

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



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980063

Luminaire Tested: PRLX-242-935-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-935-LL1-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

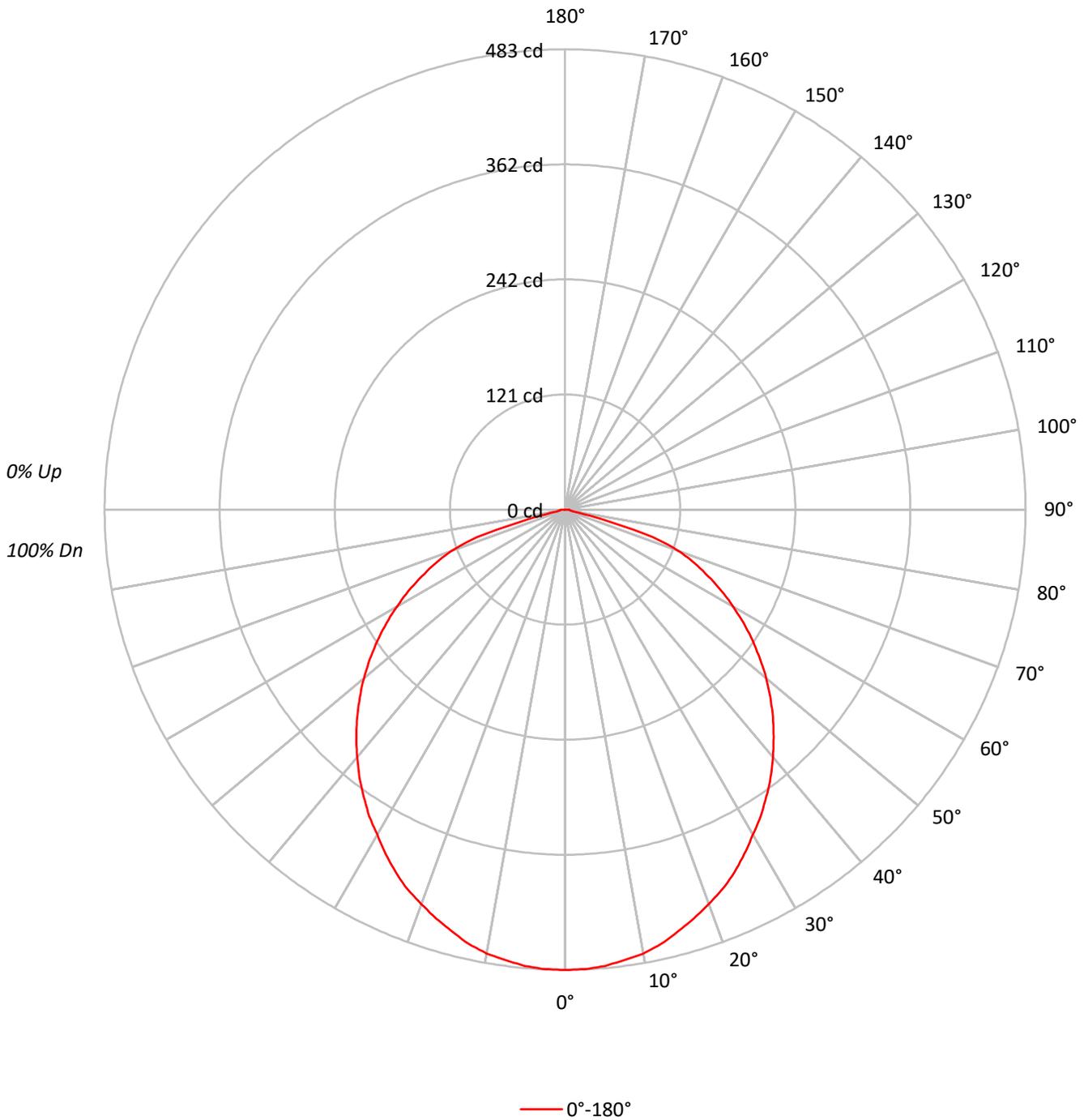
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1274.5 lumens  
Efficiency: N/A  
Efficacy: 169.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.5  
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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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 90  | 88  | 86  |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 85  | 79  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 2162 |
| 5°  | 2160 |
| 10° | 2150 |
| 15° | 2124 |
| 20° | 2098 |
| 25° | 2075 |
| 30° | 2035 |
| 35° | 2010 |
| 40° | 1981 |
| 45° | 1951 |
| 50° | 1917 |
| 55° | 1874 |
| 60° | 1821 |
| 65° | 1755 |
| 70° | 1658 |
| 75° | 688  |
| 80° | 149  |
| 85° | 236  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1951 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.6   | 3.6       |
| 10°-20°   | 129.4  | 10.1      |
| 20°-30°   | 193.3  | 15.2      |
| 30°-40°   | 230.3  | 18.1      |
| 40°-50°   | 237.7  | 18.7      |
| 50°-60°   | 214.6  | 16.8      |
| 60°-70°   | 163.9  | 12.9      |
| 70°-80°   | 55.4   | 4.3       |
| 80°-90°   | 4.2    | 0.3       |
| 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°    | 368.3  | 28.9      |
| 0°-40°    | 598.6  | 47.0      |
| 0°-60°    | 1051.0 | 82.5      |
| 0°-90°    | 1274.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1274.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 483 |      |
| 5°  | 481 | 46   |
| 15° | 458 | 129  |
| 25° | 420 | 193  |
| 35° | 368 | 230  |
| 45° | 308 | 238  |
| 55° | 240 | 215  |
| 65° | 166 | 164  |
| 75° | 40  | 55   |
| 85° | 5   | 4    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 483.1 |
| 2.5°  | 482.7 |
| 5°    | 480.8 |
| 7.5°  | 476.9 |
| 10°   | 473.1 |
| 12.5° | 466.9 |
| 15°   | 458.4 |
| 17.5° | 449.9 |
| 20°   | 440.6 |
| 22.5° | 431.4 |
| 25°   | 420.2 |
| 27.5° | 407.4 |
| 30°   | 393.9 |
| 32.5° | 381.9 |
| 35°   | 368.0 |
| 37.5° | 354.1 |
| 40°   | 339.1 |
| 42.5° | 324.0 |
| 45°   | 308.2 |
| 47.5° | 292.0 |
| 50°   | 275.4 |
| 52.5° | 258.0 |
| 55°   | 240.2 |
| 57.5° | 222.1 |
| 60°   | 203.5 |
| 62.5° | 185.0 |
| 65°   | 165.7 |
| 67.5° | 146.8 |
| 70°   | 126.7 |
| 72.5° | 96.9  |
| 75°   | 39.8  |
| 77.5° | 8.5   |
