

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

RG1817GV 55L35K EX CD MWI

Nom 18 inch diam round Banco Pendant decorative luminaire

### **Test Number**

SP-00556\_1

### **Test Date**

The results contained in this report pertain only to this IES file.

### Summary of Results

#### Power

|             |      |
|-------------|------|
| Input Watts | 39 W |
|-------------|------|

#### Lumen Output

|               |             |
|---------------|-------------|
| Output Lumens | 4092        |
| Efficacy      | 104.92 lm/W |

#### Luminous Dimensions

|                 |      |
|-----------------|------|
| 0° - 180° Size  | -1.5 |
| 90° - 270° Size | -1.5 |
| Height          | 0    |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 1.27 |
| Two luminaires, plane 90° | 1.29 |
| Four luminaires           | 1.26 |

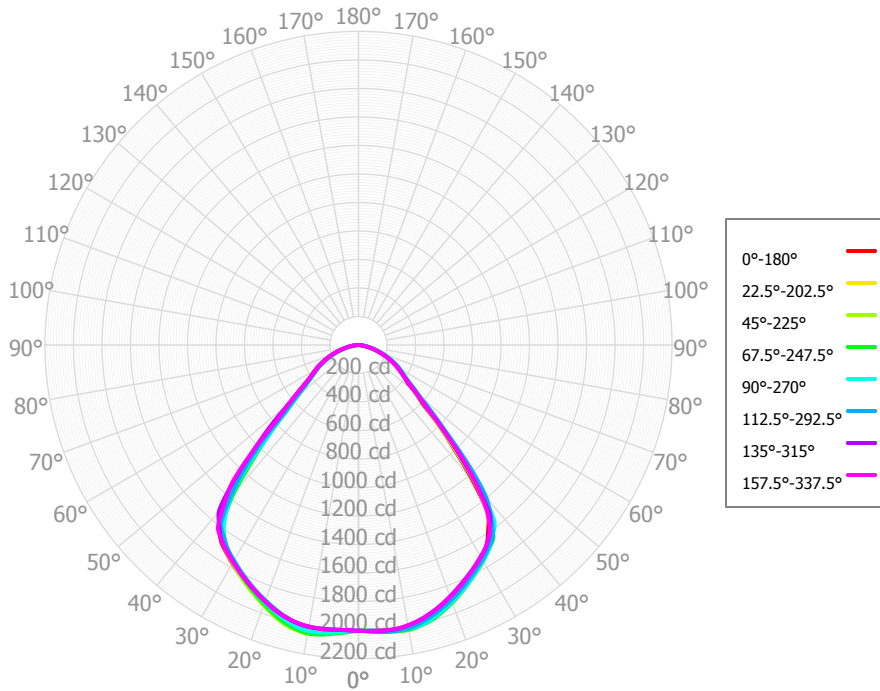
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 87° |
| 90° - 270° | 87° |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-00556_1   |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981             |
| MANUFAC   | Spectrum Lighting  |
| ISSUEDATE | 4/30/2019  |
| UPDATE    | 6/12/2019  |
| LUMCAT    | RG1817GV 55L35K EX CD MWI                                  |
| LUMINAIRE | Nom 18 inch diam round Banco Pendant decorative luminaire  |
| LAMPCAT   | N/A  |
| LAMP      | N/A; CRI: 80   |
