

## Indoor Distribution Test Report

### Spectrum Lighting Inc.

994 Jefferson Street  
Fall River, MA 02721  
+1.508.678.2303

### Spectrum Lighting Photometric Lab

#### Luminaire

LT03IND48 20L 35K LW xx xx MW

Specline Linear, 1.8" aperture x 4' Long, Matte White Refl

#### Test Number

SP-01550\_2

#### Test Date

6/3/2022

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

### Summary of Results

#### Power

|             |      |
|-------------|------|
| Input Watts | 62 W |
|-------------|------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 5596       |
| Efficacy      | 90.26 lm/W |

#### Luminous Dimensions

|                 |      |
|-----------------|------|
| 0° - 180° Size  | 0.15 |
| 90° - 270° Size | 4    |
| Height          | 0    |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 1.88 |
| Two luminaires, plane 90° | 1.21 |
| Four luminaires           | 1.72 |

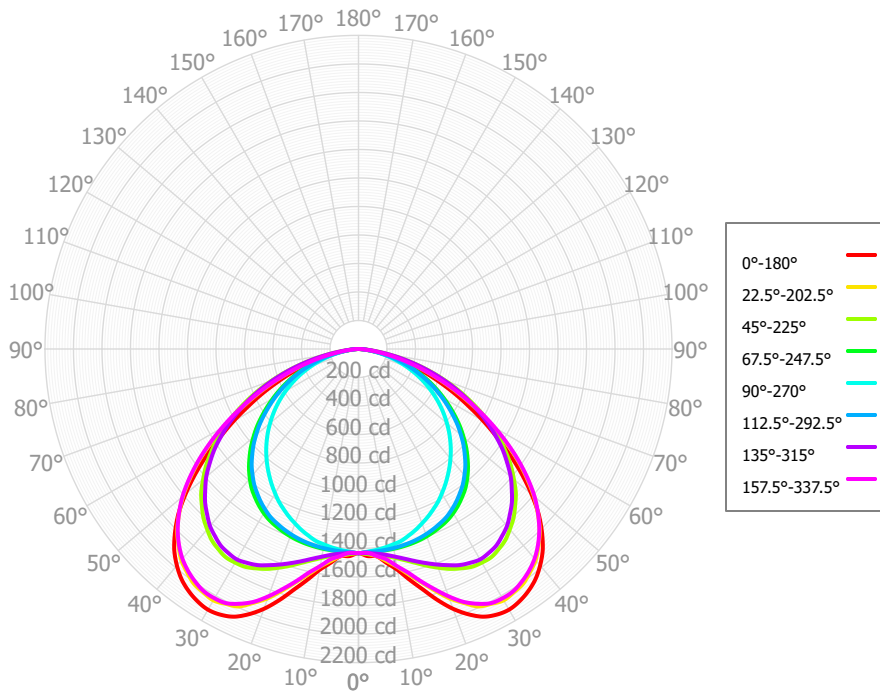
#### Full Beam Angle

|            |      |
|------------|------|
| 0° - 180°  | 118° |
| 90° - 270° | 74°  |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-01550_2   |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981                           |
| MANUFAC   | Spectrum Lighting  |
| TESTDATE  | 6/3/2022   |
| ISSUEDATE | 3/27/2023  |
| LUMCAT    | LT03IND48 20L 35K LW xx xx MW  |
| LUMINAIRE | Specline Linear, 1.8" aperture x 4' Long, Matte White Refl               |
| OTHER     | Wide Extruded Acrylic Lens, Batwing Distribution                         |
| OTHER     | Data for 4' IND fixture, Ceiling mount                                   |
| OTHER     | 118 deg x 73 deg Beam Angle  |
| LAMP      | N/A, Min. 80 CRI   |
| LAMPCAT   | N/A  |
| OTHER     | Reference project SL473  |
| OTHER     | 05L designation for Spectrum linear product indicates 1399 Source Lm/Ft. |
| OTHER     | CCT Output Multipliers: 40K x 1.02, 30K x 0.97                           |
| OTHER     | Total Luminaire Watts is approximate                                     |
| OTHER     | This report prepared by Spectrum Lighting                                |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens  | % Fixture | Zone              | Lumens  | % Fixture |
|-----------------|---------|-----------|-------------------|---------|-----------|
| 0.00° - 10.00°  | 141.30  | 2.53%     | 90.00° - 100.00°  | 0.00    | 0.00%     |
| 10.00° - 20.00° | 442.08  | 7.90%     | 100.00° - 110.00° | 0.00    | 0.00%     |
