

## Indoor Distribution Test Report

### Spectrum Lighting Inc.

994 Jefferson Street  
Fall River, MA 02721  
+1.508.678.2303

### Spectrum Lighting Photometric Lab

Luminaire

C1320PC80L35KMDDO10XTSGHMMW

13" round x 20" high PC series Stage Pro luminaire for auditorium and area lighting.

Test Number

SP-R989

Test Date

7/9/2025

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

## Summary of Results

### Power

|             |         |
|-------------|---------|
| Input Watts | 56.42 W |
|-------------|---------|

### Lumen Output

|               |             |
|---------------|-------------|
| Output Lumens | 6489        |
| Efficacy      | 115.01 lm/W |

### Luminous Dimensions

|                 |    |
|-----------------|----|
| 0° - 180° Size  | -1 |
| 90° - 270° Size | -1 |
| Height          | 0  |

### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 0.34 |
| Two luminaires, plane 90° | 0.46 |
| Four luminaires           | 0.44 |

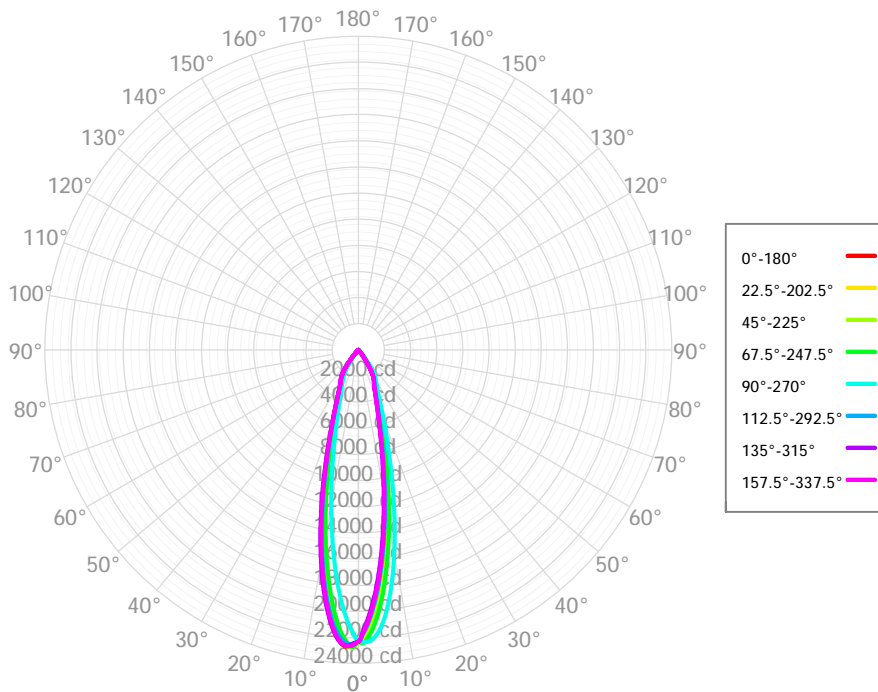
### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 24° |
| 90° - 270° | 24° |

