

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: P865970

Luminaire Tested: PRLX-2001-M-930-15L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-15L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

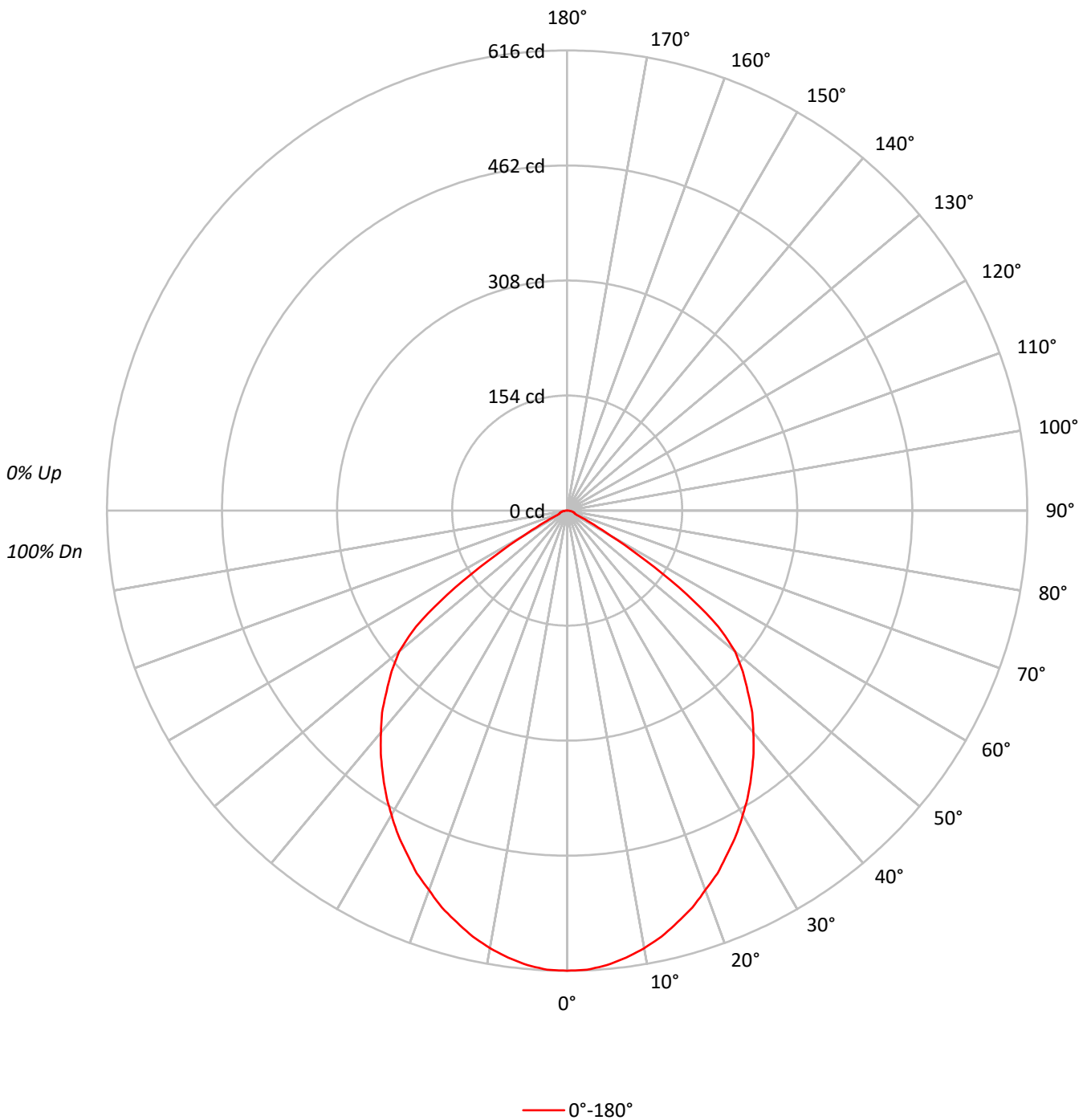
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1190.1 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 91  | 86  | 92  | 88  | 84  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 73  | 78  | 75  | 71  | 70  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 61  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 55  |
| 6   | 77  | 65  | 57  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 49  |
| 7   | 72  | 60  | 52  | 46  | 70  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 44  |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |
| 9   | 63  | 50  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 37  | 36  |
| 10  | 59  | 47  | 39  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 34  | 44  | 39  | 34  | 44  | 38  | 34  | 33  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 5227 |
| 5°  | 5203 |
| 10° | 5125 |
| 15° | 5012 |
| 20° | 4882 |
| 25° | 4748 |
| 30° | 4609 |
| 35° | 4460 |
| 40° | 4296 |
| 45° | 4103 |
| 50° | 3871 |
| 55° | 2898 |
| 60° | 1144 |
| 65° | 313  |
| 70° | 268  |
| 75° | 289  |
| 80° | 313  |
| 85° | 312  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4103 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.8   | 4.9       |
| 10°-20°   | 160.8  | 13.5      |
| 20°-30°   | 233.7  | 19.6      |
| 30°-40°   | 269.2  | 22.6      |
| 40°-50°   | 263.8  | 22.2      |
| 50°-60°   | 167.6  | 14.1      |
| 60°-70°   | 24.4   | 2.1       |
| 70°-80°   | 9.2    | 0.8       |
| 80°-90°   | 3.5    | 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°    | 452.3  | 38.0      |
| 0°-40°    | 721.5  | 60.6      |
| 0°-60°    | 1152.9 | 96.9      |
| 0°-90°    | 1190.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1190.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 616 |      |
| 5°  | 611 | 58   |
| 15° | 570 | 161  |
| 25° | 507 | 234  |
| 35° | 430 | 269  |
| 45° | 342 | 264  |
| 55° | 196 | 168  |
| 65° | 16  | 24   |
| 75° | 9   | 9    |
| 85° | 3   | 3    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 616.0 |
| 2.5°  | 615.2 |
| 5°    | 610.8 |
| 7.5°  | 603.6 |
| 10°   | 594.8 |
| 12.5° | 584.1 |
| 15°   | 570.5 |
| 17.5° | 557.3 |
| 20°   | 540.6 |
| 22.5° | 525.8 |
| 25°   | 507.1 |
| 27.5° | 489.9 |
| 30°   | 470.4 |
| 32.5° | 451.2 |
| 35°   | 430.5 |
| 37.5° | 409.7 |
| 40°   | 387.8 |
| 42.5° | 366.6 |
| 45°   | 341.9 |
| 47.5° | 318.8 |
| 50°   | 293.2 |
| 52.5° | 255.3 |
| 55°   | 195.9 |