| 20.00° - 30.00° | 770.39  | 13.77%    | 100.00° - 120.00° | 0.00    | 0.00%     |
| 30.00° - 40.00° | 1020.80 | 18.24%    | 120.00° - 130.00° | 0.00    | 0.00%     |
| 40.00° - 50.00° | 1108.27 | 19.81%    | 130.00° - 140.00° | 0.00    | 0.00%     |
| 50.00° - 60.00° | 989.14  | 17.68%    | 140.00° - 150.00° | 0.00    | 0.00%     |
| 60.00° - 70.00° | 704.16  | 12.58%    | 150.00° - 160.00° | 0.00    | 0.00%     |
| 70.00° - 80.00° | 351.77  | 6.29%     | 160.00° - 170.00° | 0.00    | 0.00%     |
| 80.00° - 90.00° | 67.89   | 1.21%     | 170.00° - 180.00° | 0.00    | 0.00%     |
| 0.00° - 90.00°  | 5595.83 | 100.00%   | 0.00° - 180.00°   | 5595.83 | 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°  | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 | 1432.65 |
| 2.50°  | 1454.66 | 1440.78 | 1439.52 | 1427.01 | 1423.64 | 1426.13 | 1433.79 | 1430.93 | 1454.66 | 1440.78 | 1439.52 | 1427.01 | 1423.64 | 1426.13 | 1433.79 | 1430.93 | 1454.66 |
| 5.00°  | 1460.44 | 1460.07 | 1446.68 | 1426.69 | 1415.85 | 1425.09 | 1442.03 | 1458.46 | 1460.44 | 1460.07 | 1446.68 | 1426.69 | 1415.85 | 1425.09 | 1442.03 | 1458.46 | 1460.44 |
| 7.50°  | 1514.47 | 1500.57 | 1464.82 | 1425.43 | 1405.56 | 1422.27 | 1456.62 | 1488.12 | 1514.47 | 1500.57 | 1464.82 | 1425.43 | 1405.56 | 1422.27 | 1456.62 | 1488.12 | 1514.47 |
| 10.00° | 1573.70 | 1550.20 | 1488.50 | 1423.58 | 1392.88 | 1418.39 | 1479.87 | 1546.23 | 1573.70 | 1550.20 | 1488.50 | 1423.58 | 1392.88 | 1418.39 | 1479.87 | 1546.23 | 1573.70 |
| 12.50° | 1658.73 | 1618.66 | 1518.61 | 1420.49 | 1379.69 | 1413.14 | 1508.08 | 1607.07 | 1658.73 | 1618.66 | 1518.61 | 1420.49 | 1379.69 | 1413.14 | 1508.08 | 1607.07 | 1658.73 |
| 15.00° | 1747.39 | 1692.84 | 1554.17 | 1415.84 | 1356.20 | 1405.74 | 1541.42 | 1686.14 | 1747.39 | 1692.84 | 1554.17 | 1415.84 | 1356.20 | 1405.74 | 1541.42 | 1686.14 | 1747.39 |
| 17.50° | 1847.84 | 1776.30 | 1594.55 | 1408.75 | 1331.47 | 1396.19 | 1575.25 | 1765.63 | 1847.84 | 1776.30 | 1594.55 | 1408.75 | 1331.47 | 1396.19 | 1575.25 | 1765.63 | 1847.84 |
| 20.00° | 1940.46 | 1861.58 | 1632.95 | 1399.03 | 1302.66 | 1383.64 | 1609.49 | 1846.82 | 1940.46 | 1861.58 | 1632.95 | 1399.03 | 1302.66 | 1383.64 | 1609.49 | 1846.82 | 1940.46 |
| 22.50° | 2015.15 | 1928.49 | 1669.98 | 1386.18 | 1273.59 | 1368.81 | 1641.99 | 1920.30 | 2015.15 | 1928.49 | 1669.98 | 1386.18 | 1273.59 | 1368.81 | 1641.99 | 1920.30 | 2015.15 |