## IES File Header Contents

| Keyword      | Value  |
|--------------|--|
| TEST         | SP-R989  |
| TESTLAB      | Spectrum Lighting Photometric Lab. VLS-245-981                                       |
| MANUFAC      | Spectrum Lighting  |
| TESTDATE     | 7/9/2025   |
| ISSUEDATE    | 7/9/2025   |
| LUMCAT       | C1320PC80L35KMDDO10XTSGHMMW  |
| LUMINAIRE    | 13" round x 20" high PC series Stage Pro luminaire for auditorium and area lighting. |
| DISTRIBUTION | Beam Angle 24.1  |
| OTHER        | CCT 3327 CRI 83.9 R9 9.8   |
| OTHER        | Total Luminaire wattage is approximate   |
| OTHER        | This report is prepared by Spectrum Lighting   |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens  | % Fixture | Zone              | Lumens  | % Fixture |
|-----------------|---------|-----------|-------------------|---------|-----------|
| 0.00° - 10.00°  | 1690.28 | 26.05%    | 90.00° - 100.00°  | 0.00    | 0.00%     |
| 10.00° - 20.00° | 2314.97 | 35.68%    | 100.00° - 110.00° | 0.00    | 0.00%     |
| 20.00° - 30.00° | 1519.05 | 23.41%    | 100.00° - 120.00° | 0.00    | 0.00%     |
| 30.00° - 40.00° | 867.93  | 13.38%    | 120.00° - 130.00° | 0.00    | 0.00%     |
| 40.00° - 50.00° | 69.93   | 1.08%     | 130.00° - 140.00° | 0.00    | 0.00%     |
| 50.00° - 60.00° | 7.67    | 0.12%     | 140.00° - 150.00° | 0.00    | 0.00%     |
| 60.00° - 70.00° | 6.35    | 0.10%     | 150.00° - 160.00° | 0.00    | 0.00%     |
| 70.00° - 80.00° | 6.19    | 0.10%     | 160.00° - 170.00° | 0.00    | 0.00%     |
| 80.00° - 90.00° | 6.63    | 0.10%     | 170.00° - 180.00° | 0.00    | 0.00%     |
| 0.00° - 90.00°  | 6489.00 | 100.00%   | 0.00° - 180.00°   | 6489.00 | 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°  | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 | 22350.45 |
| 1.00°  | 21650.04 | 22086.76 | 22177.97 | 22459.80 | 22374.63 | 22494.69 | 22493.88 | 22598.04 | 22640.86 | 22778.28 | 22762.00 | 22739.36 | 21698.97 | 21720.93 | 21465.43 | 21643.69 | 21650.04 |
| 2.00°  | 20851.46 | 21418.07 | 21584.58 | 22001.54 | 22356.33 | 22522.40 | 22647.40 | 22705.16 | 22764.03 | 22749.25 | 22707.54 | 22502.42 | 21007.52 | 20999.49 | 20624.79 | 20854.15 | 20851.46 |
| 3.00°  | 19914.10 | 20584.31 | 20824.43 | 21354.72 | 22124.76 | 22305.66 | 22547.96 | 22553.22 | 22626.79 | 22454.94 | 22380.02 | 22003.38 | 20145.25 | 20090.00 | 19645.41 | 19907.63 | 19914.10 |
| 4.00°  | 18868.19 | 19629.44 | 19903.95 | 20533.78 | 21691.01 | 21866.89 | 22197.87 | 22148.35 | 22231.99 | 21898.42 | 21796.62 | 21262.27 | 19136.12 | 19066.03 | 18572.53 | 18857.53 | 18868.19 |
