

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057191

Luminaire Tested: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057191  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 1000 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

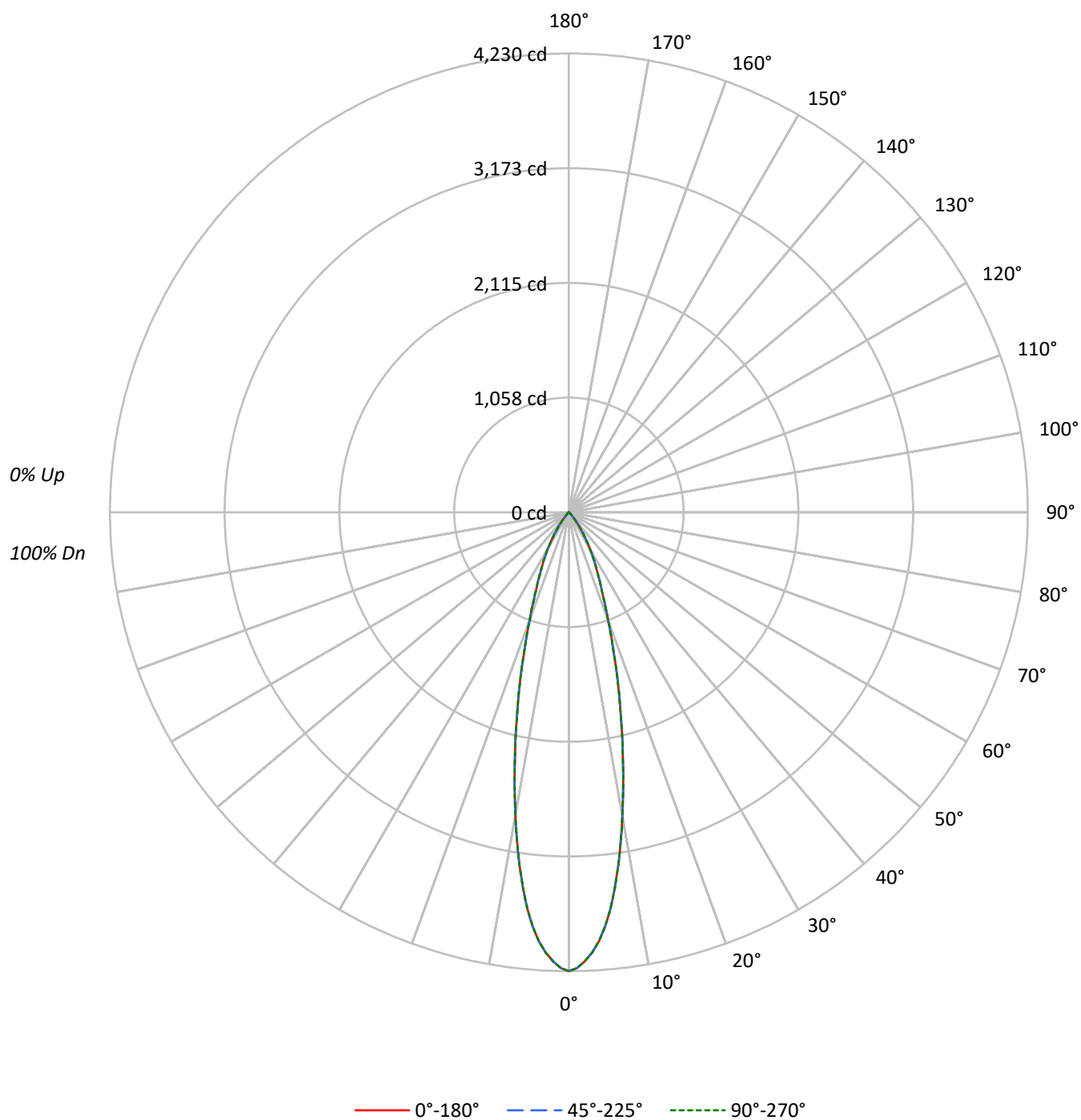
Lumens per Lamp: N/A  
Luminaire Lumens: 1287.6 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1057191

CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057191

CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 106 |  | 106 | 105 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  |  | 101 | 99  | 97  |  | 98  | 96  | 95  |  | 96  | 94  | 93  |
| 3   | 106 | 101 | 97  | 93  | 104 | 99  | 96  | 93  |  | 97  | 94  | 91  |  | 95  | 92  | 90  |  | 92  | 90  | 88  |
| 4   | 102 | 96  | 91  | 88  | 100 | 95  | 91  | 87  |  | 93  | 89  | 86  |  | 91  | 88  | 85  |  | 89  | 87  | 85  |
| 5   | 98  | 92  | 87  | 83  | 97  | 91  | 86  | 83  |  | 89  | 85  | 82  |  | 87  | 84  | 82  |  | 86  | 83  | 81  |
| 6   | 95  | 88  | 83  | 79  | 93  | 87  | 82  | 79  |  | 85  | 82  | 79  |  | 84  | 81  | 78  |  | 83  | 80  | 78  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  |  | 82  | 78  | 75  |  | 81  | 78  | 75  |  | 80  | 77  | 75  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  |  | 76  | 72  | 69  |  | 76  | 72  | 69  |  | 75  | 71  | 69  |
| 10  | 83  | 75  | 70  | 67  | 82  | 74  | 70  | 67  |  | 74  | 70  | 67  |  | 73  | 69  | 67  |  | 72  | 69  | 67  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2725573 | 2725573 | 2725573 |
| 5°  | 2478202 | 2478202 | 2478202 |
| 10° | 1858777 | 1858777 | 1858777 |
| 15° | 1207212 | 1207212 | 1207212 |
| 20° | 723152  | 723152  | 723152  |
| 25° | 450656  | 450656  | 450656  |
| 30° | 286111  | 286111  | 286111  |
| 35° | 149393  | 149393  | 149393  |
| 40° | 59811   | 59811   | 59811   |
| 45° | 20141   | 20141   | 20141   |
| 50° | 10527   | 10527   | 10527   |
| 55° | 6516    | 6516    | 6516    |
| 60° | 6058    | 6058    | 6058    |
| 65° | 3507    | 3507    | 3507    |
| 70° | 2261    | 2261    | 2261    |
| 75° | 2988    | 2988    | 2988    |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20141 cd/sqm

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CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 333.1  | 25.9      |
| 10°-20°   | 499.8  | 38.8      |
| 20°-30°   | 298.8  | 23.2      |
| 30°-40°   | 124.6  | 9.7       |
| 40°-50°   | 22.0   | 1.7       |
| 50°-60°   | 5.8    | 0.5       |
| 60°-70°   | 2.7    | 0.2       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1131.7 | 87.9      |
| 0°-40°    | 1256.2 | 97.6      |
| 0°-60°    | 1284.1 | 99.7      |
| 0°-90°    | 1287.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1287.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4230 | 4230  | 4230 | 4230  | 4230 |      |
| 5°  | 3831 | 3831  | 3831 | 3831  | 3831 | 333  |
| 15° | 1810 | 1810  | 1810 | 1810  | 1810 | 500  |
| 25° | 634  | 634   | 634  | 634   | 634  | 299  |
| 35° | 190  | 190   | 190  | 190   | 190  | 125  |
| 45° | 22   | 22    | 22   | 22    | 22   | 22   |
| 55° | 6    | 6     | 6    | 6     | 6    | 6    |
| 65° | 2    | 2     | 2    | 2     | 2    | 3    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1057191

CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 4229.5 | 4229.5 | 4229.5 | 4229.5 | 4229.5 |
| 1°  | 4202.7 | 4202.7 | 4202.7 | 4202.7 | 4202.7 |
| 2°  | 4143.3 | 4143.3 | 4143.3 | 4143.3 | 4143.3 |
| 3°  | 4065.2 | 4065.2 | 4065.2 | 4065.2 | 4065.2 |
| 4°  | 3963.8 | 3963.8 | 3963.8 | 3963.8 | 3963.8 |
| 5°  | 3831.0 | 3831.0 | 3831.0 | 3831.0 | 3831.0 |
| 6°  | 3672.5 | 3672.5 | 3672.5 | 3672.5 | 3672.5 |
| 7°  | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 |
| 8°  | 3277.6 | 3277.6 | 3277.6 | 3277.6 | 3277.6 |
| 9°  | 3059.7 | 3059.7 | 3059.7 | 3059.7 | 3059.7 |
| 10° | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 |
| 11° | 2618.1 | 2618.1 | 2618.1 | 2618.1 | 2618.1 |
| 12° | 2406.0 | 2406.0 | 2406.0 | 2406.0 | 2406.0 |
| 13° | 2197.5 | 2197.5 | 2197.5 | 2197.5 | 2197.5 |
| 14° | 1998.2 | 1998.2 | 1998.2 | 1998.2 | 1998.2 |
| 15° | 1809.5 | 1809.5 | 1809.5 | 1809.5 | 1809.5 |
| 16° | 1640.8 | 1640.8 | 1640.8 | 1640.8 | 1640.8 |
| 17° | 1472.0 | 1472.0 | 1472.0 | 1472.0 | 1472.0 |
| 18° | 1321.0 | 1321.0 | 1321.0 | 1321.0 | 1321.0 |
| 19° | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 |
| 20° | 1054.5 | 1054.5 | 1054.5 | 1054.5 | 1054.5 |
| 21° | 955.7  | 955.7  | 955.7  | 955.7  | 955.7  |
| 22° | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  |
| 23° | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  |
| 24° | 703.3  | 703.3  | 703.3  | 703.3  | 703.3  |
| 25° | 633.8  | 633.8  | 633.8  | 633.8  | 633.8  |
| 26° | 580.2  | 580.2  | 580.2  | 580.2  | 580.2  |
| 27° | 526.6  | 526.6  | 526.6  | 526.6  | 526.6  |
| 28° | 476.8  | 476.8  | 476.8  | 476.8  | 476.8  |
| 29° | 430.6  | 430.6  | 430.6  | 430.6  | 430.6  |
| 30° | 384.5  | 384.5  | 384.5  | 384.5  | 384.5  |
| 31° | 343.0  | 343.0  | 343.0  | 343.0  | 343.0  |
| 32° | 301.5  | 301.5  | 301.5  | 301.5  | 301.5  |
| 33° | 262.6  | 262.6  | 262.6  | 262.6  | 262.6  |
| 34° | 226.3  | 226.3  | 226.3  | 226.3  | 226.3  |
| 35° | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  |
| 36° | 162.0  | 162.0  | 162.0  | 162.0  | 162.0  |
| 37° | 134.0  | 134.0  | 134.0  | 134.0  | 134.0  |
| 38° | 110.2  | 110.2  | 110.2  | 110.2  | 110.2  |
| 39° | 90.6   | 90.6   | 90.6   | 90.6   | 90.6   |
| 40° | 71.1   | 71.1   | 71.1   | 71.1   | 71.1   |
| 41° | 58.5   | 58.5   | 58.5   | 58.5   | 58.5   |
| 42° | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   |
| 43° | 36.1   | 36.1   | 36.1   | 36.1   | 36.1   |
| 44° | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   |

TEST NUMBER: P1057191

CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 22.1 | 22.1  | 22.1 | 22.1  | 22.1 |
| 46° | 18.9 | 18.9  | 18.9 | 18.9  | 18.9 |
| 47° | 15.6 | 15.6  | 15.6 | 15.6  | 15.6 |
| 48° | 13.3 | 13.3  | 13.3 | 13.3  | 13.3 |
| 49° | 11.9 | 11.9  | 11.9 | 11.9  | 11.9 |
| 50° | 10.5 | 10.5  | 10.5 | 10.5  | 10.5 |
| 51° | 9.6  | 9.6   | 9.6  | 9.6   | 9.6  |
| 52° | 8.6  | 8.6   | 8.6  | 8.6   | 8.6  |
| 53° | 7.7  | 7.7   | 7.7  | 7.7   | 7.7  |
| 54° | 6.8  | 6.8   | 6.8  | 6.8   | 6.8  |
| 55° | 5.8  | 5.8   | 5.8  | 5.8   | 5.8  |
| 56° | 5.4  | 5.4   | 5.4  | 5.4   | 5.4  |
| 57° | 4.9  | 4.9   | 4.9  | 4.9   | 4.9  |
| 58° | 4.7  | 4.7   | 4.7  | 4.7   | 4.7  |
| 59° | 4.7  | 4.7   | 4.7  | 4.7   | 4.7  |
| 60° | 4.7  | 4.7   | 4.7  | 4.7   | 4.7  |
| 61° | 4.2  | 4.2   | 4.2  | 4.2   | 4.2  |
| 62° | 3.7  | 3.7   | 3.7  | 3.7   | 3.7  |
| 63° | 3.3  | 3.3   | 3.3  | 3.3   | 3.3  |
| 64° | 2.8  | 2.8   | 2.8  | 2.8   | 2.8  |
| 65° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 66° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 67° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 68° | 2.1  | 2.1   | 2.1  | 2.1   | 2.1  |
| 69° | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 70° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 71° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 72° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 73° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 74° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 75° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 76° | 0.7  | 0.7   | 0.7  | 0.7   | 0.7  |
| 77° | 0.2  | 0.2   | 0.2  | 0.2   | 0.2  |
| 78° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 79° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 80° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 81° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 82° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 83° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 84° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 85° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 86° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 87° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 88° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 89° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |



