

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: P979710

Luminaire Tested: PRLX-241-930-LL6-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-930-LL6-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2293.2 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

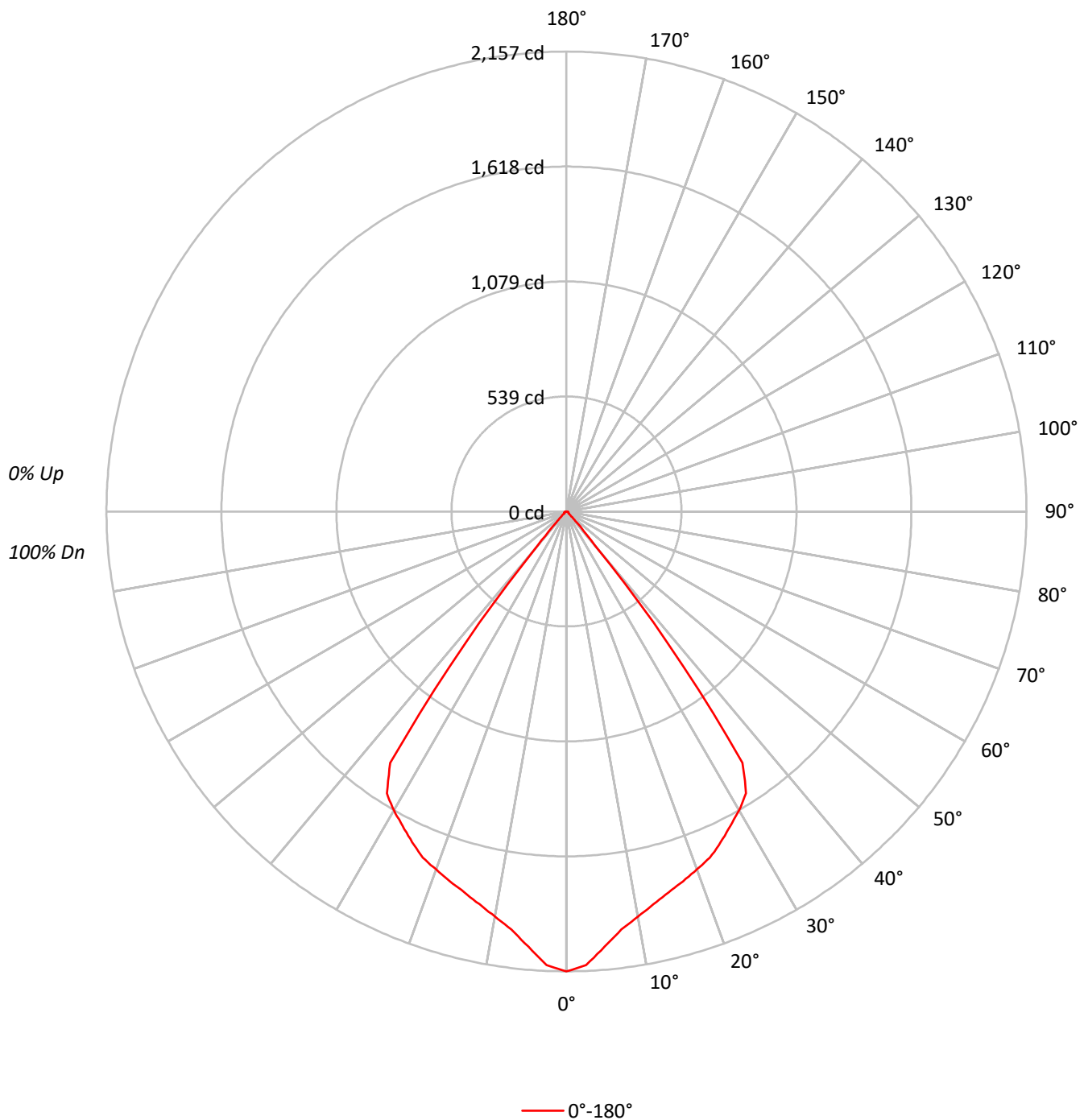
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 94  | 92  |  | 95  | 92  | 90  |  | 92  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 85  | 81  | 77  |  | 83  | 80  | 76  |  | 82  |
| 5   | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 6   | 87  | 77  | 71  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 72  |
| 7   | 82  | 72  | 66  | 62  | 81  | 72  | 66  | 62  | 70  | 65  | 61  |  | 69  | 65  | 61  |  | 68  |
| 8   | 78  | 68  | 62  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  |
| 9   | 74  | 64  | 58  | 54  | 73  | 63  | 57  | 53  | 62  | 57  | 53  |  | 61  | 57  | 53  |  | 61  |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 53  | 50  |  | 58  | 53  | 50  |  | 57  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 16629 |
| 5°  | 15856 |
| 10° | 15102 |
| 15° | 14759 |
| 20° | 14661 |
| 25° | 14560 |
| 30° | 14407 |
| 35° | 13547 |
| 40° | 2084  |
| 45° | 339   |
| 50° | 160   |
| 55° | 159   |
| 60° | 182   |
| 65° | 190   |
| 70° | 167   |
| 75° | 176   |
| 80° | 133   |
| 85° | 133   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 339 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 191.8  | 8.4       |
| 10°-20°   | 523.2  | 22.8      |
| 20°-30°   | 788.5  | 34.4      |
| 30°-40°   | 719.2  | 31.4      |
| 40°-50°   | 42.3   | 1.8       |
| 50°-60°   | 10.7   | 0.5       |
| 60°-70°   | 9.7    | 0.4       |
| 70°-80°   | 5.6    | 0.2       |
| 80°-90°   | 2.0    | 0.1       |
| 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°    | 1503.5 | 65.6      |
| 0°-40°    | 2222.7 | 96.9      |
| 0°-60°    | 2275.7 | 99.2      |
| 0°-90°    | 2293.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2293.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2157 |      |
| 5°  | 2049 | 192  |
| 15° | 1849 | 523  |
| 25° | 1712 | 789  |
| 35° | 1440 | 719  |
| 45° | 31   | 42   |
| 55° | 12   | 11   |