| OTHER     | CCT Output Multipliers; 27K x 0.97, 30K x 0.99, 40K x 1.03 |
| OTHER     | Total luminaire wattages is approximate                    |
| OTHER     | This report prepared by Spectrum Lighting                  |
| _CRI      | 80   |
| _CCTMULT  | 27K x 0.97, 30K x 0.99, 40K x 1.03                         |
| _LAMPMULT | 15L x 0.27, 27L x 0.46, 37L x 0.68                         |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens   | % Fixture | Zone              | Lumens   | % Fixture |
|-----------------|----------|-----------|-------------------|----------|-----------|
| 0.00° - 10.00°  | 195.72   | 4.78%     | 90.00° - 100.00°  | 0.12     | 0.00%     |
| 10.00° - 20.00° | 558.94   | 13.66%    | 100.00° - 110.00° | 0.00     | 0.00%     |
| 20.00° - 30.00° | 844.69   | 20.64%    | 100.00° - 120.00° | 0.00     | 0.00%     |
| 30.00° - 40.00° | 1,008.16 | 24.64%    | 120.00° - 130.00° | 0.00     | 0.00%     |
| 40.00° - 50.00° | 705.44   | 17.24%    | 130.00° - 140.00° | 0.00     | 0.00%     |
| 50.00° - 60.00° | 379.28   | 9.27%     | 140.00° - 150.00° | 0.00     | 0.00%     |
| 60.00° - 70.00° | 254.06   | 6.21%     | 150.00° - 160.00° | 0.00     | 0.00%     |
| 70.00° - 80.00° | 122.49   | 2.99%     | 160.00° - 170.00° | 0.00     | 0.00%     |
| 80.00° - 90.00° | 22.98    | 0.56%     | 170.00° - 180.00° | 0.00     | 0.00%     |
| 0.00° - 90.00°  | 4,091.77 | 100.00%   | 0.00° - 180.00°   | 4,091.89 | 100.00%   |