| 80°   | 5.8   |
| 82.5° | 5.4   |
| 85°   | 4.6   |
| 87.5° | 2.7   |
| 90°   | 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 | 14.54            | 16.14 | 14.90 | 16.45 | 16.77 | 14.54          | 16.14 | 14.90 | 16.45 | 16.77 |
|                 | 3H   | 16.36            | 17.81 | 16.74 | 18.13 | 18.49 | 16.36          | 17.81 | 16.74 | 18.13 | 18.49 |
|                 | 4H   | 16.59            | 17.95 | 16.99 | 18.30 | 18.67 | 16.59          | 17.95 | 16.99 | 18.30 | 18.67 |
|                 | 6H   | 16.54            | 17.80 | 16.96 | 18.16 | 18.55 | 16.54          | 17.80 | 16.96 | 18.16 | 18.55 |
|                 | 8H   | 16.52            | 17.71 | 16.94 | 18.10 | 18.50 | 16.52          | 17.71 | 16.94 | 18.10 | 18.50 |
|                 | 12H  | 16.49            | 17.63 | 16.92 | 18.02 | 18.44 | 16.49          | 17.63 | 16.92 | 18.02 | 18.44 |
| 4H              | 2H   | 15.19            | 16.54 | 15.58 | 16.89 | 17.26 | 15.19          | 16.54 | 15.58 | 16.89 | 17.26 |
|                 | 3H   | 17.19            | 18.32 | 17.60 | 18.71 | 19.11 | 17.19          | 18.32 | 17.60 | 18.71 | 19.11 |
|                 | 4H   | 17.41            | 18.42 | 17.84 | 18.83 | 19.27 | 17.41          | 18.42 | 17.84 | 18.83 | 19.27 |
|                 | 6H   | 17.37            | 18.24 | 17.83 | 18.69 | 19.14 | 17.37          | 18.24 | 17.83 | 18.69 | 19.14 |
|                 | 8H   | 17.34            | 18.15 | 17.80 | 18.60 | 19.06 | 17.34          | 18.15 | 17.80 | 18.60 | 19.06 |
|                 | 12H  | 17.32            | 18.05 | 17.80 | 18.53 | 19.00 | 17.32          | 18.05 | 17.80 | 18.53 | 19.00 |
| 8H              | 4H   | 17.46            | 18.28 | 17.92 | 18.72 | 19.19 | 17.46          | 18.28 | 17.92 | 18.72 | 19.19 |
|                 | 6H   | 17.41            | 18.08 | 17.90 | 18.57 | 19.04 | 17.41          | 18.08 | 17.90 | 18.57 | 19.04 |
|                 | 8H   | 17.38            | 17.97 | 17.89 | 18.48 | 18.97 | 17.38          | 17.97 | 17.89 | 18.48 | 18.97 |
|                 | 12H  | 17.37            | 17.89 | 17.88 | 18.38 | 18.95 | 17.37          | 17.89 | 17.88 | 18.38 | 18.95 |
| 12H             | 4H   | 17.44            | 18.17 | 17.92 | 18.64 | 19.11 | 17.44          | 18.17 | 17.92 | 18.64 | 19.11 |
|                 | 6H   | 17.37            | 17.97 | 17.88 | 18.47 | 18.96 | 17.37          | 17.97 | 17.88 | 18.47 | 18.96 |
|                 | 8H   | 17.36            | 17.88 | 17.87 | 18.37 | 18.94 | 17.36          | 17.88 | 17.87 | 18.37 | 18.94 |