

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: P1057186

Luminaire Tested: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057186  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 1500 LUMENS, MEDIUM OPTIC (23-DEGREES)  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

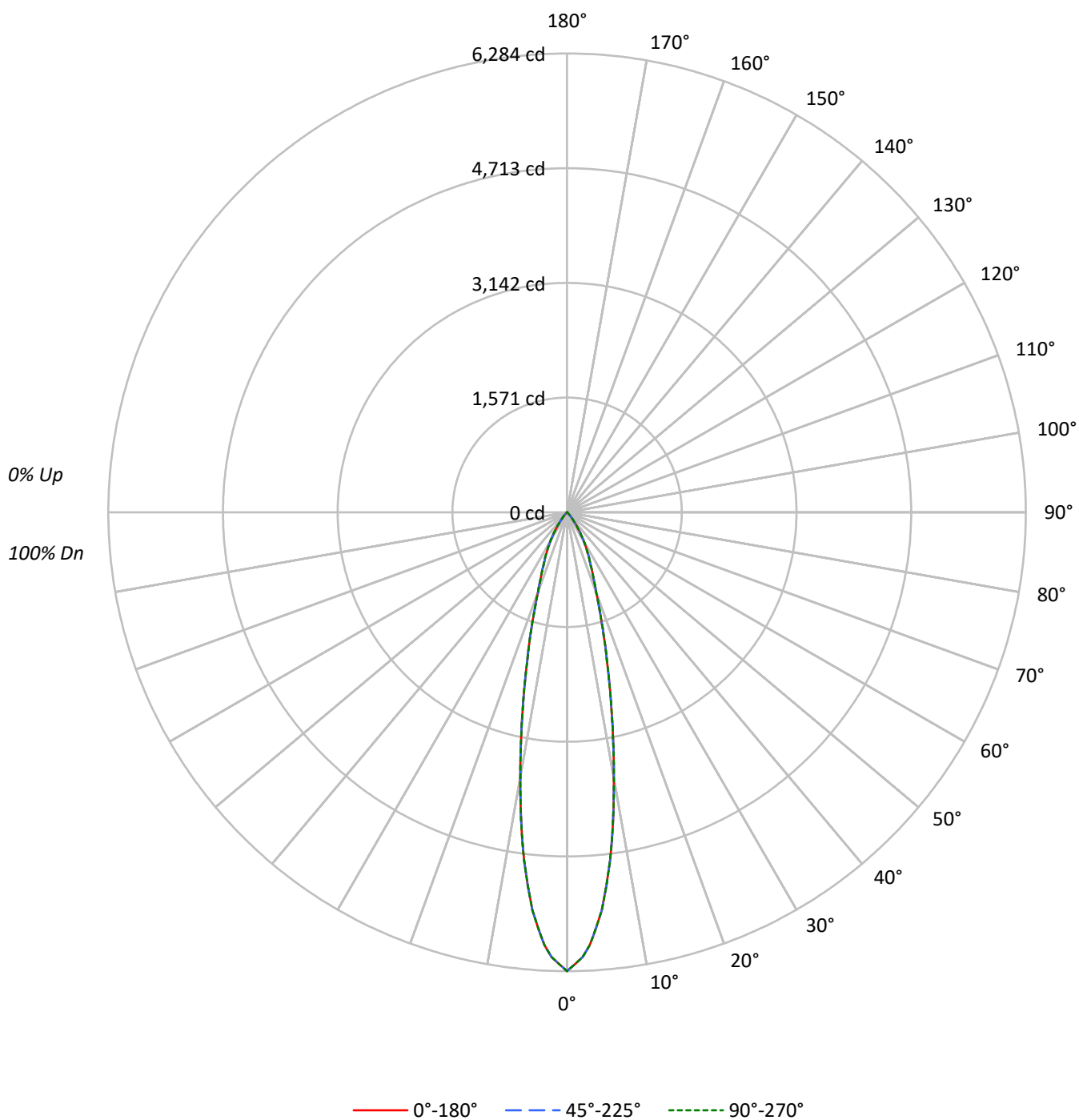
Lumens per Lamp: N/A  
Luminaire Lumens: 1584.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057186