TEST NUMBER: P1057191  
CATALOG NUMBER: PRLX-CYL2S-X-935-10L-NF-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |



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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 5.99             | 6.90 | 6.35 | 7.21 | 7.52 | 5.99           | 6.90 | 6.35 | 7.21 | 7.52 |
|                 | 3H   | 6.63             | 7.42 | 7.01 | 7.76 | 8.13 | 6.63           | 7.42 | 7.01 | 7.76 | 8.13 |
|                 | 4H   | 6.89             | 7.62 | 7.29 | 7.98 | 8.37 | 6.89           | 7.62 | 7.29 | 7.98 | 8.37 |
|                 | 6H   | 6.77             | 7.44 | 7.19 | 7.82 | 8.22 | 6.77           | 7.44 | 7.19 | 7.82 | 8.22 |
|                 | 8H   | 6.71             | 7.34 | 7.15 | 7.73 | 8.14 | 6.71           | 7.34 | 7.15 | 7.73 | 8.14 |
|                 | 12H  | 6.65             | 7.25 | 7.08 | 7.63 | 8.06 | 6.65           | 7.25 | 7.08 | 7.63 | 8.06 |
| 4H              | 2H   | 6.06             | 6.80 | 6.47 | 7.16 | 7.55 | 6.06           | 6.80 | 6.47 | 7.16 | 7.55 |
|                 | 3H   | 6.79             | 7.39 | 7.20 | 7.80 | 8.20 | 6.79           | 7.39 | 7.20 | 7.80 | 8.20 |
|                 | 4H   | 7.15             | 7.69 | 7.59 | 8.11 | 8.56 | 7.15           | 7.69 | 7.59 | 8.11 | 8.56 |
|                 | 6H   | 7.04             | 7.49 | 7.51 | 7.94 | 8.42 | 7.04           | 7.49 | 7.51 | 7.94 | 8.42 |
|                 | 8H   | 6.96             | 7.38 | 7.44 | 7.83 | 8.31 | 6.96           | 7.38 | 7.44 | 7.83 | 8.31 |
|                 | 12H  | 6.89             | 7.25 | 7.38 | 7.74 | 8.22 | 6.89           | 7.25 | 7.38 | 7.74 | 8.22 |
| 8H              | 4H   | 7.08             | 7.50 | 7.55 | 7.95 | 8.43 | 7.08           | 7.50 | 7.55 | 7.95 | 8.43 |
|                 | 6H   | 6.95             | 7.28 | 7.46 | 7.78 | 8.27 | 6.95           | 7.28 | 7.46 | 7.78 | 8.27 |
|                 | 8H   | 6.87             | 7.16 | 7.41 | 7.69 | 8.19 | 6.87           | 7.16 | 7.41 | 7.69 | 8.19 |
|                 | 12H  | 6.81             | 7.06 | 7.34 | 7.56 | 8.15 | 6.81           | 7.06 | 7.34 | 7.56 | 8.15 |
| 12H             | 4H   | 7.01             | 7.37 | 7.50 | 7.86 | 8.34 | 7.01           | 7.37 | 7.50 | 7.86 | 8.34 |
|                 | 6H   | 6.87             | 7.16 | 7.41 | 7.69 | 8.19 | 6.87           | 7.16 | 7.41 | 7.69 | 8.19 |
|                 | 8H   | 6.81             | 7.06 | 7.34 | 7.56 | 8.15 | 6.81           | 7.06 | 7.34 | 7.56 | 8.15 |