

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: P979472

Luminaire Tested: PRLX-240-935-LL6-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979472  
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-LL6-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: -

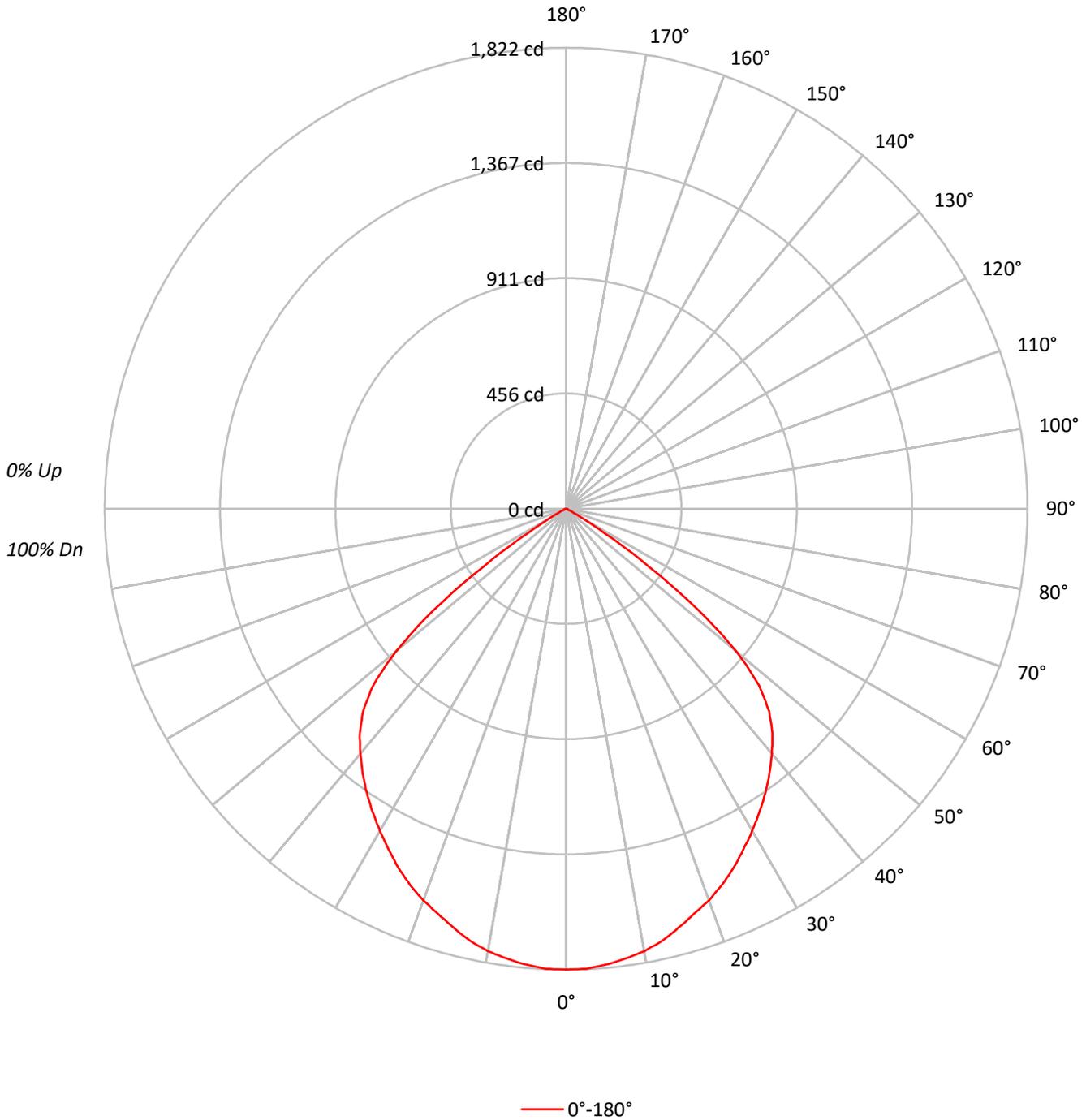
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3487.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 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): 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  | 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   | 112 | 109 | 106 | 103 | 110 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  |
| 2   | 105 | 98  | 93  | 89  | 102 | 97  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 81  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 76  | 73  | 72  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 64  |
| 5   | 84  | 73  | 66  | 61  | 82  | 72  | 65  | 60  | 70  | 64  | 60  | 69  | 63  | 59  | 67  | 62  | 59  | 57  |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |
| 7   | 73  | 61  | 54  | 48  | 71  | 61  | 53  | 48  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 51  | 47  | 46  |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 18345 |
| 5°  | 18291 |
| 10° | 18158 |
| 15° | 17876 |
| 20° | 17655 |
| 25° | 17405 |
| 30° | 17096 |
| 35° | 16871 |
| 40° | 16614 |
| 45° | 16149 |
| 50° | 13766 |
| 55° | 7029  |
| 60° | 1140  |
| 65° | 145   |
| 70° | 135   |
| 75° | 179   |
| 80° | 180   |
| 85° | 173   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16149 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.7  | 4.9       |
| 10°-20°   | 484.0  | 13.9      |
| 20°-30°   | 721.1  | 20.7      |
| 30°-40°   | 858.1  | 24.6      |
| 40°-50°   | 856.6  | 24.6      |
| 50°-60°   | 375.7  | 10.8      |
| 60°-70°   | 13.0   | 0.4       |
| 70°-80°   | 4.7    | 0.1       |
| 80°-90°   | 2.1    | 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°    | 1376.7 | 39.5      |
| 0°-40°    | 2234.9 | 64.1      |
| 0°-60°    | 3467.2 | 99.4      |
| 0°-90°    | 3487.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3487.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1822 |      |
| 5°  | 1810 | 172  |
| 15° | 1715 | 484  |
| 25° | 1567 | 721  |
| 35° | 1372 | 858  |
| 45° | 1134 | 857  |
| 55° | 400  | 376  |
| 65° | 6    | 13   |
| 75° | 5    | 5    |
| 85° | 2    | 2    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1821.9 |
| 2.5°  | 1820.4 |
| 5°    | 1809.7 |
| 7.5°  | 1794.4 |
| 10°   | 1776.0 |
| 12.5° | 1750.1 |
| 15°   | 1714.9 |
| 17.5° | 1679.7 |
| 20°   | 1647.7 |
| 22.5° | 1609.4 |
| 25°   | 1566.6 |
| 27.5° | 1517.7 |
| 30°   | 1470.4 |
| 32.5° | 1421.4 |
| 35°   | 1372.5 |
| 37.5° | 1319.0 |