### Candela Distribution

|         | 0.00°    | 22.50°   | 45.00°   | 67.50°   | 90.00°   | 112.50°  | 135.00°  | 157.50°  | 180.00°  | 202.50°  | 225.00°  | 247.50°  | 270.00°  | 292.50°  | 315.00°  | 337.50°  | 360.00°  |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.00°   | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 | 2,005.82 |
| 2.50°   | 2,007.26 | 2,007.62 | 2,009.98 | 2,007.53 | 2,006.30 | 2,002.04 | 2,002.79 | 2,003.14 | 2,005.61 | 2,010.69 | 2,016.00 | 2,019.24 | 2,012.36 | 2,012.89 | 2,011.29 | 2,007.30 | 2,007.26 |
| 5.00°   | 2,012.42 | 2,019.38 | 2,016.45 | 2,014.85 | 2,012.30 | 2,003.67 | 2,005.46 | 2,006.30 | 2,011.74 | 2,020.88 | 2,031.06 | 2,033.06 | 2,025.58 | 2,022.47 | 2,013.10 | 2,010.81 | 2,012.42 |
| 7.50°   | 2,018.97 | 2,025.37 | 2,028.85 | 2,022.21 | 2,021.80 | 2,010.15 | 2,006.87 | 2,010.90 | 2,016.83 | 2,034.79 | 2,044.82 | 2,049.29 | 2,034.33 | 2,024.29 | 2,010.57 | 2,009.79 | 2,018.97 |
| 10.00°  | 2,009.39 | 2,026.32 | 2,029.56 | 2,029.59 | 2,020.32 | 2,007.38 | 2,007.21 | 2,005.70 | 2,020.43 | 2,037.62 | 2,057.96 | 2,053.01 | 2,036.91 | 2,025.13 | 2,019.14 | 1,997.75 | 2,009.39 |
| 12.50°  | 1,992.63 | 2,011.64 | 2,015.06 | 2,016.58 | 2,013.79 | 1,997.85 | 1,996.56 | 1,998.25 | 2,014.39 | 2,032.10 | 2,046.36 | 2,038.97 | 2,025.13 | 2,011.05 | 1,976.97 | 1,980.15 | 1,992.63 |
| 15.00°  | 1,963.52 | 1,985.24 | 1,990.07 | 1,996.00 | 1,988.32 | 1,974.47 | 1,977.91 | 1,975.99 | 1,996.19 | 2,009.36 | 2,024.55 | 2,014.31 | 1,995.79 | 1,972.98 | 1,948.75 | 1,951.25 | 1,963.52 |
| 17.50°  | 1,929.84 | 1,950.55 | 1,953.32 | 1,962.27 | 1,955.58 | 1,942.44 | 1,949.59 | 1,951.00 | 1,969.49 | 1,975.52 | 1,987.38 | 1,976.31 | 1,961.49 | 1,940.43 | 1,915.44 | 1,919.11 | 1,929.84 |
| 20.00°  | 1,890.89 | 1,910.38 | 1,914.50 | 1,924.53 | 1,917.20 | 1,907.31 | 1,915.25 | 1,914.09 | 1,933.58 | 1,936.33 | 1,944.76 | 1,934.87 | 1,921.95 | 1,904.81 | 1,877.59 | 1,881.31 | 1,890.89 |
| 22.50°  | 1,850.34 | 1,868.18 | 1,873.63 | 1,881.50 | 1,877.04 | 1,870.49 | 1,878.49 | 1,875.58 | 1,894.36 | 1,894.10 | 1,902.08 | 1,889.70 | 1,881.08 | 1,864.85 | 1,837.07 | 1,842.52 | 1,850.34 |
| 25.00°  | 1,807.30 | 1,824.85 | 1,830.65 | 1,837.11 | 1,833.91 | 1,830.47 | 1,840.41 | 1,837.62 | 1,852.06 | 1,850.67 | 1,859.38 | 1,845.09 | 1,838.98 | 1,822.36 | 1,796.90 | 1,802.19 | 1,807.30 |
| 27.50°  | 1,763.62 | 1,780.52 | 1,785.87 | 1,793.64 | 1,790.01 | 1,788.96 | 1,799.77 | 1,799.72 | 1,810.57 | 1,806.66 | 1,813.07 | 1,801.02 | 1,796.52 | 1,780.71 | 1,756.91 | 1,760.97 | 1,763.62 |
| 30.00°  | 1,717.97 | 1,735.71 | 1,738.82 | 1,750.34 | 1,746.49 | 1,746.28 | 1,757.94 | 1,759.84 | 1,769.76 | 1,763.74 | 1,765.94 | 1,755.97 | 1,753.75 | 1,739.48 | 1,714.67 | 1,718.56 | 1,717.97 |