| 57.5° | 124.9 |
| 60°   | 67.4  |
| 62.5° | 33.9  |
| 65°   | 15.6  |
| 67.5° | 11.2  |
| 70°   | 10.8  |
| 72.5° | 10.0  |
| 75°   | 8.8   |
| 77.5° | 7.6   |
| 80°   | 6.4   |
| 82.5° | 4.8   |
| 85°   | 3.2   |
| 87.5° | 1.6   |
| 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 | 13.05            | 14.46 | 13.42 | 14.77 | 15.08 | 13.05          | 14.46 | 13.42 | 14.77 | 15.08 |
|                 | 3H   | 12.99            | 14.22 | 13.36 | 14.55 | 14.91 | 12.99          | 14.22 | 13.36 | 14.55 | 14.91 |
|                 | 4H   | 12.96            | 14.11 | 13.36 | 14.46 | 14.84 | 12.96          | 14.11 | 13.36 | 14.46 | 14.84 |
|                 | 6H   | 12.94            | 13.99 | 13.35 | 14.36 | 14.75 | 12.94          | 13.99 | 13.35 | 14.36 | 14.75 |
|                 | 8H   | 12.92            | 13.92 | 13.35 | 14.31 | 14.71 | 12.92          | 13.92 | 13.35 | 14.31 | 14.71 |
|                 | 12H  | 12.91            | 13.86 | 13.34 | 14.24 | 14.67 | 12.91          | 13.86 | 13.34 | 14.24 | 14.67 |
| 4H              | 2H   | 12.90            | 14.04 | 13.30 | 14.39 | 14.77 | 12.90          | 14.04 | 13.30 | 14.39 | 14.77 |
|                 | 3H   | 12.86            | 13.78 | 13.27 | 14.18 | 14.59 | 12.86          | 13.78 | 13.27 | 14.18 | 14.59 |
|                 | 4H   | 12.85            | 13.67 | 13.28 | 14.09 | 14.53 | 12.85          | 13.67 | 13.28 | 14.09 | 14.53 |
|                 | 6H   | 12.86            | 13.57 | 13.32 | 14.01 | 14.48 | 12.86          | 13.57 | 13.32 | 14.01 | 14.48 |
|                 | 8H   | 12.85            | 13.51 | 13.31 | 13.96 | 14.43 | 12.85          | 13.51 | 13.31 | 13.96 | 14.43 |
|                 | 12H  | 12.84            | 13.43 | 13.32 | 13.91 | 14.38 | 12.84          | 13.43 | 13.32 | 13.91 | 14.38 |
| 8H              | 4H   | 12.75            | 13.42 | 13.22 | 13.86 | 14.33 | 12.75          | 13.42 | 13.22 | 13.86 | 14.33 |
|                 | 6H   | 12.77            | 13.32 | 13.28 | 13.82 | 14.30 | 12.77          | 13.32 | 13.28 | 13.82 | 14.30 |
|                 | 8H   | 12.78            | 13.27 | 13.30 | 13.79 | 14.28 | 12.78          | 13.27 | 13.30 | 13.79 | 14.28 |
|                 | 12H  | 12.79            | 13.24 | 13.30 | 13.73 | 14.30 | 12.79          | 13.24 | 13.30 | 13.73 | 14.30 |
| 12H             | 4H   | 12.72            | 13.30 | 13.20 | 13.79 | 14.26 | 12.72          | 13.30 | 13.20 | 13.79 | 14.26 |
|                 | 6H   | 12.73            | 13.23 | 13.25 | 13.74 | 14.23 | 12.73          | 13.23 | 13.25 | 13.74 | 14.23 |
|                 | 8H   | 12.76            | 13.20 | 13.27 | 13.70 | 14.27 | 12.76          | 13.20 | 13.27 | 13.70 | 14.27 |