| 40°   | 1264.0 |
| 42.5° | 1205.9 |
| 45°   | 1134.1 |
| 47.5° | 1033.2 |
| 50°   | 878.8  |
| 52.5° | 660.3  |
| 55°   | 400.4  |
| 57.5° | 180.4  |
| 60°   | 56.6   |
| 62.5° | 12.2   |
| 65°   | 6.1    |
| 67.5° | 4.6    |
| 70°   | 4.6    |
| 72.5° | 4.6    |
| 75°   | 4.6    |
| 77.5° | 4.6    |
| 80°   | 3.1    |
| 82.5° | 3.1    |
| 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 | 12.41            | 13.76 | 12.78 | 14.07 | 14.39 | 12.41          | 13.76 | 12.78 | 14.07 | 14.39 |
|                 | 3H   | 12.29            | 13.47 | 12.67 | 13.80 | 14.16 | 12.29          | 13.47 | 12.67 | 13.80 | 14.16 |
|                 | 4H   | 12.23            | 13.32 | 12.63 | 13.67 | 14.05 | 12.23          | 13.32 | 12.63 | 13.67 | 14.05 |
|                 | 6H   | 12.16            | 13.16 | 12.57 | 13.53 | 13.92 | 12.16          | 13.16 | 12.57 | 13.53 | 13.92 |
|                 | 8H   | 12.12            | 13.06 | 12.55 | 13.45 | 13.86 | 12.12          | 13.06 | 12.55 | 13.45 | 13.86 |
|                 | 12H  | 12.08            | 12.98 | 12.51 | 13.36 | 13.79 | 12.08          | 12.98 | 12.51 | 13.36 | 13.79 |
| 4H              | 2H   | 12.22            | 13.31 | 12.62 | 13.66 | 14.04 | 12.22          | 13.31 | 12.62 | 13.66 | 14.04 |
|                 | 3H   | 12.10            | 12.97 | 12.51 | 13.38 | 13.78 | 12.10          | 12.97 | 12.51 | 13.38 | 13.78 |
|                 | 4H   | 12.02            | 12.79 | 12.45 | 13.21 | 13.66 | 12.02          | 12.79 | 12.45 | 13.21 | 13.66 |
|                 | 6H   | 11.95            | 12.62 | 12.41 | 13.06 | 13.53 | 11.95          | 12.62 | 12.41 | 13.06 | 13.53 |
|                 | 8H   | 11.90            | 12.52 | 12.37 | 12.97 | 13.44 | 11.90          | 12.52 | 12.37 | 12.97 | 13.44 |
|                 | 12H  | 11.85            | 12.41 | 12.34 | 12.89 | 13.36 | 11.85          | 12.41 | 12.34 | 12.89 | 13.36 |
| 8H              | 4H   | 11.88            | 12.51 | 12.35 | 12.95 | 13.42 | 11.88          | 12.51 | 12.35 | 12.95 | 13.42 |
|                 | 6H   | 11.79            | 12.30 | 12.29 | 12.80 | 13.28 | 11.79          | 12.30 | 12.29 | 12.80 | 13.28 |
|                 | 8H   | 11.73            | 12.20 | 12.25 | 12.72 | 13.21 | 11.73          | 12.20 | 12.25 | 12.72 | 13.21 |
|                 | 12H  | 11.69            | 12.11 | 12.20 | 12.61 | 13.18 | 11.69          | 12.11 | 12.20 | 12.61 | 13.18 |
| 12H             | 4H   | 11.83            | 12.38 | 12.32 | 12.87 | 13.34 | 11.83          | 12.38 | 12.32 | 12.87 | 13.34 |
|                 | 6H   | 11.72            | 12.19 | 12.24 | 12.71 | 13.20 | 11.72          | 12.19 | 12.24 | 12.71 | 13.20 |
|                 | 8H   | 11.68            | 12.11 | 12.20 | 12.60 | 13.17 | 11.68          | 12.11 | 12.20 | 12.60 | 13.17 |