

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: P979331

Luminaire Tested: PRLX-240-927-LL8-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL8-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

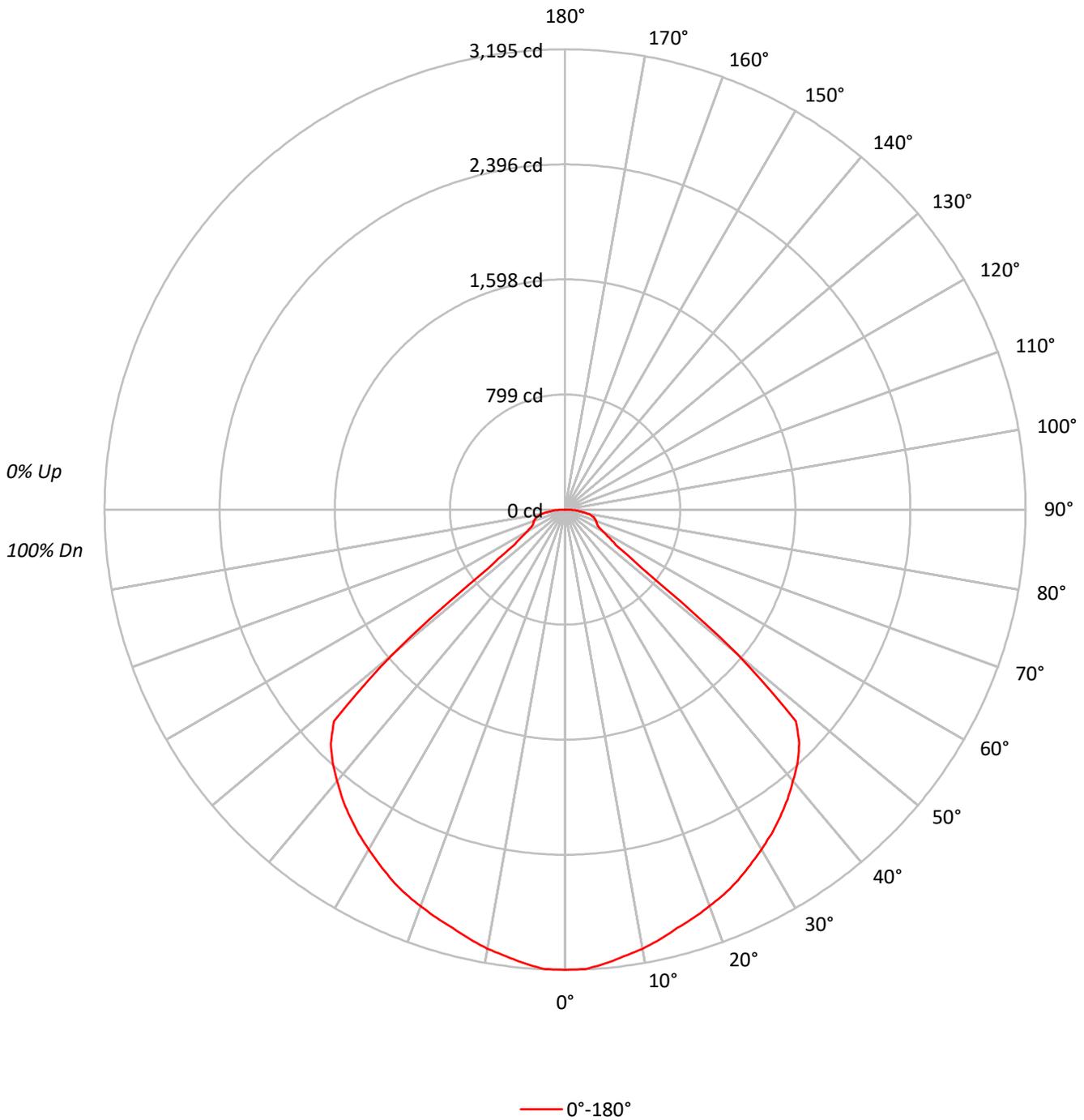
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6876.3 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.5  
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  | 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   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 88  |    |    |    | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    | 77  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |    | 68  |
| 4   | 88  | 78  | 70  | 64  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 62  | 60  |    |    |    | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  |    |    |    | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    | 38  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 36  | 46  | 40  | 36  | 35  |    |    |    | 35  |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 32  |    |    |    | 32  |