| 25.00° | 2072.71 | 1993.27 | 1698.59 | 1370.98 | 1241.37 | 1351.28 | 1673.42 | 1972.66 | 2072.71 | 1993.27 | 1698.59 | 1370.98 | 1241.37 | 1351.28 | 1673.42 | 1972.66 | 2072.71 |
| 27.50° | 2101.37 | 2016.36 | 1722.86 | 1353.64 | 1208.59 | 1332.20 | 1692.33 | 2010.79 | 2101.37 | 2016.36 | 1722.86 | 1353.64 | 1208.59 | 1332.20 | 1692.33 | 2010.79 | 2101.37 |
| 30.00° | 2112.40 | 2036.87 | 1730.89 | 1329.67 | 1170.06 | 1304.90 | 1705.55 | 2020.24 | 2112.40 | 2036.87 | 1730.89 | 1329.67 | 1170.06 | 1304.90 | 1705.55 | 2020.24 | 2112.40 |
| 32.50° | 2100.38 | 2026.01 | 1732.84 | 1301.01 | 1131.11 | 1273.99 | 1698.48 | 2017.27 | 2100.38 | 2026.01 | 1732.84 | 1301.01 | 1131.11 | 1273.99 | 1698.48 | 2017.27 | 2100.38 |
| 35.00° | 2075.72 | 2012.54 | 1714.76 | 1267.60 | 1089.79 | 1238.47 | 1684.59 | 1995.38 | 2075.72 | 2012.54 | 1714.76 | 1267.60 | 1089.79 | 1238.47 | 1684.59 | 1995.38 | 2075.72 |
| 37.50° | 2038.49 | 1975.69 | 1691.31 | 1231.68 | 1047.87 | 1201.51 | 1654.78 | 1964.05 | 2038.49 | 1975.69 | 1691.31 | 1231.68 | 1047.87 | 1201.51 | 1654.78 | 1964.05 | 2038.49 |
| 40.00° | 1982.99 | 1934.35 | 1651.94 | 1186.27 | 1003.81 | 1156.45 | 1621.40 | 1921.83 | 1982.99 | 1934.35 | 1651.94 | 1186.27 | 1003.81 | 1156.45 | 1621.40 | 1921.83 | 1982.99 |
| 42.50° | 1913.70 | 1869.68 | 1609.92 | 1137.17 | 958.63  | 1109.76 | 1572.81 | 1864.64 | 1913.70 | 1869.68 | 1609.92 | 1137.17 | 958.63  | 1109.76 | 1572.81 | 1864.64 | 1913.70 |
| 45.00° | 1820.94 | 1798.71 | 1554.21 | 1081.85 | 910.69  | 1055.31 | 1522.23 | 1794.29 | 1820.94 | 1798.71 | 1554.21 | 1081.85 | 910.69  | 1055.31 | 1522.23 | 1794.29 | 1820.94 |
| 47.50° | 1714.44 | 1706.63 | 1497.39 | 1024.87 | 861.48  | 999.92  | 1458.86 | 1708.78 | 1714.44 | 1706.63 | 1497.39 | 1024.87 | 861.48  | 999.92  | 1458.86 | 1708.78 | 1714.44 |
| 50.00° | 1585.09 | 1607.15 | 1423.56 | 962.50  | 809.95  | 938.49  | 1394.66 | 1612.88 | 1585.09 | 1607.15 | 1423.56 | 962.50  | 809.95  | 938.49  | 1394.66 | 1612.88 | 1585.09 |
| 52.50° | 1445.88 | 1490.23 | 1348.83 | 899.19  | 757.45  | 876.63  | 1316.09 | 1498.53 | 1445.88 | 1490.23 | 1348.83 | 899.19  | 757.45  | 876.63  | 1316.09 | 1498.53 | 1445.88 |
| 55.00° | 1299.65 | 1366.62 | 1262.73 | 830.76  | 703.61  | 808.92  | 1236.46 | 1374.75 | 1299.65 | 1366.62 | 1262.73 | 830.76  | 703.61  | 808.92  | 1236.46 | 1374.75 | 1299.65 |
| 57.50° | 1151.28 | 1231.02 | 1174.98 | 761.87  | 648.05  | 741.23  | 1144.99 | 1242.58 | 1151.28 | 1231.02 | 1174.98 | 761.87  | 648.05  | 741.23  | 1144.99 | 1242.58 | 1151.28 |
