

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: P979783

Luminaire Tested: PRLX-241-935-43L-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P979783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-935-43L-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

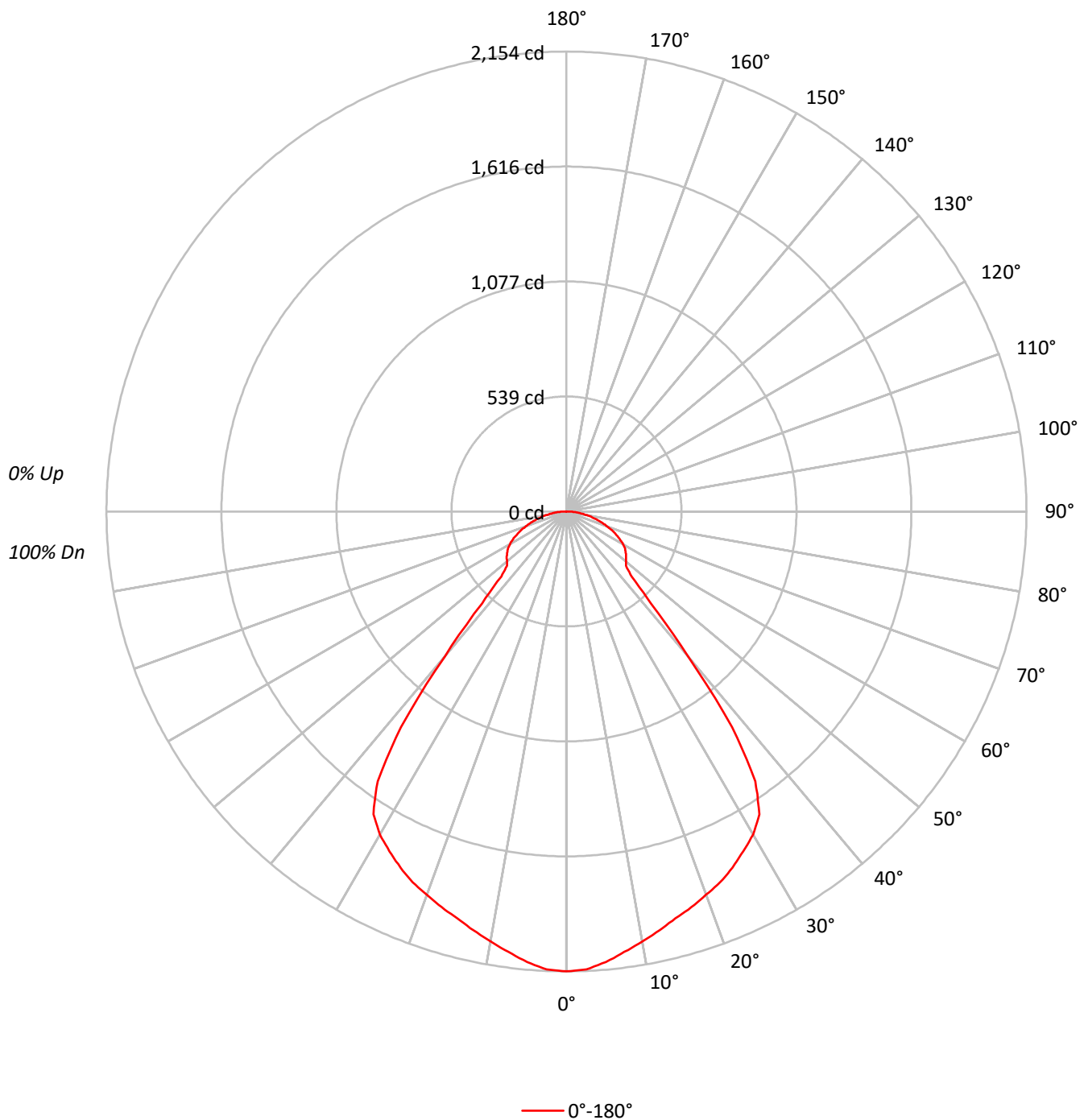
Lumens per Lamp: N/A  
Luminaire Lumens: 3652.6 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.5  
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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 107 | 103 | 100 |  | 108 | 104 | 101 | 98  |  | 100 | 98  | 95  |  | 96  | 94  | 92  |  | 93  | 91  | 90  |
| 2   | 103 | 96  | 90  | 85  |  | 100 | 94  | 89  | 84  |  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 84  | 81  | 79  |
| 3   | 95  | 86  | 80  | 74  |  | 93  | 85  | 79  | 73  |  | 82  | 77  | 72  |  | 79  | 75  | 71  |  | 77  | 73  | 70  |
| 4   | 89  | 78  | 71  | 65  |  | 87  | 77  | 70  | 65  |  | 75  | 69  | 64  |  | 73  | 67  | 63  |  | 71  | 66  | 62  |
| 5   | 83  | 72  | 64  | 58  |  | 81  | 71  | 63  | 58  |  | 69  | 62  | 57  |  | 67  | 61  | 57  |  | 65  | 60  | 56  |
| 6   | 77  | 66  | 58  | 52  |  | 76  | 65  | 58  | 52  |  | 63  | 57  | 52  |  | 62  | 56  | 51  |  | 60  | 55  | 51  |
| 7   | 72  | 61  | 53  | 48  |  | 71  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 47  |
| 8   | 68  | 56  | 49  | 43  |  | 67  | 55  | 48  | 43  |  | 54  | 48  | 43  |  | 53  | 47  | 43  |  | 52  | 47  | 43  |
| 9   | 64  | 52  | 45  | 40  |  | 63  | 52  | 45  | 40  |  | 51  | 44  | 40  |  | 50  | 44  | 39  |  | 49  | 43  | 39  |
| 10  | 60  | 49  | 42  | 37  |  | 59  | 48  | 41  | 37  |  | 47  | 41  | 37  |  | 46  | 41  | 36  |  | 46  | 40  | 36  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 16602 |
| 5°  | 16389 |
| 10° | 16010 |
| 15° | 15743 |
| 20° | 15676 |
| 25° | 15647 |
| 30° | 15556 |
| 35° | 14510 |
| 40° | 8931  |
| 45° | 4696  |
| 50° | 4360  |
| 55° | 4554  |
| 60° | 4716  |
| 65° | 4679  |
| 70° | 4544  |
| 75° | 4331  |
| 80° | 4080  |
