

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: P1057193

Luminaire Tested: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057193  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 1500 LUMENS, FLOOD OPTIC (38-DEGREES)  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

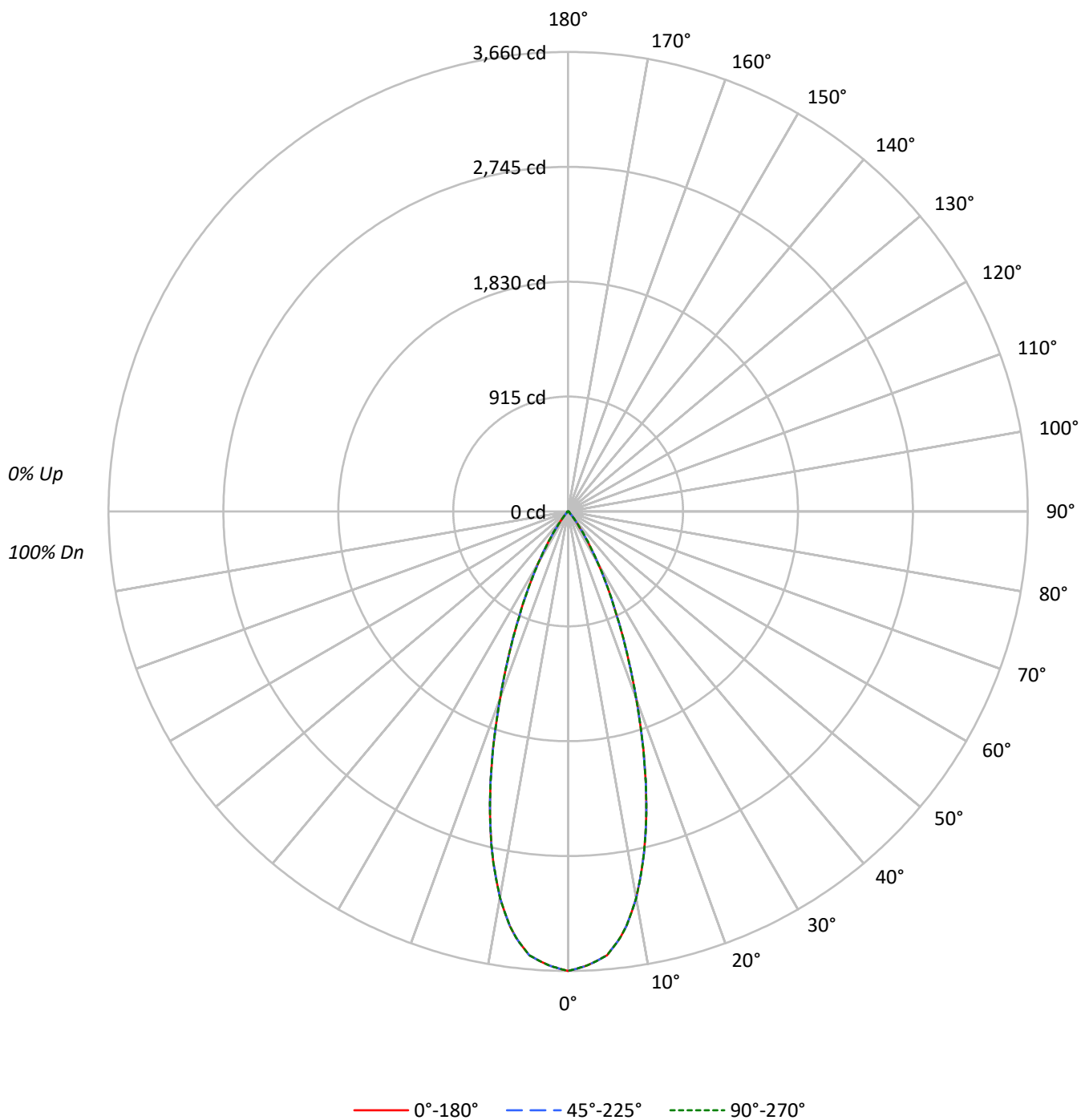
Lumens per Lamp: N/A  
Luminaire Lumens: 1568.5 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
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: P1057193