| 60.00° | 1011.88 | 1094.86 | 1075.41 | 692.62  | 590.66  | 673.79  | 1052.22 | 1107.30 | 1011.88 | 1094.86 | 1075.41 | 692.62  | 590.66  | 673.79  | 1052.22 | 1107.30 | 1011.88 |
| 62.50° | 874.34  | 957.95  | 974.60  | 623.35  | 532.67  | 606.12  | 952.13  | 971.37  | 874.34  | 957.95  | 974.60  | 623.35  | 532.67  | 606.12  | 952.13  | 971.37  | 874.34  |
| 65.00° | 750.28  | 825.11  | 868.23  | 553.81  | 474.21  | 537.22  | 850.85  | 835.26  | 750.28  | 825.11  | 868.23  | 553.81  | 474.21  | 537.22  | 850.85  | 835.26  | 750.28  |
| 67.50° | 627.79  | 696.41  | 760.36  | 484.08  | 414.41  | 468.65  | 745.09  | 706.41  | 627.79  | 696.41  | 760.36  | 484.08  | 414.41  | 468.65  | 745.09  | 706.41  | 627.79  |
| 70.00° | 518.00  | 575.44  | 648.04  | 412.88  | 353.77  | 401.20  | 638.08  | 578.74  | 518.00  | 575.44  | 648.04  | 412.88  | 353.77  | 401.20  | 638.08  | 578.74  | 518.00  |
| 72.50° | 409.09  | 460.65  | 535.78  | 342.42  | 294.19  | 333.76  | 527.82  | 466.34  | 409.09  | 460.65  | 535.78  | 342.42  | 294.19  | 333.76  | 527.82  | 466.34  | 409.09  |
| 75.00° | 316.02  | 353.86  | 423.61  | 275.23  | 235.11  | 266.35  | 418.98  | 355.13  | 316.02  | 353.86  | 423.61  | 275.23  | 235.11  | 266.35  | 418.98  | 355.13  | 316.02  |
| 77.50° | 224.62  | 251.88  | 315.63  | 208.60  | 179.57  | 201.14  | 312.79  | 259.77  | 224.62  | 251.88  | 315.63  | 208.60  | 179.57  | 201.14  | 312.79  | 259.77  | 224.62  |
| 80.00° | 149.55  | 169.18  | 214.45  | 143.68  | 125.22  | 139.91  | 214.21  | 166.15  | 149.55  | 169.18  | 214.45  | 143.68  | 125.22  | 139.91  | 214.21  | 166.15  | 149.55  |
| 82.50° | 80.26   | 95.04   | 128.85  | 86.10   | 80.32   | 86.38   | 126.64  | 98.67   | 80.26   | 95.04   | 128.85  | 86.10   | 80.32   | 86.38   | 126.64  | 98.67   | 80.26   |
| 85.00° | 41.05   | 49.78   | 62.43   | 44.64   | 37.63   | 43.34   | 63.92   | 37.33   | 41.05   | 49.78   | 62.43   | 44.64   | 37.63   | 43.34   | 63.92   | 37.33   | 41.05   |
| 87.50° | 9.84    | 13.97   | 23.26   | 16.01   | 19.50   | 17.00   | 28.51   | 19.29   | 9.84    | 13.97   | 23.26   | 16.01   | 19.50   | 17.00   | 28.51   | 19.29   | 9.84    |
| 90.00° | 6.61    | 5.75    | 9.59    | 8.22    | 4.76    | 7.96    | 9.92    | 4.46    | 6.61    | 5.75    | 9.59    | 8.22    | 4.76    | 7.96    | 9.92    | 4.46    | 6.61    |