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**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   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99  | 98  | 97  | 96  |    |    |
| 2   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 94  | 93  | 92  |    |    |
| 3   | 106 | 101 | 97  | 94  | 104 | 100 | 96  | 93  | 97  | 94  | 92  | 95  | 92  | 90  | 93  | 91  | 89  | 88  |    |    |
| 4   | 102 | 96  | 92  | 89  | 101 | 95  | 91  | 88  | 93  | 90  | 87  | 91  | 89  | 86  | 90  | 87  | 85  | 84  |    |    |
| 5   | 99  | 92  | 88  | 84  | 97  | 91  | 87  | 84  | 90  | 86  | 83  | 88  | 85  | 83  | 87  | 84  | 82  | 81  |    |    |
| 6   | 95  | 88  | 84  | 80  | 94  | 88  | 83  | 80  | 86  | 83  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 77  |    |    |
| 7   | 92  | 85  | 80  | 77  | 91  | 84  | 80  | 77  | 83  | 79  | 76  | 82  | 79  | 76  | 81  | 78  | 76  | 75  |    |    |
| 8   | 89  | 82  | 77  | 74  | 88  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 79  | 75  | 73  | 72  |    |    |
| 9   | 86  | 79  | 74  | 71  | 85  | 78  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |
| 10  | 84  | 76  | 72  | 69  | 83  | 76  | 72  | 69  | 75  | 71  | 68  | 74  | 71  | 68  | 74  | 71  | 68  | 67  |    |    |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 4049340 | 4049340 | 4049340 |
| 5°  | 3537341 | 3537341 | 3537341 |
| 10° | 2412890 | 2412890 | 2412890 |
| 15° | 1406157 | 1406157 | 1406157 |
| 20° | 801262  | 801262  | 801262  |
| 25° | 518560  | 518560  | 518560  |
| 30° | 342961  | 342961  | 342961  |
| 35° | 180152  | 180152  | 180152  |
| 40° | 69906   | 69906   | 69906   |
| 45° | 22601   | 22601   | 22601   |
| 50° | 11730   | 11730   | 11730   |
| 55° | 8202    | 8202    | 8202    |
| 60° | 5671    | 5671    | 5671    |
| 65° | 4422    | 4422    | 4422    |
| 70° | 2826    | 2826    | 2826    |
| 75° | 3735    | 3735    | 3735    |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22601 cd/sqm

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CATALOG NUMBER: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 462.5  | 29.2      |
| 10°-20°   | 593.5  | 37.4      |
| 20°-30°   | 342.6  | 21.6      |
| 30°-40°   | 149.9  | 9.5       |
| 40°-50°   | 25.4   | 1.6       |
| 50°-60°   | 6.7    | 0.4       |
| 60°-70°   | 3.2    | 0.2       |
| 70°-80°   | 1.0    | 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°    | 1398.6 | 88.3      |
| 0°-40°    | 1548.5 | 97.7      |
| 0°-60°    | 1580.6 | 99.7      |
| 0°-90°    | 1584.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1584.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6284 | 6284  | 6284 | 6284  | 6284 |      |
| 5°  | 5468 | 5468  | 5468 | 5468  | 5468 | 463  |
| 15° | 2108 | 2108  | 2108 | 2108  | 2108 | 593  |
| 25° | 729  | 729   | 729  | 729   | 729  | 343  |
| 35° | 229  | 229   | 229  | 229   | 229  | 150  |
| 45° | 25   | 25    | 25   | 25    | 25   | 25   |
| 55° | 7    | 7     | 7    | 7     | 7    | 7    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1057186