| 32.50°  | 1,671.94 | 1,682.52 | 1,690.10 | 1,700.80 | 1,703.05 | 1,703.16 | 1,716.74 | 1,719.86 | 1,726.50 | 1,721.26 | 1,719.10 | 1,710.11 | 1,705.71 | 1,692.75 | 1,671.49 | 1,668.43 | 1,671.94 |
| 35.00°  | 1,586.52 | 1,625.86 | 1,607.92 | 1,650.33 | 1,637.91 | 1,647.10 | 1,675.79 | 1,671.49 | 1,681.52 | 1,660.65 | 1,672.32 | 1,642.10 | 1,654.03 | 1,643.65 | 1,600.47 | 1,609.62 | 1,586.52 |
| 37.50°  | 1,495.31 | 1,480.25 | 1,504.04 | 1,518.06 | 1,569.37 | 1,586.72 | 1,604.80 | 1,620.60 | 1,597.23 | 1,593.88 | 1,562.03 | 1,558.39 | 1,542.60 | 1,530.09 | 1,519.44 | 1,487.64 | 1,495.31 |
| 40.00°  | 1,255.40 | 1,304.00 | 1,291.05 | 1,377.21 | 1,351.86 | 1,406.40 | 1,523.86 | 1,470.86 | 1,489.06 | 1,400.83 | 1,443.08 | 1,365.44 | 1,395.95 | 1,393.47 | 1,306.39 | 1,304.36 | 1,255.40 |
| 42.50°  | 999.32   | 1,060.60 | 1,017.74 | 1,105.36 | 1,118.16 | 1,193.67 | 1,298.28 | 1,314.02 | 1,266.13 | 1,172.19 | 1,171.46 | 1,106.26 | 1,160.50 | 1,147.81 | 1,054.56 | 1,082.80 | 999.32   |
| 45.00°  | 803.24   | 798.39   | 811.89   | 824.95   | 887.75   | 953.87   | 1,033.86 | 1,032.44 | 981.99   | 936.52   | 886.05   | 883.43   | 879.18   | 870.29   | 844.77   | 828.30   | 803.24   |
| 47.50°  | 611.04   | 649.42   | 637.60   | 680.06   | 657.58   | 708.32   | 825.09   | 764.52   | 780.47   | 699.29   | 724.36   | 679.95   | 699.47   | 700.62   | 644.82   | 652.92   | 611.04   |
| 50.00°  | 520.67   | 526.79   | 529.38   | 539.47   | 556.28   | 582.79   | 628.07   | 632.78   | 616.16   | 581.31   | 568.56   | 555.27   | 564.01   | 557.23   | 535.67   | 536.05   | 520.67   |
| 52.50°  | 433.07   | 457.32   | 447.96   | 470.51   | 459.40   | 477.66   | 521.75   | 509.18   | 513.00   | 483.59   | 490.25   | 466.00   | 477.90   | 474.38   | 443.77   | 453.94   | 433.07   |
| 55.00°  | 393.03   | 397.33   | 399.55   | 403.07   | 412.96   | 420.29   | 430.72   | 440.88   | 432.84   | 427.99   | 414.04   | 411.43   | 409.67   | 402.94   | 395.40   | 393.85   | 393.03   |
| 57.50°  | 353.13   | 360.86   | 362.21   | 369.05   | 366.96   | 368.70   | 384.44   | 377.91   | 386.16   | 377.88   | 377.71   | 369.85   | 367.10   | 364.33   | 353.10   | 351.18   | 353.13   |
| 60.00°  | 316.41   | 327.43   | 326.08   | 334.74   | 332.56   | 332.31   | 343.52   | 343.20   | 350.24   | 339.75   | 341.23   | 331.65   | 332.44   | 330.25   | 316.03   | 318.21   | 316.41   |
| 62.50°  | 279.60   | 288.90   | 290.28   | 297.09   | 297.80   | 297.07   | 306.66   | 307.65   | 312.26   | 302.64   | 302.32   | 294.51   | 296.06   | 291.42   | 279.44   | 282.36   | 279.60   |