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057193

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 |    |    |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  |    |    |
| 2   | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  |    |    |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 87  |    |    |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 82  |    |    |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 82  | 80  | 79  |    |    |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 77  | 83  | 80  | 77  | 82  | 79  | 77  | 75  |    |    |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |    |    |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 69  |    |    |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 66  |    |    |
| 10  | 81  | 73  | 69  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 71  | 67  | 65  | 64  |    |    |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2358576 | 2358576 | 2358576 |
| 5°  | 2295458 | 2295458 | 2295458 |
| 10° | 2045336 | 2045336 | 2045336 |
| 15° | 1604768 | 1604768 | 1604768 |
| 20° | 1082362 | 1082362 | 1082362 |
| 25° | 651951  | 651951  | 651951  |
| 30° | 352709  | 352709  | 352709  |
| 35° | 148685  | 148685  | 148685  |
| 40° | 49548   | 49548   | 49548   |
| 45° | 21143   | 21143   | 21143   |
| 50° | 12431   | 12431   | 12431   |
| 55° | 8651    | 8651    | 8651    |
| 60° | 5929    | 5929    | 5929    |
| 65° | 4727    | 4727    | 4727    |
| 70° | 2826    | 2826    | 2826    |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21143 cd/sqm

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CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 324.7  | 20.7      |
| 10°-20°   | 652.3  | 41.6      |
| 20°-30°   | 428.4  | 27.3      |
| 30°-40°   | 131.9  | 8.4       |
| 40°-50°   | 20.9   | 1.3       |
| 50°-60°   | 7.1    | 0.5       |
| 60°-70°   | 2.7    | 0.2       |
| 70°-80°   | 0.6    | 0.0       |
| 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°    | 1405.5 | 89.6      |
| 0°-40°    | 1537.3 | 98.0      |
| 0°-60°    | 1565.3 | 99.8      |
| 0°-90°    | 1568.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1568.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3660 | 3660  | 3660 | 3660  | 3660 |      |
| 5°  | 3548 | 3548  | 3548 | 3548  | 3548 | 325  |
| 15° | 2405 | 2405  | 2405 | 2405  | 2405 | 652  |
| 25° | 917  | 917   | 917  | 917   | 917  | 428  |
| 35° | 189  | 189   | 189  | 189   | 189  | 132  |
| 45° | 23   | 23    | 23   | 23    | 23   | 21   |
| 55° | 8    | 8     | 8    | 8     | 8    | 7    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 0    | 0     | 0    | 0     | 0    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1057193