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

|     | 0°    |
|-----|-------|
| 0°  | 32171 |
| 5°  | 31989 |
| 10° | 31654 |
| 15° | 31351 |
| 20° | 31394 |
| 25° | 31544 |
| 30° | 31684 |
| 35° | 31986 |
| 40° | 32333 |
| 45° | 32726 |
| 50° | 24451 |
| 55° | 7606  |
| 60° | 6078  |
| 65° | 5856  |
| 70° | 6727  |
| 75° | 7967  |
| 80° | 9127  |
| 85° | 8965  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32726 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 299.8  | 4.4       |
| 10°-20°   | 851.3  | 12.4      |
| 20°-30°   | 1309.0 | 19.0      |
| 30°-40°   | 1629.6 | 23.7      |
| 40°-50°   | 1709.6 | 24.9      |
| 50°-60°   | 528.5  | 7.7       |
| 60°-70°   | 250.5  | 3.6       |
| 70°-80°   | 211.5  | 3.1       |
| 80°-90°   | 86.5   | 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°    | 2460.1 | 35.8      |
| 0°-40°    | 4089.7 | 59.5      |
| 0°-60°    | 6327.8 | 92.0      |
| 0°-90°    | 6876.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6876.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3195 |      |
| 5°  | 3165 | 300  |
| 15° | 3008 | 851  |
| 25° | 2839 | 1309 |
| 35° | 2602 | 1630 |
| 45° | 2298 | 1710 |
| 55° | 433  | 528  |
| 65° | 246  | 251  |
| 75° | 205  | 212  |
| 85° | 78   | 87   |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3195.1 |
| 2.5°  | 3192.9 |
| 5°    | 3164.9 |
| 7.5°  | 3128.2 |
| 10°   | 3095.9 |
| 12.5° | 3054.9 |
| 15°   | 3007.5 |
| 17.5° | 2970.9 |
| 20°   | 2929.9 |
| 22.5° | 2888.9 |
| 25°   | 2839.3 |
| 27.5° | 2781.1 |
| 30°   | 2725.1 |
| 32.5° | 2666.9 |
| 35°   | 2602.2 |
| 37.5° | 2535.4 |
| 40°   | 2459.9 |
| 42.5° | 2386.6 |
| 45°   | 2298.2 |
| 47.5° | 2173.2 |
| 50°   | 1560.9 |
| 52.5° | 670.5  |
| 55°   | 433.3  |
| 57.5° | 360.0  |
| 60°   | 301.8  |
| 62.5° | 263.0  |
| 65°   | 245.8  |
| 67.5° | 237.2  |
| 70°   | 228.5  |
| 72.5° | 217.7  |
| 75°   | 204.8  |
| 77.5° | 185.4  |
| 80°   | 157.4  |
| 82.5° | 118.6  |
| 85°   | 77.6   |
| 87.5° | 43.1   |
| 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 | 15.04            | 16.47 | 15.41 | 16.78 | 17.09 | 15.04          | 16.47 | 15.41 | 16.78 | 17.09 |
|                 | 3H   | 17.00            | 18.27 | 17.38 | 18.60 | 18.96 | 17.00          | 18.27 | 17.38 | 18.60 | 18.96 |
|                 | 4H   | 18.16            | 19.35 | 18.56 | 19.70 | 20.08 | 18.16          | 19.35 | 18.56 | 19.70 | 20.08 |
|                 | 6H   | 19.30            | 20.38 | 19.71 | 20.75 | 21.15 | 19.30          | 20.38 | 19.71 | 20.75 | 21.15 |
|                 | 8H   | 19.72            | 20.76 | 20.15 | 21.15 | 21.55 | 19.72          | 20.76 | 20.15 | 21.15 | 21.55 |
|                 | 12H  | 20.03            | 21.02 | 20.46 | 21.40 | 21.83 | 20.03          | 21.02 | 20.46 | 21.40 | 21.83 |
| 4H              | 2H   | 15.55            | 16.73 | 15.95 | 17.08 | 17.46 | 15.55          | 16.73 | 15.95 | 17.08 | 17.46 |
|                 | 3H   | 17.92            | 18.89 | 18.33 | 19.29 | 19.69 | 17.92          | 18.89 | 18.33 | 19.29 | 19.69 |
|                 | 4H   | 19.30            | 20.16 | 19.73 | 20.58 | 21.02 | 19.30          | 20.16 | 19.73 | 20.58 | 21.02 |
|                 | 6H   | 20.62            | 21.38 | 21.08 | 21.82 | 22.28 | 20.62          | 21.38 | 21.08 | 21.82 | 22.28 |
|                 | 8H   | 21.12            | 21.82 | 21.58 | 22.27 | 22.74 | 21.12          | 21.82 | 21.58 | 22.27 | 22.74 |
|                 | 12H  | 21.49            | 22.12 | 21.97 | 22.60 | 23.07 | 21.49          | 22.12 | 21.97 | 22.60 | 23.07 |
| 8H              | 4H   | 19.83            | 20.54 | 20.30 | 20.98 | 21.45 | 19.83          | 20.54 | 20.30 | 20.98 | 21.45 |
|                 | 6H   | 21.33            | 21.92 | 21.83 | 22.41 | 22.89 | 21.33          | 21.92 | 21.83 | 22.41 | 22.89 |
|                 | 8H   | 21.94            | 22.47 | 22.45 | 22.98 | 23.47 | 21.94          | 22.47 | 22.45 | 22.98 | 23.47 |
|                 | 12H  | 22.42            | 22.90 | 22.93 | 23.39 | 23.96 | 22.42          | 22.90 | 22.93 | 23.39 | 23.96 |
| 12H             | 4H   | 19.92            | 20.55 | 20.41 | 21.03 | 21.51 | 19.92          | 20.55 | 20.41 | 21.03 | 21.51 |
|                 | 6H   | 21.47            | 22.00 | 21.99 | 22.52 | 23.01 | 21.47          | 22.00 | 21.99 | 22.52 | 23.01 |
|                 | 8H   | 22.15            | 22.63 | 22.67 | 23.12 | 23.69 | 22.15          | 22.63 | 22.67 | 23.12 | 23.69 |