

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: P979442

Luminaire Tested: PRLX-240-935-LL3-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-935-LL3-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

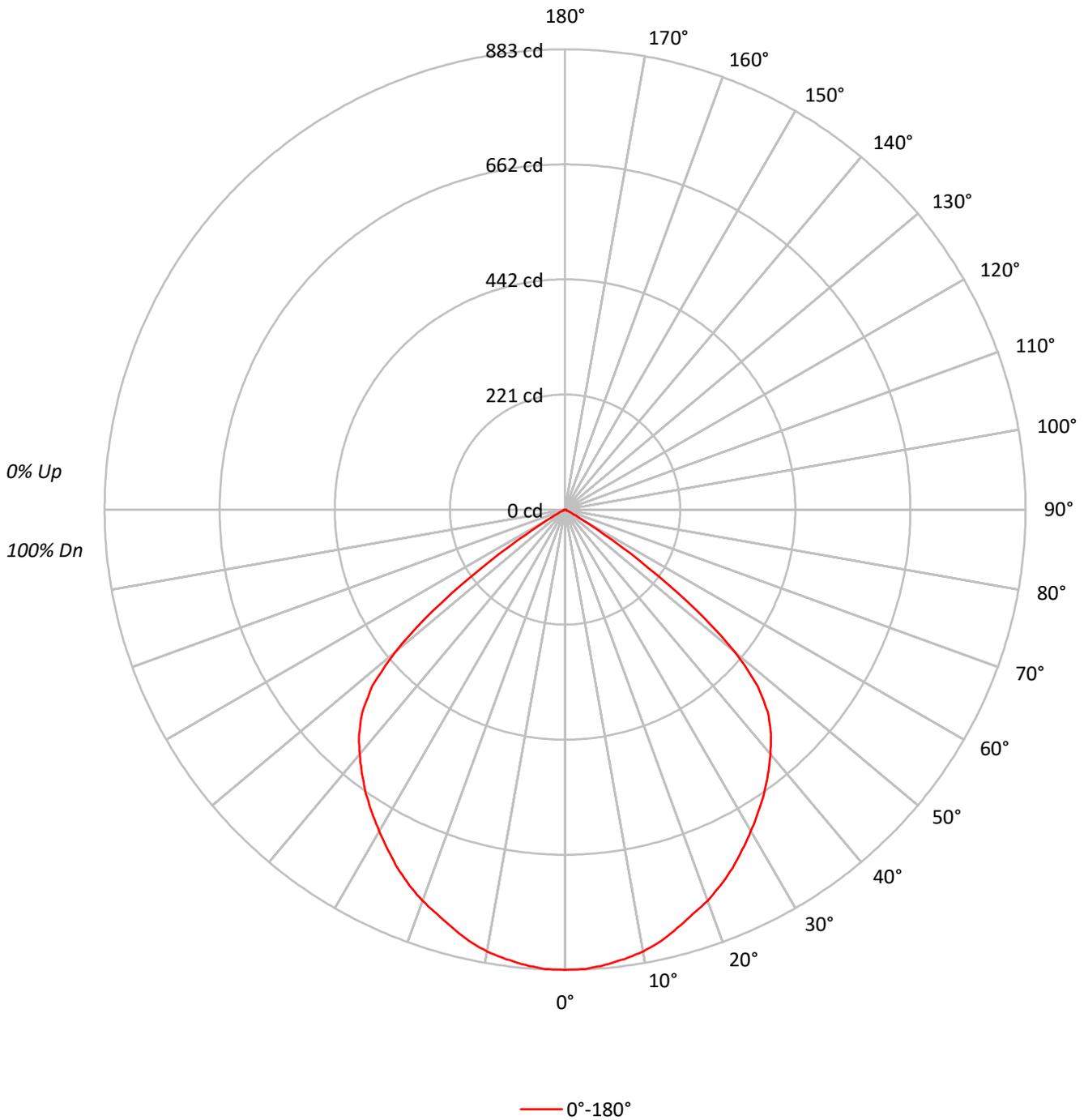
Lumens per Lamp: N/A  
Luminaire Lumens: 1690.2 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
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: P979442  
CATALOG NUMBER: PRLX-240-935-LL3-F-U-S-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P979442