| 85° | 3759  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 62.5°  
Luminance: 4718 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 199.8  | 5.5       |
| 10°-20°   | 558.2  | 15.3      |
| 20°-30°   | 847.5  | 23.2      |
| 30°-40°   | 903.0  | 24.7      |
| 40°-50°   | 385.8  | 10.6      |
| 50°-60°   | 302.6  | 8.3       |
| 60°-70°   | 252.9  | 6.9       |
| 70°-80°   | 154.1  | 4.2       |
| 80°-90°   | 48.7   | 1.3       |
| 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°    | 1605.5 | 44.0      |
| 0°-40°    | 2508.5 | 68.7      |
| 0°-60°    | 3196.8 | 87.5      |
| 0°-90°    | 3652.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3652.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2154 |      |
| 5°  | 2118 | 200  |
| 15° | 1972 | 558  |
| 25° | 1840 | 847  |
| 35° | 1542 | 903  |
| 45° | 431  | 386  |
| 55° | 339  | 303  |
| 65° | 256  | 253  |
| 75° | 145  | 154  |
| 85° | 42   | 49   |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2153.6 |
| 2.5°  | 2146.7 |
| 5°    | 2117.9 |
| 7.5°  | 2080.9 |
| 10°   | 2045.2 |
| 12.5° | 2009.5 |
| 15°   | 1972.5 |
| 17.5° | 1943.7 |
| 20°   | 1910.8 |
| 22.5° | 1880.6 |
| 25°   | 1839.5 |
| 27.5° | 1794.2 |
| 30°   | 1747.5 |
| 32.5° | 1681.7 |
| 35°   | 1541.8 |
| 37.5° | 1274.3 |
| 40°   | 887.5  |
| 42.5° | 585.7  |
| 45°   | 430.7  |
| 47.5° | 377.2  |
| 50°   | 363.5  |
| 52.5° | 352.5  |
| 55°   | 338.8  |
| 57.5° | 325.1  |
| 60°   | 305.9  |
| 62.5° | 282.6  |
| 65°   | 256.5  |
| 67.5° | 229.1  |
| 70°   | 201.6  |
| 72.5° | 172.8  |
| 75°   | 145.4  |
| 77.5° | 119.3  |
| 80°   | 91.9   |
| 82.5° | 67.2   |
| 85°   | 42.5   |
| 87.5° | 23.3   |
| 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 | 15.77            | 17.11 | 16.13 | 17.42 | 17.73 | 15.77          | 17.11 | 16.13 | 17.42 | 17.73 |
|                 | 3H   | 17.77            | 18.97 | 18.15 | 19.30 | 19.67 | 17.77          | 18.97 | 18.15 | 19.30 | 19.67 |
|                 | 4H   | 18.53            | 19.65 | 18.93 | 20.00 | 20.39 | 18.53          | 19.65 | 18.93 | 20.00 | 20.39 |