| 65.00°  | 241.77   | 249.90   | 252.61   | 259.47   | 258.57   | 260.07   | 270.12   | 268.71   | 273.75   | 262.84   | 263.39   | 255.46   | 259.27   | 252.11   | 240.75   | 245.14   | 241.77   |
| 67.50°  | 204.20   | 213.05   | 214.54   | 222.03   | 220.12   | 223.02   | 232.69   | 230.80   | 235.62   | 223.11   | 224.21   | 215.92   | 220.24   | 214.22   | 202.13   | 207.85   | 204.20   |
| 70.00°  | 167.83   | 176.33   | 177.69   | 185.10   | 185.32   | 186.05   | 195.56   | 195.40   | 197.62   | 186.05   | 186.38   | 179.08   | 181.13   | 176.66   | 166.56   | 170.54   | 167.83   |
| 72.50°  | 132.99   | 140.06   | 142.03   | 149.38   | 150.72   | 150.81   | 160.04   | 160.15   | 160.70   | 150.49   | 152.02   | 143.23   | 146.58   | 140.67   | 132.42   | 135.90   | 132.99   |
| 75.00°  | 100.15   | 107.90   | 110.29   | 117.20   | 116.39   | 118.94   | 127.28   | 125.02   | 126.20   | 117.90   | 119.11   | 110.39   | 113.91   | 106.86   | 101.21   | 103.48   | 100.15   |
| 77.50°  | 73.69    | 79.70    | 81.29    | 87.29    | 87.27    | 89.65    | 97.12    | 95.67    | 95.00    | 88.64    | 87.79    | 82.21    | 83.76    | 75.66    | 73.74    | 75.18    | 73.69    |
| 80.00°  | 49.61    | 53.53    | 55.15    | 58.97    | 60.89    | 62.55    | 68.91    | 68.07    | 67.07    | 61.70    | 60.32    | 57.03    | 57.65    | 52.74    | 48.28    | 49.77    | 49.61    |
| 82.50°  | 27.88    | 30.49    | 32.80    | 35.67    | 37.46    | 38.98    | 44.28    | 42.69    | 43.42    | 37.97    | 38.30    | 33.55    | 33.38    | 32.28    | 25.71    | 27.04    | 27.88    |
| 85.00°  | 10.28    | 12.58    | 14.39    | 17.84    | 17.89    | 20.00    | 23.19    | 21.17    | 23.13    | 18.66    | 17.47    | 13.41    | 15.29    | 12.67    | 9.61     | 10.40    | 10.28    |
| 87.50°  | 1.83     | 2.32     | 2.98     | 3.49     | 5.01     | 4.84     | 6.31     | 6.12     | 7.11     | 4.11     | 4.25     | 3.27     | 3.42     | 2.34     | 2.12     | 1.77     | 1.83     |
| 90.00°  | 1.58     | 0.63     | 1.37     | 0.71     | 1.13     | 0.60     | 0.56     | 0.84     | 0.65     | 1.22     | 0.61     | 1.08     | 0.66     | 0.89     | 0.94     | 0.81     | 1.58     |
| 92.50°  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 95.00°  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 97.50°  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 100.00° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 102.50° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 105.00° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 107.50° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 110.00° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| 112.50° | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