CATALOG NUMBER: PRLX-240-935-LL3-F-U-S-BLAK-X

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |   |     |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|---|-----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF  | 20  |     |     |     |     |     |     |     |     | 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  | 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 |    |    |    |    |    |    |    |    |    |    |    |   | 100 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 112 | 109 | 106 | 103 | 110 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  |    |    |    |    |    |    |    |    |    |    |    |   | 90  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 105 | 98  | 93  | 89  | 102 | 97  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 81  |    |    |    |    |    |    |    |    |    |    |    |   | 81  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 76  | 73  | 72  |    |    |    |    |    |    |    |    |    |    |    |   | 72  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 64  |    |    |    |    |    |    |    |    |    |    |    |   | 64  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 84  | 73  | 66  | 61  | 82  | 72  | 65  | 60  | 70  | 64  | 60  | 69  | 63  | 59  | 67  | 62  | 59  | 57  |    |    |    |    |    |    |    |    |    |    |    |   | 57  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    |    |    |    |    |    |    |    |   | 51  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 73  | 61  | 54  | 48  | 71  | 61  | 53  | 48  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 51  | 47  | 46  |    |    |    |    |    |    |    |    |    |    |    |   | 46  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |    |    |    |    |    |    |    |    |   | 41  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |    |    |    |    |    |    |    |    |    |   | 37  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    |    |    |    |    |    |    |    |   | 34  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 8892 |
| 5°  | 8866 |
| 10° | 8802 |
| 15° | 8665 |
| 20° | 8557 |
| 25° | 8437 |
| 30° | 8286 |
| 35° | 8178 |
| 40° | 8053 |
| 45° | 7828 |
| 50° | 6673 |
| 55° | 3407 |
| 60° | 552  |
| 65° | 71   |
| 70° | 65   |
| 75° | 86   |
| 80° | 87   |
| 85° | 81   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7828 cd/sqm

TEST NUMBER: P979442

CATALOG NUMBER: PRLX-240-935-LL3-F-U-S-BLAK-X

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.2   | 4.9       |
| 10°-20°   | 234.6  | 13.9      |
| 20°-30°   | 349.5  | 20.7      |
| 30°-40°   | 416.0  | 24.6      |
| 40°-50°   | 415.2  | 24.6      |
| 50°-60°   | 182.1  | 10.8      |
| 60°-70°   | 6.3    | 0.4       |
| 70°-80°   | 2.2    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 667.3  | 39.5      |
| 0°-40°    | 1083.3 | 64.1      |
| 0°-60°    | 1680.6 | 99.4      |
| 0°-90°    | 1690.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1690.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 883 |      |
| 5°  | 877 | 83   |
| 15° | 831 | 235  |
| 25° | 759 | 350  |
| 35° | 665 | 416  |
| 45° | 550 | 415  |
| 55° | 194 | 182  |
| 65° | 3   | 6    |
| 75° | 2   | 2    |
| 85° | 1   | 1    |
| 90° | 0   |      |



TEST NUMBER: P979442

CATALOG NUMBER: PRLX-240-935-LL3-F-U-S-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 883.1 |
| 2.5°  | 882.4 |
| 5°    | 877.2 |
| 7.5°  | 869.8 |
| 10°   | 860.9 |
| 12.5° | 848.3 |
| 15°   | 831.2 |
| 17.5° | 814.2 |
| 20°   | 798.6 |
| 22.5° | 780.1 |
| 25°   | 759.4 |
| 27.5° | 735.7 |
| 30°   | 712.7 |
| 32.5° | 689.0 |
| 35°   | 665.3 |
| 37.5° | 639.4 |
| 40°   | 612.7 |
| 42.5° | 584.5 |
| 45°   | 549.7 |
| 47.5° | 500.8 |
| 50°   | 426.0 |
| 52.5° | 320.0 |
| 55°   | 194.1 |
| 57.5° | 87.4  |
| 60°   | 27.4  |
| 62.5° | 5.9   |
| 65°   | 3.0   |
| 67.5° | 2.2   |
| 70°   | 2.2   |
| 72.5° | 2.2   |
| 75°   | 2.2   |
| 77.5° | 2.2   |
| 80°   | 1.5   |
| 82.5° | 1.5   |
| 85°   | 0.7   |
| 87.5° | 0.7   |
| 90°   | 0.0   |