| 5.00°  | 17749.75 | 18566.87 | 18849.20 | 19566.80 | 21063.92 | 21203.46 | 21609.60 | 21510.10 | 21588.97 | 21120.25 | 20995.00 | 20348.06 | 18023.30 | 17948.33 | 17417.02 | 17725.30 | 17749.75 |
| 6.00°  | 16566.60 | 17428.67 | 17708.01 | 18473.76 | 20250.53 | 20359.53 | 20830.87 | 20660.05 | 20743.17 | 20157.12 | 20026.90 | 19287.91 | 16860.35 | 16754.54 | 16196.88 | 16530.07 | 16566.60 |
| 7.00°  | 15334.46 | 16218.47 | 16490.17 | 17286.13 | 19287.54 | 19372.42 | 19882.76 | 19661.83 | 19744.60 | 19075.10 | 18930.47 | 18149.95 | 15621.37 | 15507.35 | 14927.17 | 15279.21 | 15334.46 |
| 8.00°  | 14082.04 | 14971.51 | 15242.52 | 16052.17 | 18208.92 | 18281.17 | 18814.65 | 18553.57 | 18629.78 | 17914.41 | 17761.92 | 16939.81 | 14364.93 | 14243.25 | 13659.03 | 14009.52 | 14082.04 |
| 9.00°  | 12824.86 | 13721.19 | 13973.77 | 14788.43 | 17049.28 | 17108.35 | 17668.93 | 17358.79 | 17444.01 | 16691.83 | 16543.77 | 15692.54 | 13127.86 | 12998.20 | 12400.25 | 12749.53 | 12824.86 |
| 10.00° | 11584.71 | 12456.08 | 12707.43 | 13508.48 | 15829.92 | 15892.88 | 16456.50 | 16116.72 | 16203.36 | 15442.73 | 15290.86 | 14432.22 | 11917.62 | 11769.81 | 11176.31 | 11503.52 | 11584.71 |
| 11.00° | 10392.53 | 11224.05 | 11481.10 | 12258.71 | 14575.58 | 14636.86 | 15196.24 | 14846.27 | 14941.91 | 14181.52 | 14033.15 | 13171.05 | 10752.98 | 10584.46 | 10006.76 | 10311.28 | 10392.53 |
| 12.00° | 9286.80  | 10071.11 | 10326.15 | 11055.59 | 13332.95 | 13382.86 | 13933.03 | 13585.31 | 13689.72 | 12935.51 | 12781.29 | 11939.66 | 9669.52  | 9490.44  | 8932.18  | 9201.72  | 9286.80  |
| 13.00° | 8274.27  | 9001.93  | 9257.50  | 9926.05  | 12106.80 | 12146.27 | 12674.32 | 12327.22 | 12449.31 | 11708.17 | 11560.21 | 10753.05 | 8671.91  | 8493.04  | 7966.78  | 8192.70  | 8274.27  |
| 14.00° | 7370.45  | 8027.25  | 8290.13  | 8886.63  | 10911.64 | 10935.34 | 11433.82 | 11104.55 | 11234.67 | 10522.98 | 10389.92 | 9644.93  | 7750.22  | 7588.15  | 7109.73  | 7297.04  | 7370.45  |
| 15.00° | 6575.90  | 7156.23  | 7413.59  | 7949.64  | 9798.07  | 9795.55  | 10243.50 | 9938.88  | 10065.99 | 9405.47  | 9282.32  | 8619.20  | 6918.90  | 6780.15  | 6362.64  | 6510.87  | 6575.90  |
| 16.00° | 5887.73  | 6396.20  | 6633.41  | 7109.77  | 8774.09  | 8748.19  | 9136.29  | 8846.72  | 8969.81  | 8369.81  | 8255.68  | 7680.46  | 6202.64  | 6077.55  | 5719.48  | 5837.90  | 5887.73  |
| 17.00° | 5300.84  | 5738.47  | 5948.08  | 6357.60  | 7849.85  | 7795.69  | 8127.21  | 7876.53  | 7973.59  | 7436.79  | 7342.26  | 6848.84  | 5579.91  | 5477.23  | 5163.34  | 5258.98  | 5300.84  |