|            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | <b>pfc</b> | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 20%   | 0%    |
|            | <b>pcc</b> | 80%   | 80%   | 80%   | 80%   | 70%   | 70%   | 70%   | 70%   | 50%   | 50%   | 50%   | 30%   | 30%   | 30%   | 10%   | 10%   | 0%    |
|            | <b>pw</b>  | 70%   | 50%   | 30%   | 10%   | 70%   | 50%   | 30%   | 10%   | 50%   | 30%   | 10%   | 50%   | 30%   | 10%   | 50%   | 30%   | 30%   |
| <b>RCR</b> | <b>0</b>   | 4,871 | 4,871 | 4,871 | 4,871 | 4,758 | 4,758 | 4,758 | 4,758 | 4,546 | 4,546 | 4,546 | 4,353 | 4,353 | 4,353 | 4,175 | 4,175 | 4,092 |
|            | <b>1</b>   | 4,542 | 4,385 | 4,244 | 4,117 | 4,435 | 4,294 | 4,166 | 4,051 | 4,123 | 4,020 | 3,924 | 3,967 | 3,883 | 3,806 | 3,823 | 3,756 | 3,679 |
|            | <b>2</b>   | 4,208 | 3,930 | 3,701 | 3,509 | 4,107 | 3,856 | 3,646 | 3,468 | 3,716 | 3,540 | 3,389 | 3,587 | 3,442 | 3,314 | 3,468 | 3,348 | 3,242 |
|            | <b>3</b>   | 3,898 | 3,536 | 3,256 | 3,033 | 3,804 | 3,474 | 3,215 | 3,007 | 3,358 | 3,138 | 2,956 | 3,251 | 3,064 | 2,907 | 3,151 | 2,994 | 2,859 |
|            | <b>4</b>   | 3,616 | 3,197 | 2,890 | 2,655 | 3,530 | 3,145 | 2,859 | 2,638 | 3,048 | 2,800 | 2,604 | 2,958 | 2,744 | 2,571 | 2,874 | 2,690 | 2,538 |
|            | <b>5</b>   | 3,361 | 2,904 | 2,585 | 2,350 | 3,282 | 2,861 | 2,562 | 2,338 | 2,779 | 2,516 | 2,314 | 2,703 | 2,472 | 2,291 | 2,632 | 2,430 | 2,268 |
|            | <b>6</b>   | 3,131 | 2,651 | 2,329 | 2,097 | 3,059 | 2,614 | 2,310 | 2,089 | 2,545 | 2,274 | 2,072 | 2,480 | 2,240 | 2,056 | 2,419 | 2,206 | 2,040 |
|            | <b>7</b>   | 2,924 | 2,431 | 2,111 | 1,887 | 2,859 | 2,400 | 2,096 | 1,881 | 2,340 | 2,067 | 1,869 | 2,285 | 2,039 | 1,857 | 2,232 | 2,013 | 1,845 |
|            | <b>8</b>   | 2,737 | 2,238 | 1,924 | 1,709 | 2,678 | 2,211 | 1,912 | 1,704 | 2,160 | 1,889 | 1,695 | 2,113 | 1,866 | 1,686 | 2,067 | 1,844 | 1,677 |
|            | <b>9</b>   | 2,568 | 2,069 | 1,763 | 1,557 | 2,514 | 2,046 | 1,753 | 1,553 | 2,002 | 1,734 | 1,546 | 1,960 | 1,715 | 1,539 | 1,921 | 1,697 | 1,533 |
|            | <b>10</b>  | 2,416 | 1,920 | 1,623 | 1,426 | 2,367 | 1,900 | 1,615 | 1,423 | 1,862 | 1,599 | 1,418 | 1,825 | 1,583 | 1,412 | 1,791 | 1,568 | 1,407 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 66.3 fc     | 10.2 ft       |
| 6.5 ft     | 47.5 fc     | 12.1 ft       |
| 7.5 ft     | 35.7 fc     | 13.9 ft       |
| 8.0 ft     | 31.3 fc     | 14.8 ft       |
| 10.0 ft    | 20.1 fc     | 18.5 ft       |
| 12.0 ft    | 13.9 fc     | 22.3 ft       |
| 14.0 ft    | 10.2 fc     | 26.0 ft       |
| 16.0 ft    | 7.8 fc      | 29.7 ft       |
| 20.0 ft    | 5.0 fc      | 37.1 ft       |
| 24.0 ft    | 3.5 fc      | 44.5 ft       |
| 28.0 ft    | 2.6 fc      | 51.9 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°  | 45.00° | 90.00° |
|---------------|--------|--------|--------|
| <b>0.00°</b>  | 12,218 | 12,218 | 12,218 |
| <b>45.00°</b> | 6,919  | 6,994  | 7,647  |
| <b>55.00°</b> | 4,174  | 4,243  | 4,385  |
| <b>65.00°</b> | 3,485  | 3,641  | 3,727  |
| <b>75.00°</b> | 2,357  | 2,596  | 2,739  |
| <b>85.00°</b> | 718    | 1,006  | 1,250  |