TEST NUMBER: P979442  
 CATALOG NUMBER: PRLX-240-935-LL3-F-U-S-BLAK-X

**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 | 9.89             | 11.24 | 10.26 | 11.55 | 11.87 | 9.89           | 11.24 | 10.26 | 11.55 | 11.87 |
|                 | 3H   | 9.77             | 10.95 | 10.15 | 11.28 | 11.64 | 9.77           | 10.95 | 10.15 | 11.28 | 11.64 |
|                 | 4H   | 9.71             | 10.80 | 10.11 | 11.15 | 11.53 | 9.71           | 10.80 | 10.11 | 11.15 | 11.53 |
|                 | 6H   | 9.64             | 10.64 | 10.05 | 11.01 | 11.40 | 9.64           | 10.64 | 10.05 | 11.01 | 11.40 |
|                 | 8H   | 9.60             | 10.54 | 10.03 | 10.93 | 11.34 | 9.60           | 10.54 | 10.03 | 10.93 | 11.34 |
|                 | 12H  | 9.56             | 10.46 | 9.99  | 10.84 | 11.27 | 9.56           | 10.46 | 9.99  | 10.84 | 11.27 |
| 4H              | 2H   | 9.70             | 10.79 | 10.10 | 11.14 | 11.52 | 9.70           | 10.79 | 10.10 | 11.14 | 11.52 |
|                 | 3H   | 9.58             | 10.45 | 9.99  | 10.86 | 11.26 | 9.58           | 10.45 | 9.99  | 10.86 | 11.26 |
|                 | 4H   | 9.50             | 10.27 | 9.93  | 10.69 | 11.14 | 9.50           | 10.27 | 9.93  | 10.69 | 11.14 |
|                 | 6H   | 9.43             | 10.10 | 9.89  | 10.54 | 11.01 | 9.43           | 10.10 | 9.89  | 10.54 | 11.01 |
|                 | 8H   | 9.38             | 10.00 | 9.85  | 10.45 | 10.92 | 9.38           | 10.00 | 9.85  | 10.45 | 10.92 |
|                 | 12H  | 9.33             | 9.89  | 9.82  | 10.37 | 10.84 | 9.33           | 9.89  | 9.82  | 10.37 | 10.84 |
| 8H              | 4H   | 9.36             | 9.99  | 9.83  | 10.43 | 10.90 | 9.36           | 9.99  | 9.83  | 10.43 | 10.90 |
|                 | 6H   | 9.27             | 9.78  | 9.77  | 10.28 | 10.76 | 9.27           | 9.78  | 9.77  | 10.28 | 10.76 |
|                 | 8H   | 9.21             | 9.68  | 9.73  | 10.20 | 10.69 | 9.21           | 9.68  | 9.73  | 10.20 | 10.69 |
|                 | 12H  | 9.17             | 9.59  | 9.68  | 10.08 | 10.66 | 9.17           | 9.59  | 9.68  | 10.08 | 10.66 |
| 12H             | 4H   | 9.31             | 9.86  | 9.80  | 10.35 | 10.82 | 9.31           | 9.86  | 9.80  | 10.35 | 10.82 |
|                 | 6H   | 9.20             | 9.67  | 9.72  | 10.19 | 10.68 | 9.20           | 9.67  | 9.72  | 10.19 | 10.68 |
|                 | 8H   | 9.16             | 9.59  | 9.68  | 10.08 | 10.65 | 9.16           | 9.59  | 9.68  | 10.08 | 10.65 |