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 6283.7 | 6283.7 | 6283.7 | 6283.7 | 6283.7 |
| 1°  | 6189.8 | 6189.8 | 6189.8 | 6189.8 | 6189.8 |
| 2°  | 6095.8 | 6095.8 | 6095.8 | 6095.8 | 6095.8 |
| 3°  | 5932.8 | 5932.8 | 5932.8 | 5932.8 | 5932.8 |
| 4°  | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 |
| 5°  | 5468.3 | 5468.3 | 5468.3 | 5468.3 | 5468.3 |
| 6°  | 5139.9 | 5139.9 | 5139.9 | 5139.9 | 5139.9 |
| 7°  | 4811.4 | 4811.4 | 4811.4 | 4811.4 | 4811.4 |
| 8°  | 4455.2 | 4455.2 | 4455.2 | 4455.2 | 4455.2 |
| 9°  | 4071.3 | 4071.3 | 4071.3 | 4071.3 | 4071.3 |
| 10° | 3687.4 | 3687.4 | 3687.4 | 3687.4 | 3687.4 |
| 11° | 3338.5 | 3338.5 | 3338.5 | 3338.5 | 3338.5 |
| 12° | 2989.6 | 2989.6 | 2989.6 | 2989.6 | 2989.6 |
| 13° | 2673.6 | 2673.6 | 2673.6 | 2673.6 | 2673.6 |
| 14° | 2390.7 | 2390.7 | 2390.7 | 2390.7 | 2390.7 |
| 15° | 2107.7 | 2107.7 | 2107.7 | 2107.7 | 2107.7 |
| 16° | 1888.3 | 1888.3 | 1888.3 | 1888.3 | 1888.3 |
| 17° | 1668.9 | 1668.9 | 1668.9 | 1668.9 | 1668.9 |
| 18° | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 |
| 19° | 1324.7 | 1324.7 | 1324.7 | 1324.7 | 1324.7 |
| 20° | 1168.4 | 1168.4 | 1168.4 | 1168.4 | 1168.4 |
| 21° | 1065.1 | 1065.1 | 1065.1 | 1065.1 | 1065.1 |
| 22° | 961.8  | 961.8  | 961.8  | 961.8  | 961.8  |
| 23° | 874.0  | 874.0  | 874.0  | 874.0  | 874.0  |
| 24° | 801.7  | 801.7  | 801.7  | 801.7  | 801.7  |
| 25° | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  |
| 26° | 673.3  | 673.3  | 673.3  | 673.3  | 673.3  |
| 27° | 617.3  | 617.3  | 617.3  | 617.3  | 617.3  |
| 28° | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  |
| 29° | 512.3  | 512.3  | 512.3  | 512.3  | 512.3  |
| 30° | 460.9  | 460.9  | 460.9  | 460.9  | 460.9  |
| 31° | 412.5  | 412.5  | 412.5  | 412.5  | 412.5  |
| 32° | 364.1  | 364.1  | 364.1  | 364.1  | 364.1  |
| 33° | 317.7  | 317.7  | 317.7  | 317.7  | 317.7  |
| 34° | 273.3  | 273.3  | 273.3  | 273.3  | 273.3  |
| 35° | 229.0  | 229.0  | 229.0  | 229.0  | 229.0  |
| 36° | 195.2  | 195.2  | 195.2  | 195.2  | 195.2  |
| 37° | 161.3  | 161.3  | 161.3  | 161.3  | 161.3  |
| 38° | 132.2  | 132.2  | 132.2  | 132.2  | 132.2  |
| 39° | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  |
| 40° | 83.1   | 83.1   | 83.1   | 83.1   | 83.1   |
| 41° | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   |
| 42° | 54.0   | 54.0   | 54.0   | 54.0   | 54.0   |
| 43° | 42.3   | 42.3   | 42.3   | 42.3   | 42.3   |
| 44° | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   |