| 18.00° | 4795.46  | 5175.04  | 5354.86  | 5696.68  | 7011.57  | 6943.26  | 7224.36  | 7013.02  | 7085.90  | 6614.07  | 6540.64  | 6121.38  | 5041.56  | 4956.22  | 4683.34  | 4761.25  | 4795.46  |
| 19.00° | 4364.99  | 4684.37  | 4837.75  | 5134.59  | 6273.42  | 6203.70  | 6437.85  | 6253.58  | 6317.48  | 5908.84  | 5841.46  | 5489.22  | 4575.47  | 4504.56  | 4271.19  | 4335.15  | 4364.99  |
| 20.00° | 3994.14  | 4259.46  | 4393.15  | 4643.24  | 5627.42  | 5569.60  | 5766.72  | 5608.91  | 5662.75  | 5302.90  | 5250.10  | 4957.74  | 4188.95  | 4116.88  | 3918.22  | 3962.68  | 3994.14  |
| 21.00° | 3675.06  | 3900.93  | 4011.07  | 4209.45  | 5070.52  | 5017.31  | 5195.03  | 5061.59  | 5098.13  | 4784.85  | 4741.56  | 4506.47  | 3866.18  | 3791.49  | 3616.74  | 3647.23  | 3675.06  |
| 22.00° | 3408.89  | 3599.92  | 3686.45  | 3848.80  | 4583.28  | 4541.60  | 4703.78  | 4590.69  | 4614.54  | 4348.29  | 4321.78  | 4129.32  | 3586.59  | 3517.36  | 3355.65  | 3375.15  | 3408.89  |
| 23.00° | 3189.51  | 3356.32  | 3427.76  | 3549.02  | 4166.87  | 4135.78  | 4282.62  | 4190.65  | 4201.00  | 3979.27  | 3960.29  | 3809.21  | 3346.05  | 3278.95  | 3141.15  | 3151.52  | 3189.51  |
| 24.00° | 3009.33  | 3145.92  | 3221.94  | 3313.76  | 3805.77  | 3791.87  | 3919.84  | 3847.03  | 3853.23  | 3664.85  | 3653.84  | 3531.47  | 3135.75  | 3089.16  | 2966.20  | 2973.68  | 3009.33  |
| 25.00° | 2871.37  | 2983.58  | 3045.92  | 3121.49  | 3510.39  | 3499.27  | 3612.73  | 3549.87  | 3553.21  | 3389.73  | 3382.15  | 3281.32  | 2955.68  | 2927.26  | 2826.16  | 2841.54  | 2871.37  |
| 26.00° | 2755.86  | 2840.55  | 2894.73  | 2967.10  | 3279.38  | 3254.87  | 3344.40  | 3302.23  | 3303.66  | 3153.95  | 3141.65  | 3067.39  | 2797.48  | 2790.68  | 2726.49  | 2732.47  | 2755.86  |
| 27.00° | 2648.28  | 2718.93  | 2770.15  | 2830.97  | 3092.94  | 3053.91  | 3119.58  | 3098.83  | 3099.41  | 2966.56  | 2944.48  | 2894.09  | 2652.39  | 2658.79  | 2607.62  | 2623.67  | 2648.28  |
| 28.00° | 2521.73  | 2600.02  | 2645.63  | 2704.02  | 2933.37  | 2893.97  | 2940.40  | 2937.49  | 2927.37  | 2812.76  | 2784.92  | 2741.82  | 2513.57  | 2510.03  | 2476.39  | 2510.56  | 2521.73  |
| 29.00° | 2376.27  | 2448.80  | 2483.50  | 2566.57  | 2799.10  | 2770.13  | 2802.27  | 2803.84  | 2796.34  | 2687.23  | 2646.30  | 2605.51  | 2366.31  | 2354.09  | 2312.10  | 2370.51  | 2376.27  |
| 30.00° | 2205.39  | 2268.79  | 2305.13  | 2405.02  | 2665.87  | 2655.95  | 2698.09  | 2701.01  | 2679.37  | 2563.18  | 2518.83  | 2474.10  | 2204.31  | 2185.93  | 2128.23  | 2189.28  | 2205.39  |