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 3660.0 | 3660.0 | 3660.0 | 3660.0 | 3660.0 |
| 1°  | 3643.3 | 3643.3 | 3643.3 | 3643.3 | 3643.3 |
| 2°  | 3626.6 | 3626.6 | 3626.6 | 3626.6 | 3626.6 |
| 3°  | 3604.3 | 3604.3 | 3604.3 | 3604.3 | 3604.3 |
| 4°  | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 |
| 5°  | 3548.5 | 3548.5 | 3548.5 | 3548.5 | 3548.5 |
| 6°  | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 7°  | 3418.4 | 3418.4 | 3418.4 | 3418.4 | 3418.4 |
| 8°  | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 |
| 9°  | 3229.7 | 3229.7 | 3229.7 | 3229.7 | 3229.7 |
| 10° | 3125.7 | 3125.7 | 3125.7 | 3125.7 | 3125.7 |
| 11° | 2993.1 | 2993.1 | 2993.1 | 2993.1 | 2993.1 |
| 12° | 2860.5 | 2860.5 | 2860.5 | 2860.5 | 2860.5 |
| 13° | 2716.4 | 2716.4 | 2716.4 | 2716.4 | 2716.4 |
| 14° | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 |
| 15° | 2405.4 | 2405.4 | 2405.4 | 2405.4 | 2405.4 |
| 16° | 2240.0 | 2240.0 | 2240.0 | 2240.0 | 2240.0 |
| 17° | 2074.6 | 2074.6 | 2074.6 | 2074.6 | 2074.6 |
| 18° | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 |
| 19° | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 |
| 20° | 1578.3 | 1578.3 | 1578.3 | 1578.3 | 1578.3 |
| 21° | 1434.0 | 1434.0 | 1434.0 | 1434.0 | 1434.0 |
| 22° | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 |
| 23° | 1157.3 | 1157.3 | 1157.3 | 1157.3 | 1157.3 |
| 24° | 1037.1 | 1037.1 | 1037.1 | 1037.1 | 1037.1 |
| 25° | 916.9  | 916.9  | 916.9  | 916.9  | 916.9  |
| 26° | 820.3  | 820.3  | 820.3  | 820.3  | 820.3  |
| 27° | 723.6  | 723.6  | 723.6  | 723.6  | 723.6  |
| 28° | 635.0  | 635.0  | 635.0  | 635.0  | 635.0  |
| 29° | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  |
| 30° | 474.0  | 474.0  | 474.0  | 474.0  | 474.0  |
| 31° | 408.3  | 408.3  | 408.3  | 408.3  | 408.3  |
| 32° | 342.6  | 342.6  | 342.6  | 342.6  | 342.6  |
| 33° | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  |
| 34° | 237.3  | 237.3  | 237.3  | 237.3  | 237.3  |
| 35° | 189.0  | 189.0  | 189.0  | 189.0  | 189.0  |
| 36° | 156.1  | 156.1  | 156.1  | 156.1  | 156.1  |
| 37° | 123.3  | 123.3  | 123.3  | 123.3  | 123.3  |
| 38° | 97.3   | 97.3   | 97.3   | 97.3   | 97.3   |
| 39° | 78.1   | 78.1   | 78.1   | 78.1   | 78.1   |
| 40° | 58.9   | 58.9   | 58.9   | 58.9   | 58.9   |
| 41° | 48.9   | 48.9   | 48.9   | 48.9   | 48.9   |
| 42° | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   |
| 43° | 31.9   | 31.9   | 31.9   | 31.9   | 31.9   |
| 44° | 27.6   | 27.6   | 27.6   | 27.6   | 27.6   |

TEST NUMBER: P1057193

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 23.2 | 23.2  | 23.2 | 23.2  | 23.2 |
| 46° | 20.8 | 20.8  | 20.8 | 20.8  | 20.8 |
| 47° | 18.3 | 18.3  | 18.3 | 18.3  | 18.3 |
| 48° | 16.1 | 16.1  | 16.1 | 16.1  | 16.1 |
| 49° | 14.2 | 14.2  | 14.2 | 14.2  | 14.2 |
| 50° | 12.4 | 12.4  | 12.4 | 12.4  | 12.4 |
| 51° | 11.2 | 11.2  | 11.2 | 11.2  | 11.2 |
| 52° | 9.9  | 9.9   | 9.9  | 9.9   | 9.9  |
| 53° | 9.0  | 9.0   | 9.0  | 9.0   | 9.0  |
| 54° | 8.4  | 8.4   | 8.4  | 8.4   | 8.4  |
| 55° | 7.7  | 7.7   | 7.7  | 7.7   | 7.7  |
| 56° | 7.1  | 7.1   | 7.1  | 7.1   | 7.1  |
| 57° | 6.5  | 6.5   | 6.5  | 6.5   | 6.5  |
| 58° | 5.9  | 5.9   | 5.9  | 5.9   | 5.9  |
| 59° | 5.3  | 5.3   | 5.3  | 5.3   | 5.3  |
| 60° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 61° | 4.0  | 4.0   | 4.0  | 4.0   | 4.0  |
| 62° | 3.4  | 3.4   | 3.4  | 3.4   | 3.4  |
| 63° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 64° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 65° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 66° | 2.5  | 2.5   | 2.5  | 2.5   | 2.5  |
| 67° | 1.9  | 1.9   | 1.9  | 1.9   | 1.9  |
| 68° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 69° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 70° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 71° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 72° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 73° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 74° | 0.6  | 0.6   | 0.6  | 0.6   | 0.6  |
| 75° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 76° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 77° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 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  |