| 65° | 10   | 10   |
| 75° | 6    | 6    |
| 85° | 2    | 2    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2157.0 |
| 2.5°  | 2128.9 |
| 5°    | 2049.0 |
| 7.5°  | 1976.5 |
| 10°   | 1929.2 |
| 12.5° | 1886.3 |
| 15°   | 1849.3 |
| 17.5° | 1818.2 |
| 20°   | 1787.1 |
| 22.5° | 1757.5 |
| 25°   | 1711.7 |
| 27.5° | 1662.9 |
| 30°   | 1618.5 |
| 32.5° | 1566.7 |
| 35°   | 1439.5 |
| 37.5° | 775.2  |
| 40°   | 207.1  |
| 42.5° | 69.5   |
| 45°   | 31.1   |
| 47.5° | 16.3   |
| 50°   | 13.3   |
| 52.5° | 11.8   |
| 55°   | 11.8   |
| 57.5° | 11.8   |
| 60°   | 11.8   |
| 62.5° | 10.4   |
| 65°   | 10.4   |
| 67.5° | 8.9    |
| 70°   | 7.4    |
| 72.5° | 5.9    |
| 75°   | 5.9    |
| 77.5° | 4.4    |
| 80°   | 3.0    |
| 82.5° | 3.0    |
| 85°   | 1.5    |
| 87.5° | 1.5    |
| 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 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.05 | 0.00           | 0.00 | 0.00 | 0.00 | 0.05 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.14 | 0.00           | 0.00 | 0.00 | 0.00 | 0.14 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.22 | 0.70 | 0.00           | 0.00 | 0.00 | 0.22 | 0.70 |
|                 | 8H   | 0.00             | 0.02 | 0.07 | 0.47 | 0.95 | 0.00           | 0.02 | 0.07 | 0.47 | 0.95 |
|                 | 12H  | 0.00             | 0.15 | 0.27 | 0.64 | 1.11 | 0.00           | 0.15 | 0.27 | 0.64 | 1.11 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.33 | 0.00           | 0.00 | 0.00 | 0.00 | 0.33 |
|                 | 6H   | 0.00             | 0.02 | 0.20 | 0.53 | 1.01 | 0.00           | 0.02 | 0.20 | 0.53 | 1.01 |
|                 | 8H   | 0.10             | 0.39 | 0.63 | 0.92 | 1.42 | 0.10           | 0.39 | 0.63 | 0.92 | 1.42 |
|                 | 12H  | 0.38             | 0.64 | 0.91 | 1.14 | 1.72 | 0.38           | 0.64 | 0.91 | 1.14 | 1.72 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.30 | 0.00           | 0.00 | 0.00 | 0.00 | 0.30 |
|                 | 6H   | 0.00             | 0.04 | 0.27 | 0.56 | 1.06 | 0.00           | 0.04 | 0.27 | 0.56 | 1.06 |
|                 | 8H   | 0.22             | 0.48 | 0.75 | 0.98 | 1.56 | 0.22           | 0.48 | 0.75 | 0.98 | 1.56 |

END OF REPORT