| 31.00° | 1987.02  | 2067.31  | 2105.63  | 2222.05  | 2524.43  | 2523.92  | 2595.19  | 2596.16  | 2560.29  | 2438.04  | 2400.44  | 2351.68  | 2020.14  | 1987.61  | 1910.96  | 1966.64  | 1987.02  |
| 32.00° | 1750.55  | 1860.11  | 1901.27  | 2029.94  | 2374.90  | 2391.32  | 2471.96  | 2465.48  | 2426.62  | 2306.25  | 2277.85  | 2206.54  | 1798.66  | 1762.13  | 1674.83  | 1728.08  | 1750.55  |
| 33.00° | 1508.44  | 1632.50  | 1688.52  | 1827.01  | 2208.55  | 2245.60  | 2327.86  | 2300.64  | 2266.43  | 2143.00  | 2117.47  | 2020.26  | 1561.51  | 1520.23  | 1425.78  | 1482.47  | 1508.44  |
| 34.00° | 1257.17  | 1395.13  | 1459.74  | 1601.90  | 2015.59  | 2066.80  | 2157.73  | 2117.94  | 2077.68  | 1946.61  | 1914.29  | 1797.26  | 1315.80  | 1273.74  | 1180.64  | 1233.07  | 1257.17  |
| 35.00° | 1011.63  | 1152.44  | 1219.27  | 1356.07  | 1805.88  | 1851.72  | 1950.84  | 1887.71  | 1861.43  | 1719.74  | 1684.89  | 1550.65  | 1071.52  | 1022.60  | 935.97   | 990.87   | 1011.63  |
| 36.00° | 781.26   | 910.49   | 955.52   | 1105.42  | 1578.46  | 1616.40  | 1718.75  | 1649.04  | 1625.10  | 1480.00  | 1445.11  | 1304.68  | 839.79   | 789.64   | 714.45   | 759.05   | 781.26   |
| 37.00° | 567.58   | 686.39   | 699.77   | 864.02   | 1332.58  | 1368.41  | 1469.52  | 1394.82  | 1379.62  | 1235.56  | 1204.19  | 1058.85  | 636.66   | 583.48   | 511.69   | 542.21   | 567.58   |
| 38.00° | 379.38   | 484.07   | 472.09   | 637.88   | 1087.63  | 1118.54  | 1205.13  | 1145.60  | 1131.70  | 998.19   | 969.53   | 830.92   | 458.77   | 413.84   | 342.26   | 362.07   | 379.38   |
| 39.00° | 240.28   | 325.68   | 281.17   | 442.55   | 857.79   | 885.77   | 932.71   | 904.23   | 893.30   | 780.54   | 757.80   | 636.65   | 323.47   | 284.12   | 221.66   | 225.21   | 240.28   |
| 40.00° | 143.43   | 213.20   | 160.75   | 290.38   | 645.68   | 673.13   | 678.30   | 681.88   | 675.14   | 586.38   | 569.39   | 461.81   | 209.33   | 187.10   | 137.69   | 128.99   | 143.43   |
| 41.00° | 83.67    | 131.65   | 93.48    | 185.97   | 473.88   | 485.49   | 452.64   | 477.09   | 484.33   | 417.47   | 398.87   | 307.23   | 123.70   | 112.37   | 80.61    | 79.55    | 83.67    |
| 42.00° | 53.23    | 72.33    | 54.90    | 105.18   | 344.35   | 337.04   | 275.54   | 308.18   | 328.55   | 276.06   | 252.04   | 186.19   | 69.99    | 63.93    | 51.08    | 54.28    | 53.23    |
| 43.00° | 35.76    | 37.13    | 29.80    | 56.89    | 242.84   | 220.80   | 157.73   | 182.51   | 212.93   | 167.23   | 140.89   | 95.72    | 47.60    | 43.78    | 35.64    | 35.85    | 35.76    |

