

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: P865425

Luminaire Tested: PRLX-2001-S-927-10L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-10L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

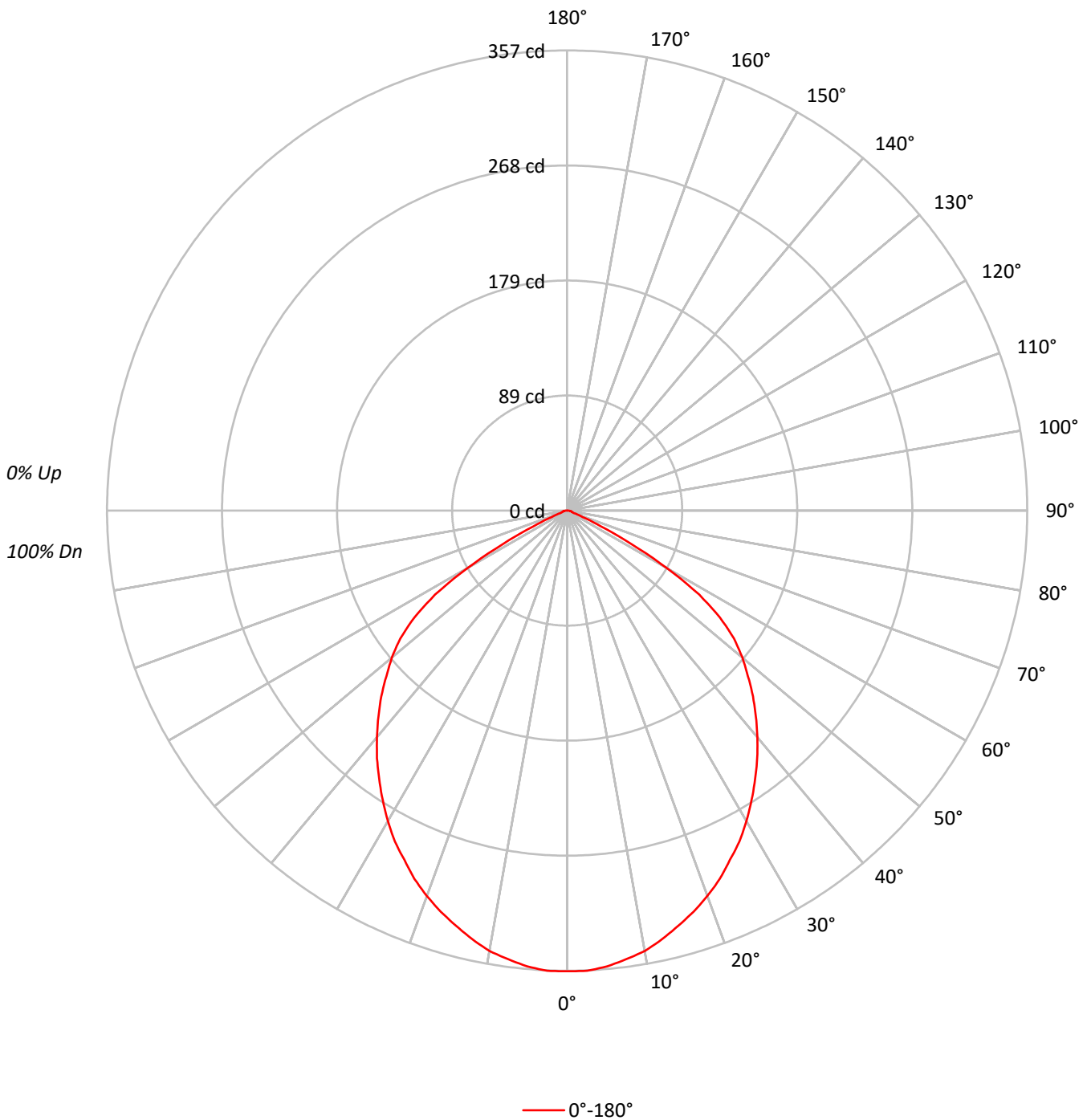
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 748.8 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 68  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |
| 6   | 75  | 63  | 55  | 50  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 46  |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 34  |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 5829 |
| 5°  | 5812 |
| 10° | 5747 |
| 15° | 5630 |
| 20° | 5523 |
| 25° | 5381 |
| 30° | 5239 |
| 35° | 5063 |
| 40° | 4886 |
| 45° | 4703 |
| 50° | 4504 |
| 55° | 4115 |
| 60° | 2923 |
| 65° | 1111 |
| 70° | 267  |
| 75° | 252  |
| 80° | 301  |
| 85° | 449  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4703 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.6   | 4.5       |
| 10°-20°   | 94.0   | 12.6      |
| 20°-30°   | 137.9  | 18.4      |
| 30°-40°   | 159.1  | 21.2      |
| 40°-50°   | 157.1  | 21.0      |
| 50°-60°   | 125.5  | 16.8      |
| 60°-70°   | 35.5   | 4.7       |
| 70°-80°   | 4.1    | 0.5       |
| 80°-90°   | 2.0    | 0.3       |
| 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°    | 265.5  | 35.5      |
| 0°-40°    | 424.6  | 56.7      |
| 0°-60°    | 707.2  | 94.4      |
| 0°-90°    | 748.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 748.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 357 |      |
| 5°  | 355 | 34   |
| 15° | 333 | 94   |
| 25° | 299 | 138  |
| 35° | 254 | 159  |
| 45° | 204 | 157  |
| 55° | 145 | 126  |
| 65° | 29  | 35   |
| 75° | 4   | 4    |
| 85° | 2   | 2    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 357.4 |
| 2.5°  | 357.4 |
| 5°    | 355.0 |
| 7.5°  | 351.0 |
| 10°   | 347.0 |
| 12.5° | 340.6 |
| 15°   | 333.4 |
| 17.5° | 326.2 |
| 20°   | 318.2 |
| 22.5° | 309.4 |
| 25°   | 299.0 |
| 27.5° | 289.4 |
| 30°   | 278.2 |
| 32.5° | 266.3 |
| 35°   | 254.3 |
| 37.5° | 242.3 |
| 40°   | 229.5 |
| 42.5° | 216.7 |
| 45°   | 203.9 |
| 47.5° | 190.3 |
| 50°   | 177.5 |
| 52.5° | 163.1 |
| 55°   | 144.7 |
| 57.5° | 121.5 |
| 60°   | 89.6  |
| 62.5° | 56.0  |
| 65°   | 28.8  |
| 67.5° | 12.8  |
| 70°   | 5.6   |
| 72.5° | 4.0   |
| 75°   | 4.0   |
| 77.5° | 3.2   |
| 80°   | 3.2   |
| 82.5° | 2.4   |
| 85°   | 2.4   |