### UGR CIE 190:2010

|                            |            |                         |            |            |            |            |                       |            |            |            |            |
|----------------------------|------------|-------------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|
| <b>Ceiling reflectance</b> |            | <b>0.7</b>              | <b>0.7</b> | <b>0.5</b> | <b>0.5</b> | <b>0.3</b> | <b>0.7</b>            | <b>0.7</b> | <b>0.5</b> | <b>0.5</b> | <b>0.3</b> |
| <b>Wall reflectance</b>    |            | <b>0.5</b>              | <b>0.3</b> | <b>0.5</b> | <b>0.3</b> | <b>0.3</b> | <b>0.5</b>            | <b>0.3</b> | <b>0.5</b> | <b>0.3</b> | <b>0.3</b> |
| <b>Plane reflectance</b>   |            | <b>0.2</b>              | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b>            | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> |
| <b>Room dimensions</b>     |            | <b>Viewed crosswise</b> |            |            |            |            | <b>Viewed endwise</b> |            |            |            |            |
| <b>2H</b>                  | <b>2H</b>  | 14.3                    | 15.6       | 14.6       | 16.0       | 16.3       | 14.5                  | 15.9       | 14.9       | 16.2       | 16.5       |
|                            | <b>3H</b>  | 15.7                    | 16.9       | 16.0       | 17.2       | 17.6       | 16.0                  | 17.2       | 16.4       | 17.6       | 17.9       |
|                            | <b>4H</b>  | 16.1                    | 17.2       | 16.5       | 17.6       | 18.0       | 16.4                  | 17.6       | 16.8       | 18.0       | 18.3       |
|                            | <b>6H</b>  | 16.3                    | 17.3       | 16.7       | 17.7       | 18.1       | 16.7                  | 17.8       | 17.1       | 18.1       | 18.5       |
|                            | <b>8H</b>  | 16.3                    | 17.3       | 16.7       | 17.7       | 18.1       | 16.8                  | 17.8       | 17.2       | 18.2       | 18.6       |
|                            | <b>12H</b> | 16.3                    | 17.2       | 16.7       | 17.6       | 18.1       | 16.8                  | 17.7       | 17.2       | 18.1       | 18.5       |
| <b>4H</b>                  | <b>2H</b>  | 14.8                    | 15.9       | 15.2       | 16.3       | 16.7       | 15.1                  | 16.2       | 15.5       | 16.6       | 17.0       |
|                            | <b>3H</b>  | 16.4                    | 17.3       | 16.8       | 17.7       | 18.1       | 16.7                  | 17.7       | 17.2       | 18.1       | 18.5       |
|                            | <b>4H</b>  | 16.9                    | 17.7       | 17.3       | 18.1       | 18.6       | 17.3                  | 18.1       | 17.7       | 18.6       | 19.0       |
|                            | <b>6H</b>  | 17.1                    | 17.9       | 17.6       | 18.3       | 18.8       | 17.6                  | 18.4       | 18.1       | 18.8       | 19.3       |
|                            | <b>8H</b>  | 17.2                    | 17.9       | 17.7       | 18.3       | 18.8       | 17.7                  | 18.4       | 18.2       | 18.8       | 19.3       |
|                            | <b>12H</b> | 17.2                    | 17.8       | 17.7       | 18.3       | 18.7       | 17.7                  | 18.3       | 18.2       | 18.8       | 19.3       |
| <b>8H</b>                  | <b>4H</b>  | 17.0                    | 17.7       | 17.5       | 18.2       | 18.6       | 17.5                  | 18.2       | 18.0       | 18.6       | 19.1       |
|                            | <b>6H</b>  | 17.4                    | 17.9       | 17.9       | 18.4       | 18.9       | 17.9                  | 18.5       | 18.4       | 19.0       | 19.4       |
|                            | <b>8H</b>  | 17.4                    | 17.9       | 18.0       | 18.5       | 18.9       | 18.0                  | 18.5       | 18.5       | 19.0       | 19.5       |
|                            | <b>12H</b> | 17.5                    | 17.9       | 18.0       | 18.4       | 19.0       | 18.1                  | 18.5       | 18.6       | 19.0       | 19.6       |
| <b>12H</b>                 | <b>4H</b>  | 17.0                    | 17.6       | 17.5       | 18.1       | 18.6       | 17.5                  | 18.1       | 18.0       | 18.6       | 19.0       |
|                            | <b>6H</b>  | 17.4                    | 17.9       | 17.9       | 18.3       | 18.9       | 17.9                  | 18.4       | 18.5       | 18.9       | 19.4       |
|                            | <b>8H</b>  | 17.5                    | 17.9       | 18.0       | 18.4       | 19.0       | 18.1                  | 18.5       | 18.6       | 19.0       | 19.6       |

Corrected UGR values based on total output lumens

SHR = 1.0