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

|     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RCR | pfc | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 0%   |
|     | pcc | 80%  | 80%  | 80%  | 80%  | 70%  | 70%  | 70%  | 70%  | 50%  | 50%  | 50%  | 30%  | 30%  | 30%  | 10%  | 10%  | 10%  | 0%   |
|     | pw  | 70%  | 50%  | 30%  | 10%  | 70%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  |
|     | 0   | 7725 | 7725 | 7725 | 7725 | 7545 | 7545 | 7545 | 7545 | 7210 | 7210 | 7210 | 6903 | 6903 | 6903 | 6621 | 6621 | 6621 | 6489 |
|     | 1   | 7425 | 7271 | 7133 | 7008 | 7269 | 7132 | 7009 | 6897 | 6873 | 6775 | 6686 | 6634 | 6558 | 6488 | 6414 | 6356 | 6302 | 6230 |
|     | 2   | 7136 | 6870 | 6651 | 6467 | 6999 | 6761 | 6563 | 6395 | 6557 | 6396 | 6257 | 6368 | 6238 | 6124 | 6193 | 6090 | 5998 | 5972 |
|     | 3   | 6860 | 6515 | 6248 | 6035 | 6739 | 6428 | 6184 | 5987 | 6264 | 6061 | 5893 | 6112 | 5944 | 5803 | 5972 | 5834 | 5716 | 5725 |
|     | 4   | 6598 | 6196 | 5902 | 5677 | 6491 | 6126 | 5854 | 5644 | 5993 | 5762 | 5579 | 5870 | 5675 | 5516 | 5756 | 5591 | 5455 | 5490 |
|     | 5   | 6350 | 5908 | 5599 | 5371 | 6255 | 5851 | 5563 | 5348 | 5742 | 5493 | 5302 | 5641 | 5426 | 5258 | 5547 | 5362 | 5214 | 5269 |
|     | 6   | 6116 | 5647 | 5331 | 5105 | 6032 | 5599 | 5303 | 5088 | 5509 | 5249 | 5055 | 5425 | 5197 | 5023 | 5346 | 5147 | 4992 | 5061 |
|     | 7   | 5896 | 5408 | 5091 | 4869 | 5820 | 5368 | 5069 | 4857 | 5293 | 5027 | 4833 | 5222 | 4986 | 4809 | 5156 | 4946 | 4786 | 4867 |
|     | 8   | 5689 | 5189 | 4875 | 4658 | 5621 | 5156 | 4857 | 4649 | 5092 | 4823 | 4631 | 5032 | 4790 | 4614 | 4975 | 4758 | 4596 | 4685 |
|     | 9   | 5495 | 4988 | 4678 | 4468 | 5433 | 4959 | 4664 | 4461 | 4905 | 4636 | 4448 | 4853 | 4609 | 4434 | 4805 | 4583 | 4421 | 4516 |
|     | 10  | 5312 | 4803 | 4498 | 4295 | 5256 | 4778 | 4486 | 4290 | 4731 | 4464 | 4279 | 4687 | 4442 | 4269 | 4645 | 4420 | 4259 | 4358 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 738.9 fc    | 2.3 ft        |
| 6.5 ft     | 529.0 fc    | 2.8 ft        |
| 7.5 ft     | 397.3 fc    | 3.2 ft        |
| 8.0 ft     | 349.2 fc    | 3.4 ft        |
| 10.0 ft    | 223.5 fc    | 4.3 ft        |
| 12.0 ft    | 155.2 fc    | 5.1 ft        |
| 14.0 ft    | 114.0 fc    | 6.0 ft        |
| 16.0 ft    | 87.3 fc     | 6.8 ft        |
| 20.0 ft    | 55.9 fc     | 8.5 ft        |
| 24.0 ft    | 38.8 fc     | 10.2 ft       |
| 28.0 ft    | 28.5 fc     | 11.9 ft       |

### Average Luminaire Luminance [cd/m<sup>2</sup>]

|        | 0.00°  | 45.00° | 90.00° |
|--------|--------|--------|--------|
| 0.00°  | 306314 | 306314 | 306314 |
| 45.00° | 322    | 260    | 1984   |
| 55.00° | 140    | 155    | 129    |
| 65.00° | 177    | 265    | 134    |
| 75.00° | 291    | 354    | 302    |
| 85.00° | 1005   | 1027   | 884    |