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

|            |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>RCR</b> | <b>ptc</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>0</b>   | 6662 | 6662 | 6662 | 6662 | 6507 | 6507 | 6507 | 6507 | 6218 | 6218 | 6218 | 5953 | 5953 | 5953 | 5710 | 5710 | 5596 |
|            | <b>1</b>   | 6093 | 5828 | 5591 | 5377 | 5940 | 5701 | 5485 | 5289 | 5463 | 5285 | 5122 | 5244 | 5099 | 4965 | 5043 | 4926 | 4822 |
|            | <b>2</b>   | 5529 | 5065 | 4682 | 4360 | 5381 | 4959 | 4606 | 4307 | 4759 | 4462 | 4206 | 4576 | 4327 | 4109 | 4405 | 4200 | 4107 |
|            | <b>3</b>   | 5026 | 4428 | 3966 | 3598 | 4886 | 4339 | 3910 | 3565 | 4171 | 3803 | 3501 | 4016 | 3702 | 3439 | 3872 | 3606 | 3379 |
|            | <b>4</b>   | 4586 | 3903 | 3403 | 3022 | 4456 | 3828 | 3361 | 3000 | 3686 | 3280 | 2958 | 3555 | 3202 | 2916 | 3432 | 3128 | 2876 |
|            | <b>5</b>   | 4203 | 3469 | 2956 | 2577 | 4083 | 3405 | 2923 | 2563 | 3285 | 2860 | 2534 | 3173 | 2799 | 2505 | 3069 | 2741 | 2477 |
|            | <b>6</b>   | 3868 | 3106 | 2595 | 2228 | 3759 | 3052 | 2569 | 2218 | 2950 | 2519 | 2197 | 2855 | 2470 | 2177 | 2765 | 2424 | 2157 |
|            | <b>7</b>   | 3575 | 2802 | 2300 | 1949 | 3476 | 2756 | 2279 | 1941 | 2668 | 2239 | 1926 | 2586 | 2200 | 1911 | 2509 | 2162 | 1897 |
|            | <b>8</b>   | 3318 | 2544 | 2057 | 1722 | 3228 | 2504 | 2040 | 1716 | 2429 | 2007 | 1705 | 2358 | 1975 | 1694 | 2292 | 1944 | 1683 |
|            | <b>9</b>   | 3091 | 2323 | 1853 | 1535 | 3010 | 2289 | 1839 | 1531 | 2224 | 1812 | 1522 | 2163 | 1785 | 1514 | 2106 | 1759 | 1505 |
|            | <b>10</b>  | 2889 | 2134 | 1681 | 1380 | 2816 | 2104 | 1669 | 1377 | 2048 | 1647 | 1370 | 1995 | 1624 | 1363 | 1944 | 1603 | 1356 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 47.4 fc     | 18.5 ft       |
| 6.5 ft     | 33.9 fc     | 21.8 ft       |
| 7.5 ft     | 25.5 fc     | 25.2 ft       |
| 8.0 ft     | 22.4 fc     | 26.8 ft       |
| 10.0 ft    | 14.3 fc     | 33.6 ft       |
| 12.0 ft    | 9.9 fc      | 40.3 ft       |
| 14.0 ft    | 7.3 fc      | 47.0 ft       |
| 16.0 ft    | 5.6 fc      | 53.7 ft       |
| 20.0 ft    | 3.6 fc      | 67.1 ft       |
| 24.0 ft    | 2.5 fc      | 80.5 ft       |
| 28.0 ft    | 1.8 fc      | 94.0 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00° | 45.00° | 90.00° |
|---------------|-------|--------|--------|
| <b>0.00°</b>  | 25701 | 25701  | 25701  |
| <b>45.00°</b> | 46199 | 39431  | 23105  |
| <b>55.00°</b> | 40649 | 39495  | 22007  |
| <b>65.00°</b> | 31849 | 36856  | 20130  |
| <b>75.00°</b> | 21905 | 29362  | 16296  |
| <b>85.00°</b> | 8450  | 12850  | 7746   |