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CATALOG NUMBER: PRLX-CYL2S-X-935-15L-FL-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 | 7.01             | 7.92 | 7.38 | 8.23 | 8.54 | 7.01           | 7.92 | 7.38 | 8.23 | 8.54 |
|                 | 3H   | 7.18             | 7.98 | 7.57 | 8.31 | 8.68 | 7.18           | 7.98 | 7.57 | 8.31 | 8.68 |
|                 | 4H   | 7.12             | 7.85 | 7.52 | 8.20 | 8.59 | 7.12           | 7.85 | 7.52 | 8.20 | 8.59 |
|                 | 6H   | 7.00             | 7.67 | 7.42 | 8.04 | 8.44 | 7.00           | 7.67 | 7.42 | 8.04 | 8.44 |
|                 | 8H   | 6.94             | 7.56 | 7.38 | 7.96 | 8.37 | 6.94           | 7.56 | 7.38 | 7.96 | 8.37 |
|                 | 12H  | 6.87             | 7.47 | 7.31 | 7.86 | 8.29 | 6.87           | 7.47 | 7.31 | 7.86 | 8.29 |
| 4H              | 2H   | 7.09             | 7.82 | 7.50 | 8.18 | 8.57 | 7.09           | 7.82 | 7.50 | 8.18 | 8.57 |
|                 | 3H   | 7.40             | 8.00 | 7.82 | 8.41 | 8.82 | 7.40           | 8.00 | 7.82 | 8.41 | 8.82 |
|                 | 4H   | 7.31             | 7.84 | 7.75 | 8.26 | 8.71 | 7.31           | 7.84 | 7.75 | 8.26 | 8.71 |
|                 | 6H   | 7.19             | 7.64 | 7.66 | 8.09 | 8.57 | 7.19           | 7.64 | 7.66 | 8.09 | 8.57 |
|                 | 8H   | 7.11             | 7.53 | 7.59 | 7.98 | 8.46 | 7.11           | 7.53 | 7.59 | 7.98 | 8.46 |
|                 | 12H  | 7.04             | 7.40 | 7.54 | 7.89 | 8.37 | 7.04           | 7.40 | 7.54 | 7.89 | 8.37 |
| 8H              | 4H   | 7.15             | 7.58 | 7.63 | 8.03 | 8.50 | 7.15           | 7.58 | 7.63 | 8.03 | 8.50 |
|                 | 6H   | 7.03             | 7.35 | 7.54 | 7.86 | 8.35 | 7.03           | 7.35 | 7.54 | 7.86 | 8.35 |
|                 | 8H   | 6.95             | 7.24 | 7.49 | 7.76 | 8.26 | 6.95           | 7.24 | 7.49 | 7.76 | 8.26 |
|                 | 12H  | 6.89             | 7.14 | 7.42 | 7.64 | 8.22 | 6.89           | 7.14 | 7.42 | 7.64 | 8.22 |
| 12H             | 4H   | 7.09             | 7.45 | 7.58 | 7.94 | 8.41 | 7.09           | 7.45 | 7.58 | 7.94 | 8.41 |
|                 | 6H   | 6.95             | 7.24 | 7.49 | 7.76 | 8.26 | 6.95           | 7.24 | 7.49 | 7.76 | 8.26 |
|                 | 8H   | 6.89             | 7.14 | 7.42 | 7.64 | 8.22 | 6.89           | 7.14 | 7.42 | 7.64 | 8.22 |