### UGR CIE 190:2010

|                     |     |                |      |      |      |      |                 |      |      |      |      |
|---------------------|-----|----------------|------|------|------|------|-----------------|------|------|------|------|
| Ceiling reflectance |     | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  | 0.7             | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall reflectance    |     | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  | 0.5             | 0.3  | 0.5  | 0.3  | 0.3  |
| Plane reflectance   |     | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  | 0.2             | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions     |     | Viewing C0-180 |      |      |      |      | Viewing C90-270 |      |      |      |      |
| 2H                  | 2H  | -9.3           | -8.4 | -8.9 | -8.1 | -7.7 | -10.0           | -9.1 | -9.6 | -8.8 | -8.4 |
|                     | 3H  | -6.7           | -5.9 | -6.3 | -5.6 | -5.2 | -7.3            | -6.5 | -6.9 | -6.2 | -5.8 |
|                     | 4H  | -5.6           | -4.9 | -5.2 | -4.6 | -4.2 | -5.7            | -4.9 | -5.2 | -4.6 | -4.2 |
|                     | 6H  | -3.8           | -3.1 | -3.4 | -2.8 | -2.4 | -3.6            | -2.9 | -3.2 | -2.6 | -2.2 |
|                     | 8H  | -3.1           | -2.5 | -2.7 | -2.1 | -1.7 | -2.6            | -2.0 | -2.2 | -1.6 | -1.2 |
|                     | 12H | -1.8           | -1.2 | -1.3 | -0.8 | -0.3 | -1.5            | -0.9 | -1.1 | -0.6 | -0.1 |
| 4H                  | 2H  | -8.4           | -7.7 | -8.0 | -7.3 | -6.9 | -9.3            | -8.5 | -8.8 | -8.2 | -7.8 |
|                     | 3H  | -5.6           | -5.0 | -5.2 | -4.6 | -4.2 | -6.4            | -5.8 | -6.0 | -5.4 | -5.0 |
|                     | 4H  | -4.4           | -3.9 | -4.0 | -3.5 | -3.0 | -4.3            | -3.8 | -3.9 | -3.4 | -2.9 |
|                     | 6H  | -2.2           | -1.8 | -1.7 | -1.3 | -0.8 | -2.1            | -1.7 | -1.6 | -1.2 | -0.7 |
|                     | 8H  | -1.4           | -0.9 | -0.9 | -0.5 | 0.0  | -1.1            | -0.7 | -0.6 | -0.3 | 0.2  |
|                     | 12H | 0.1            | 0.5  | 0.6  | 1.0  | 1.4  | 0.1             | 0.5  | 0.6  | 1.0  | 1.4  |
| 8H                  | 4H  | -3.7           | -3.3 | -3.2 | -2.8 | -2.4 | -3.8            | -3.4 | -3.3 | -2.9 | -2.4 |
|                     | 6H  | -1.1           | -0.8 | -0.6 | -0.3 | 0.2  | -1.3            | -0.9 | -0.8 | -0.4 | 0.0  |
|                     | 8H  | 0.0            | 0.3  | 0.6  | 0.9  | 1.4  | -0.2            | 0.1  | 0.4  | 0.7  | 1.2  |
|                     | 12H | 1.8            | 2.0  | 2.3  | 2.5  | 3.1  | 1.4             | 1.7  | 1.9  | 2.2  | 2.7  |
| 12H                 | 4H  | -3.5           | -3.1 | -3.0 | -2.6 | -2.2 | -3.6            | -3.2 | -3.1 | -2.7 | -2.2 |
|                     | 6H  | -0.8           | -0.5 | -0.3 | 0.0  | 0.5  | -0.9            | -0.6 | -0.4 | -0.1 | 0.4  |
|                     | 8H  | 0.6            | 0.8  | 1.1  | 1.3  | 1.9  | 0.3             | 0.6  | 0.8  | 1.1  | 1.6  |

Corrected UGR values based on total output energy  
SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0