>49.0</b> | 141.230  |
| <b>49.5</b> | 137.644  |
| <b>50.0</b> | 134.258  |
| <b>50.5</b> | 130.872  |
| <b>51.0</b> | 127.685  |
| <b>51.5</b> | 124.498  |
| <b>52.0</b> | 121.510  |
| <b>52.5</b> | 118.721  |
| <b>53.0</b> | 115.733  |
| <b>53.5</b> | 112.944  |
| <b>54.0</b> | 110.355  |
| <b>54.5</b> | 107.765  |

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**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 55.0 | 105.175 |
| 55.5 | 102.586 |
| 56.0 | 100.196 |
| 56.5 | 97.805  |
| 57.0 | 95.415  |
| 57.5 | 93.025  |
| 58.0 | 90.833  |
| 58.5 | 88.642  |
| 59.0 | 86.451  |
| 59.5 | 84.459  |
| 60.0 | 82.467  |
| 60.5 | 80.276  |
| 61.0 | 78.284  |
| 61.5 | 76.292  |
| 62.0 | 74.300  |
| 62.5 | 72.507  |
| 63.0 | 70.515  |
| 63.5 | 68.723  |
| 64.0 | 66.930  |
| 64.5 | 65.137  |
| 65.0 | 63.145  |
| 65.5 | 61.352  |
| 66.0 | 59.560  |
| 66.5 | 57.966  |
| 67.0 | 56.173  |
| 67.5 | 54.381  |
| 68.0 | 52.787  |
| 68.5 | 51.193  |
| 69.0 | 49.401  |
| 69.5 | 47.807  |
| 70.0 | 46.213  |
| 70.5 | 44.620  |
| 71.0 | 43.226  |
| 71.5 | 41.632  |
| 72.0 | 40.038  |
| 72.5 | 38.644  |
| 73.0 | 37.050  |
| 73.5 | 35.656  |
| 74.0 | 34.262  |
| 74.5 | 32.867  |
| 75.0 | 31.473  |
| 75.5 | 30.079  |
| 76.0 | 28.684  |
| 76.5 | 27.290  |
| 77.0 | 25.895  |
| 77.5 | 24.700  |
| 78.0 | 23.306  |
| 78.5 | 22.111  |
| 79.0 | 20.916  |
| 79.5 | 19.521  |
| 80.0 | 18.326  |
| 80.5 | 17.131  |
| 81.0 | 15.936  |
| 81.5 | 14.741  |
| 82.0 | 13.545  |
| 82.5 | 12.350  |

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CANDELA TABULATION - (Cont.)

|       |        |
|-------|--------|
| 83.0  | 11.354 |
| 83.5  | 10.159 |
| 84.0  | 9.163  |
| 84.5  | 7.968  |
| 85.0  | 6.972  |
| 85.5  | 5.976  |
| 86.0  | 4.980  |
| 86.5  | 4.183  |
| 87.0  | 3.386  |
| 87.5  | 2.789  |
| 88.0  | 2.191  |
| 88.5  | 1.793  |
| 89.0  | 1.394  |
| 89.5  | 0.996  |
| 90.0  | 0.598  |
| 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  
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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 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HM6DR-TL-L30-840-DIM-UNV-LM-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**  
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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 2222.38 | N.A.  | 60.70  |
| 0-30    | 3027.25 | N.A.  | 82.70  |
| 0-40    | 3319.93 | N.A.  | 90.70  |
| 0-60    | 3555.2  | N.A.  | 97.10  |
| 0-80    | 3651.48 | N.A.  | 99.80  |
| 0-90    | 3659.99 | N.A.  | 100.00 |
| 10-90   | 2899.03 | N.A.  | 79.20  |
| 20-40   | 1097.55 | N.A.  | 30.00  |
| 20-50   | 1238.06 | N.A.  | 33.80  |
| 40-70   | 298.11  | N.A.  | 8.10   |
| 60-80   | 96.28   | N.A.  | 2.60   |
| 70-80   | 33.43   | N.A.  | 0.90   |
| 80-90   | 8.51    | N.A.  | 0.20   |
| 90-110  | 0.02    | N.A.  | 0.00   |
| 90-120  | 0.02    | N.A.  | 0.00   |
| 90-130  | 0.02    | N.A.  | 0.00   |
| 90-150  | 0.02    | N.A.  | 0.00   |
| 90-180  | 0.02    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 3660.00 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 760.95  |
| 10-20   | 1461.42 |
| 20-30   | 804.87  |
| 30-40   | 292.68  |
| 40-50   | 140.51  |
| 50-60   | 94.77   |
| 60-70   | 62.84   |
| 70-80   | 33.43   |
| 80-90   | 8.51    |
| 90-100  | 0.02    |
| 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  | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2  | 109 | 104 | 100 | 97  | 107 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3  | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 86  | 90  | 87  | 85  | 84  |
| 4  | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 83  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 79  |
| 5  | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 75  |
| 6  | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 72  |
| 7  | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 69  |
| 8  | 85  | 77  | 71  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9  | 82  | 73  | 68  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 71  | 67  | 64  | 63  |
| 10 | 79  | 71  | 66  | 62  | 78  | 70  | 65  | 62  | 69  | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 62  | 61  |