TEST NUMBER: P1057186

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-MD-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 24.8 | 24.8  | 24.8 | 24.8  | 24.8 |
| 46° | 21.3 | 21.3  | 21.3 | 21.3  | 21.3 |
| 47° | 17.8 | 17.8  | 17.8 | 17.8  | 17.8 |
| 48° | 15.2 | 15.2  | 15.2 | 15.2  | 15.2 |
| 49° | 13.4 | 13.4  | 13.4 | 13.4  | 13.4 |
| 50° | 11.7 | 11.7  | 11.7 | 11.7  | 11.7 |
| 51° | 10.5 | 10.5  | 10.5 | 10.5  | 10.5 |
| 52° | 9.3  | 9.3   | 9.3  | 9.3   | 9.3  |
| 53° | 8.5  | 8.5   | 8.5  | 8.5   | 8.5  |
| 54° | 7.9  | 7.9   | 7.9  | 7.9   | 7.9  |
| 55° | 7.3  | 7.3   | 7.3  | 7.3   | 7.3  |
| 56° | 6.7  | 6.7   | 6.7  | 6.7   | 6.7  |
| 57° | 6.1  | 6.1   | 6.1  | 6.1   | 6.1  |
| 58° | 5.5  | 5.5   | 5.5  | 5.5   | 5.5  |
| 59° | 5.0  | 5.0   | 5.0  | 5.0   | 5.0  |
| 60° | 4.4  | 4.4   | 4.4  | 4.4   | 4.4  |
| 61° | 4.4  | 4.4   | 4.4  | 4.4   | 4.4  |
| 62° | 4.4  | 4.4   | 4.4  | 4.4   | 4.4  |
| 63° | 4.1  | 4.1   | 4.1  | 4.1   | 4.1  |
| 64° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 65° | 2.9  | 2.9   | 2.9  | 2.9   | 2.9  |
| 66° | 2.9  | 2.9   | 2.9  | 2.9   | 2.9  |
| 67° | 2.9  | 2.9   | 2.9  | 2.9   | 2.9  |
| 68° | 2.6  | 2.6   | 2.6  | 2.6   | 2.6  |
| 69° | 2.0  | 2.0   | 2.0  | 2.0   | 2.0  |
| 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° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 74° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 75° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 76° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 77° | 0.3  | 0.3   | 0.3  | 0.3   | 0.3  |
| 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-930-15L-MD-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 | 6.50             | 7.41 | 6.87 | 7.72 | 8.03 | 6.50           | 7.41 | 6.87 | 7.72 | 8.03 |
|                 | 3H   | 7.20             | 8.00 | 7.59 | 8.33 | 8.70 | 7.20           | 8.00 | 7.59 | 8.33 | 8.70 |
|                 | 4H   | 7.49             | 8.22 | 7.90 | 8.58 | 8.97 | 7.49           | 8.22 | 7.90 | 8.58 | 8.97 |
|                 | 6H   | 7.37             | 8.05 | 7.79 | 8.42 | 8.82 | 7.37           | 8.05 | 7.79 | 8.42 | 8.82 |
|                 | 8H   | 7.31             | 7.94 | 7.75 | 8.34 | 8.75 | 7.31           | 7.94 | 7.75 | 8.34 | 8.75 |
|                 | 12H  | 7.25             | 7.85 | 7.69 | 8.23 | 8.67 | 7.25           | 7.85 | 7.69 | 8.23 | 8.67 |
| 4H              | 2H   | 6.62             | 7.35 | 7.03 | 7.71 | 8.10 | 6.62           | 7.35 | 7.03 | 7.71 | 8.10 |
|                 | 3H   | 7.40             | 8.00 | 7.82 | 8.41 | 8.82 | 7.40           | 8.00 | 7.82 | 8.41 | 8.82 |
|                 | 4H   | 7.80             | 8.33 | 8.24 | 8.76 | 9.21 | 7.80           | 8.33 | 8.24 | 8.76 | 9.21 |
|                 | 6H   | 7.68             | 8.14 | 8.16 | 8.59 | 9.07 | 7.68           | 8.14 | 8.16 | 8.59 | 9.07 |
|                 | 8H   | 7.61             | 8.03 | 8.08 | 8.48 | 8.96 | 7.61           | 8.03 | 8.08 | 8.48 | 8.96 |
|                 | 12H  | 7.54             | 7.90 | 8.03 | 8.39 | 8.87 | 7.54           | 7.90 | 8.03 | 8.39 | 8.87 |
| 8H              | 4H   | 7.73             | 8.15 | 8.21 | 8.60 | 9.08 | 7.73           | 8.15 | 8.21 | 8.60 | 9.08 |
|                 | 6H   | 7.60             | 7.93 | 8.12 | 8.44 | 8.93 | 7.60           | 7.93 | 8.12 | 8.44 | 8.93 |
|                 | 8H   | 7.53             | 7.82 | 8.06 | 8.34 | 8.84 | 7.53           | 7.82 | 8.06 | 8.34 | 8.84 |
|                 | 12H  | 7.47             | 7.72 | 7.99 | 8.22 | 8.80 | 7.47           | 7.72 | 7.99 | 8.22 | 8.80 |
| 12H             | 4H   | 7.66             | 8.02 | 8.15 | 8.51 | 8.99 | 7.66           | 8.02 | 8.15 | 8.51 | 8.99 |
|                 | 6H   | 7.53             | 7.82 | 8.06 | 8.34 | 8.84 | 7.53           | 7.82 | 8.06 | 8.34 | 8.84 |
|                 | 8H   | 7.47             | 7.72 | 7.99 | 8.22 | 8.80 | 7.47           | 7.72 | 7.99 | 8.22 | 8.80 |