| 87.5° | 0.8   |
| 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 | 16.78            | 18.24 | 17.14 | 18.55 | 18.86 | 16.78          | 18.24 | 17.14 | 18.55 | 18.86 |
|                 | 3H   | 16.70            | 17.99 | 17.08 | 18.32 | 18.68 | 16.70          | 17.99 | 17.08 | 18.32 | 18.68 |
|                 | 4H   | 16.65            | 17.84 | 17.05 | 18.19 | 18.57 | 16.65          | 17.84 | 17.05 | 18.19 | 18.57 |
|                 | 6H   | 16.59            | 17.69 | 17.00 | 18.06 | 18.45 | 16.59          | 17.69 | 17.00 | 18.06 | 18.45 |
|                 | 8H   | 16.56            | 17.60 | 16.98 | 17.99 | 18.39 | 16.56          | 17.60 | 16.98 | 17.99 | 18.39 |
|                 | 12H  | 16.53            | 17.53 | 16.96 | 17.91 | 18.34 | 16.53          | 17.53 | 16.96 | 17.91 | 18.34 |
| 4H              | 2H   | 16.71            | 17.90 | 17.11 | 18.25 | 18.63 | 16.71          | 17.90 | 17.11 | 18.25 | 18.63 |
|                 | 3H   | 16.64            | 17.61 | 17.05 | 18.01 | 18.41 | 16.64          | 17.61 | 17.05 | 18.01 | 18.41 |
|                 | 4H   | 16.58            | 17.44 | 17.01 | 17.86 | 18.30 | 16.58          | 17.44 | 17.01 | 17.86 | 18.30 |
|                 | 6H   | 16.53            | 17.27 | 16.99 | 17.71 | 18.18 | 16.53          | 17.27 | 16.99 | 17.71 | 18.18 |
|                 | 8H   | 16.49            | 17.18 | 16.95 | 17.63 | 18.10 | 16.49          | 17.18 | 16.95 | 17.63 | 18.10 |
|                 | 12H  | 16.46            | 17.08 | 16.95 | 17.56 | 18.03 | 16.46          | 17.08 | 16.95 | 17.56 | 18.03 |
| 8H              | 4H   | 16.46            | 17.16 | 16.93 | 17.60 | 18.07 | 16.46          | 17.16 | 16.93 | 17.60 | 18.07 |
|                 | 6H   | 16.40            | 16.97 | 16.90 | 17.46 | 17.94 | 16.40          | 16.97 | 16.90 | 17.46 | 17.94 |
|                 | 8H   | 16.35            | 16.87 | 16.87 | 17.38 | 17.87 | 16.35          | 16.87 | 16.87 | 17.38 | 17.87 |
|                 | 12H  | 16.34            | 16.80 | 16.85 | 17.29 | 17.86 | 16.34          | 16.80 | 16.85 | 17.29 | 17.86 |
| 12H             | 4H   | 16.42            | 17.04 | 16.91 | 17.52 | 18.00 | 16.42          | 17.04 | 16.91 | 17.52 | 18.00 |
|                 | 6H   | 16.34            | 16.86 | 16.86 | 17.37 | 17.86 | 16.34          | 16.86 | 16.86 | 17.37 | 17.86 |
|                 | 8H   | 16.32            | 16.78 | 16.83 | 17.27 | 17.84 | 16.32          | 16.78 | 16.83 | 17.27 | 17.84 |