**IES INDOOR REPORT**  
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**UGR TABLE - CORRECTED**

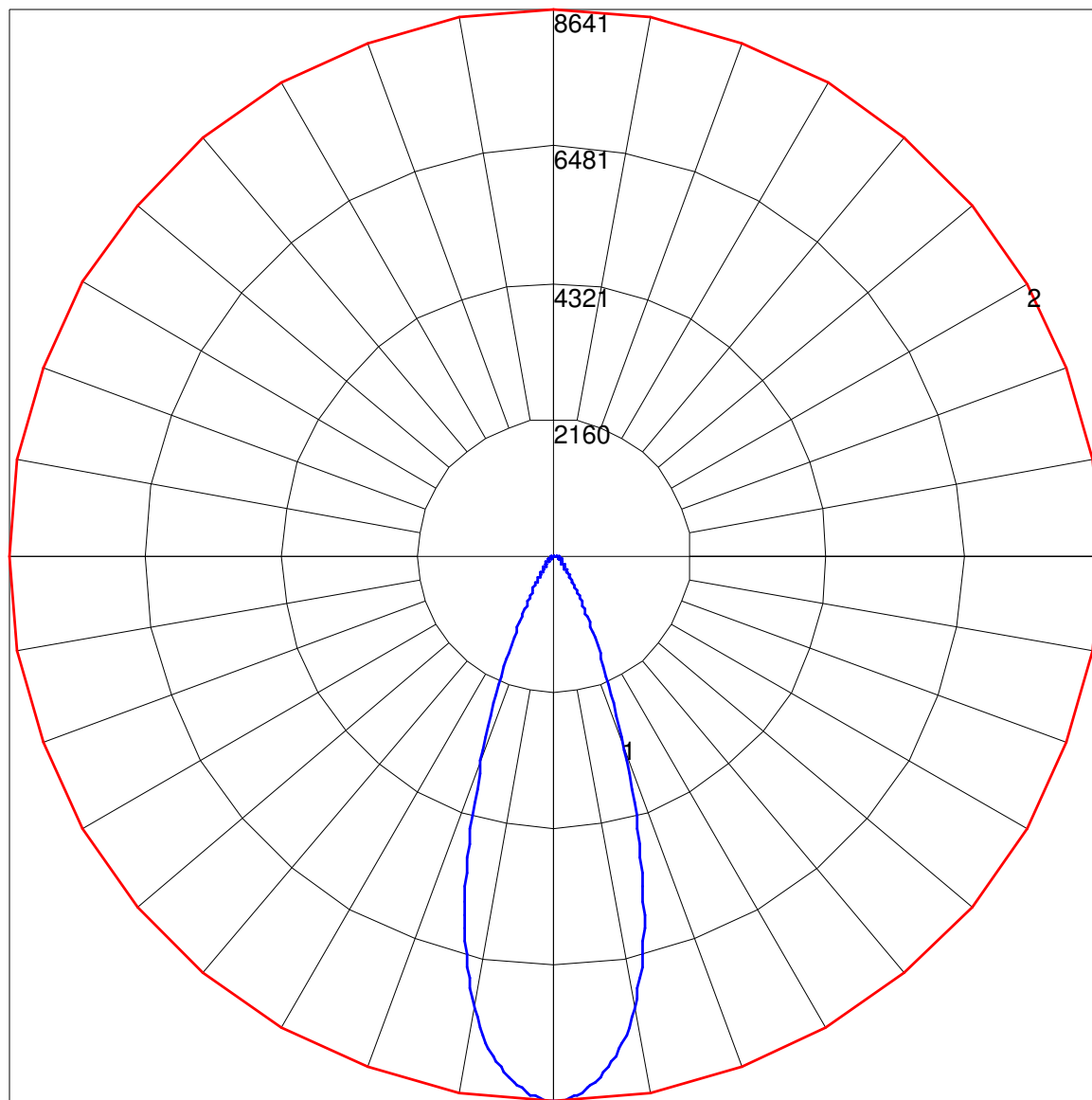
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 14.1                 | 15.1 | 14.4 | 15.4 | 15.7 | 14.1               | 15.1 | 14.4 | 15.4 | 15.7 |
|           | 3H   | 15.5                 | 16.4 | 15.9 | 16.7 | 17.1 | 15.5               | 16.4 | 15.9 | 16.7 | 17.1 |
|           | 4H   | 16.0                 | 16.8 | 16.4 | 17.2 | 17.6 | 16.0               | 16.8 | 16.4 | 17.2 | 17.6 |
|           | 6H   | 16.3                 | 17.1 | 16.8 | 17.5 | 17.9 | 16.3               | 17.1 | 16.8 | 17.5 | 17.9 |
|           | 8H   | 16.4                 | 17.1 | 16.9 | 17.5 | 17.9 | 16.4               | 17.1 | 16.9 | 17.5 | 17.9 |
|           | 12H  | 16.5                 | 17.1 | 16.9 | 17.5 | 18.0 | 16.5               | 17.1 | 16.9 | 17.5 | 18.0 |
| 4H        | 2H   | 14.5                 | 15.3 | 14.9 | 15.7 | 16.1 | 14.5               | 15.3 | 14.9 | 15.7 | 16.1 |
|           | 3H   | 16.1                 | 16.8 | 16.5 | 17.2 | 17.6 | 16.1               | 16.8 | 16.5 | 17.2 | 17.6 |
|           | 4H   | 16.7                 | 17.3 | 17.1 | 17.7 | 18.2 | 16.7               | 17.3 | 17.1 | 17.7 | 18.2 |