|                 | 6H   | 19.11            | 20.15 | 19.53 | 20.52 | 20.91 | 19.11          | 20.15 | 19.53 | 20.52 | 20.91 |
|                 | 8H   | 19.31            | 20.30 | 19.74 | 20.69 | 21.09 | 19.31          | 20.30 | 19.74 | 20.69 | 21.09 |
|                 | 12H  | 19.45            | 20.39 | 19.88 | 20.78 | 21.21 | 19.45          | 20.39 | 19.88 | 20.78 | 21.21 |
| 4H              | 2H   | 16.44            | 17.56 | 16.84 | 17.91 | 18.29 | 16.44          | 17.56 | 16.84 | 17.91 | 18.29 |
|                 | 3H   | 18.64            | 19.57 | 19.05 | 19.98 | 20.38 | 18.64          | 19.57 | 19.05 | 19.98 | 20.38 |
|                 | 4H   | 19.52            | 20.36 | 19.95 | 20.78 | 21.22 | 19.52          | 20.36 | 19.95 | 20.78 | 21.22 |
|                 | 6H   | 20.24            | 20.97 | 20.70 | 21.41 | 21.88 | 20.24          | 20.97 | 20.70 | 21.41 | 21.88 |
|                 | 8H   | 20.49            | 21.17 | 20.95 | 21.62 | 22.09 | 20.49          | 21.17 | 20.95 | 21.62 | 22.09 |
|                 | 12H  | 20.67            | 21.28 | 21.16 | 21.76 | 22.23 | 20.67          | 21.28 | 21.16 | 21.76 | 22.23 |
| 8H              | 4H   | 19.84            | 20.52 | 20.31 | 20.97 | 21.44 | 19.84          | 20.52 | 20.31 | 20.97 | 21.44 |
|                 | 6H   | 20.70            | 21.26 | 21.20 | 21.75 | 22.23 | 20.70          | 21.26 | 21.20 | 21.75 | 22.23 |
|                 | 8H   | 21.04            | 21.54 | 21.55 | 22.05 | 22.54 | 21.04          | 21.54 | 21.55 | 22.05 | 22.54 |
|                 | 12H  | 21.31            | 21.75 | 21.83 | 22.25 | 22.82 | 21.31          | 21.75 | 21.83 | 22.25 | 22.82 |
| 12H             | 4H   | 19.87            | 20.48 | 20.35 | 20.96 | 21.43 | 19.87          | 20.48 | 20.35 | 20.96 | 21.43 |
|                 | 6H   | 20.76            | 21.26 | 21.28 | 21.78 | 22.27 | 20.76          | 21.26 | 21.28 | 21.78 | 22.27 |
|                 | 8H   | 21.16            | 21.60 | 21.68 | 22.10 | 22.67 | 21.16          | 21.60 | 21.68 | 22.10 | 22.67 |