### 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>  | 26.0                    | 27.6       | 26.3       | 28.0       | 28.3       | 22.4                  | 24.1       | 22.8       | 24.4       | 24.7       |
|                            | <b>3H</b>  | 27.3                    | 28.8       | 27.6       | 29.1       | 29.4       | 24.0                  | 25.5       | 24.4       | 25.8       | 26.2       |
|                            | <b>4H</b>  | 27.6                    | 29.0       | 28.0       | 29.4       | 29.8       | 24.6                  | 26.0       | 25.0       | 26.3       | 26.7       |
|                            | <b>6H</b>  | 27.8                    | 29.1       | 28.2       | 29.5       | 29.9       | 24.9                  | 26.2       | 25.3       | 26.6       | 26.9       |
|                            | <b>8H</b>  | 27.8                    | 29.1       | 28.3       | 29.5       | 29.9       | 25.0                  | 26.2       | 25.4       | 26.6       | 27.0       |
|                            | <b>12H</b> | 27.8                    | 29.0       | 28.3       | 29.4       | 29.8       | 25.0                  | 26.2       | 25.4       | 26.6       | 27.0       |
| <b>4H</b>                  | <b>2H</b>  | 26.6                    | 28.0       | 26.9       | 28.3       | 28.7       | 24.0                  | 25.5       | 24.4       | 25.8       | 26.2       |
|                            | <b>3H</b>  | 28.1                    | 29.2       | 28.5       | 29.6       | 30.0       | 25.7                  | 26.9       | 26.1       | 27.3       | 27.7       |
|                            | <b>4H</b>  | 28.5                    | 29.6       | 29.0       | 30.0       | 30.5       | 26.2                  | 27.3       | 26.7       | 27.7       | 28.2       |
|                            | <b>6H</b>  | 28.8                    | 29.7       | 29.3       | 30.2       | 30.6       | 26.6                  | 27.5       | 27.1       | 28.0       | 28.4       |
|                            | <b>8H</b>  | 28.9                    | 29.7       | 29.3       | 30.2       | 30.6       | 26.7                  | 27.5       | 27.1       | 28.0       | 28.5       |
|                            | <b>12H</b> | 28.9                    | 29.7       | 29.4       | 30.1       | 30.6       | 26.7                  | 27.5       | 27.2       | 28.0       | 28.4       |
| <b>8H</b>                  | <b>4H</b>  | 28.8                    | 29.7       | 29.2       | 30.1       | 30.6       | 26.8                  | 27.6       | 27.2       | 28.1       | 28.6       |
|                            | <b>6H</b>  | 29.1                    | 29.9       | 29.6       | 30.3       | 30.8       | 27.2                  | 28.0       | 27.7       | 28.4       | 28.9       |
|                            | <b>8H</b>  | 29.2                    | 29.8       | 29.7       | 30.4       | 30.8       | 27.3                  | 28.0       | 27.9       | 28.5       | 29.0       |
|                            | <b>12H</b> | 29.2                    | 29.8       | 29.7       | 30.3       | 30.9       | 27.4                  | 28.0       | 27.9       | 28.5       | 29.0       |
| <b>12H</b>                 | <b>4H</b>  | 28.8                    | 29.6       | 29.3       | 30.0       | 30.5       | 26.8                  | 27.6       | 27.3       | 28.1       | 28.5       |
|                            | <b>6H</b>  | 29.2                    | 29.8       | 29.7       | 30.3       | 30.8       | 27.3                  | 28.0       | 27.8       | 28.4       | 29.0       |
|                            | <b>8H</b>  | 29.3                    | 29.8       | 29.8       | 30.3       | 30.9       | 27.5                  | 28.0       | 28.0       | 28.5       | 29.1       |

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0