|           | 6H   | 17.2                 | 17.7 | 17.6 | 18.1 | 18.6 | 17.2               | 17.7 | 17.6 | 18.1 | 18.6 |
|           | 8H   | 17.3                 | 17.8 | 17.8 | 18.2 | 18.7 | 17.3               | 17.8 | 17.8 | 18.2 | 18.7 |
|           | 12H  | 17.4                 | 17.8 | 17.8 | 18.3 | 18.7 | 17.4               | 17.8 | 17.8 | 18.3 | 18.7 |
| 8H        | 4H   | 16.9                 | 17.4 | 17.4 | 17.8 | 18.3 | 16.9               | 17.4 | 17.4 | 17.8 | 18.3 |
|           | 6H   | 17.4                 | 17.8 | 18.0 | 18.3 | 18.8 | 17.4               | 17.8 | 18.0 | 18.3 | 18.8 |
|           | 8H   | 17.6                 | 18.0 | 18.2 | 18.5 | 19.0 | 17.6               | 18.0 | 18.2 | 18.5 | 19.0 |
|           | 12H  | 17.8                 | 18.1 | 18.3 | 18.6 | 19.1 | 17.8               | 18.1 | 18.3 | 18.6 | 19.1 |
| 12H       | 4H   | 16.9                 | 17.3 | 17.4 | 17.8 | 18.2 | 16.9               | 17.3 | 17.4 | 17.8 | 18.2 |
|           | 6H   | 17.5                 | 17.8 | 18.0 | 18.3 | 18.8 | 17.5               | 17.8 | 18.0 | 18.3 | 18.8 |
|           | 8H   | 17.7                 | 18.0 | 18.2 | 18.5 | 19.1 | 17.7               | 18.0 | 18.2 | 18.5 | 19.1 |

Maximum UGR = 19.1

POLAR GRAPH



Maximum Candela = 8641.123 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.)