

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: P865773

Luminaire Tested: PRLX-2004-S-930-05L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-930-05L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

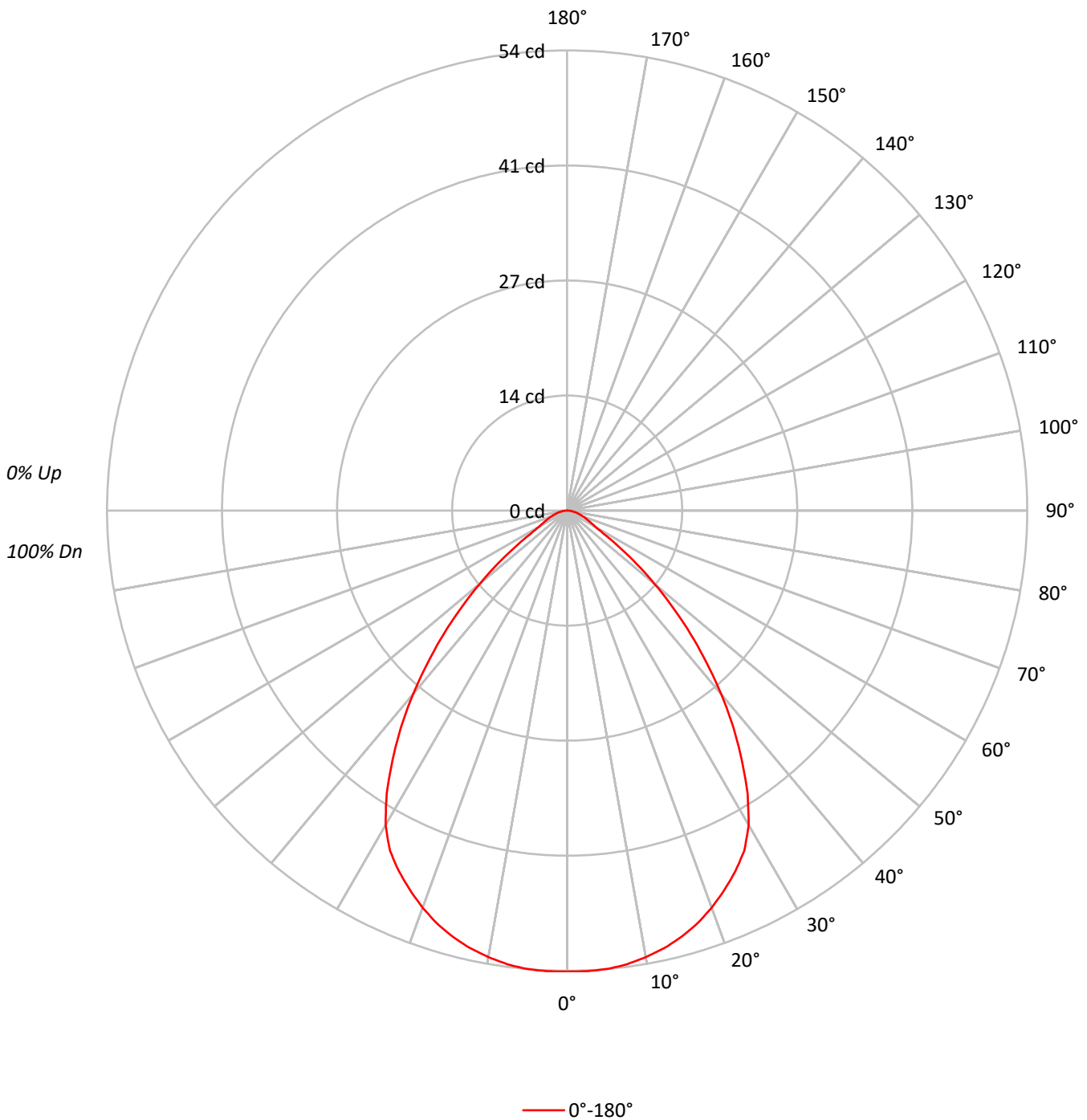
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 90.6 lumens  
Efficiency: N/A  
Efficacy: 14.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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 | 101 | 102 | 100 | 98  |  | 98  | 96  | 95  |  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  | 72  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 68  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 69  | 66  | 64  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 66  | 61  | 71  | 65  | 61  |  | 69  | 64  | 60  |  | 68  | 63  | 60  | 58  |
| 6   | 79  | 68  | 61  | 55  | 78  | 67  | 60  | 55  | 66  | 59  | 55  |  | 64  | 59  | 54  |  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  |  | 59  | 54  | 49  |  | 58  | 53  | 49  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 43  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 41  |  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     |     |
|-----|-----|
|     | 0°  |
| 0°  | 882 |
| 5°  | 884 |
| 10° | 881 |
| 15° | 875 |
| 20° | 861 |
| 25° | 840 |
| 30° | 802 |
| 35° | 711 |
| 40° | 598 |
| 45° | 473 |
| 50° | 340 |
| 55° | 210 |
| 60° | 124 |
| 65° | 104 |
| 70° | 91  |
| 75° | 82  |
| 80° | 75  |
| 85° | 75  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 473 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.1    | 5.7       |
| 10°-20°   | 14.6   | 16.1      |
| 20°-30°   | 21.4   | 23.6      |
| 30°-40°   | 22.2   | 24.5      |
| 40°-50°   | 15.8   | 17.4      |
| 50°-60°   | 7.0    | 7.7       |
| 60°-70°   | 2.7    | 3.0       |
| 70°-80°   | 1.4    | 1.6       |
| 80°-90°   | 0.4    | 0.5       |
| 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°    | 41.1   | 45.4      |
| 0°-40°    | 63.3   | 69.9      |
| 0°-60°    | 86.1   | 95.0      |
| 0°-90°    | 90.6   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 90.6   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0° | Flux |
|-----|----|------|
| 0°  | 54 |      |
| 5°  | 54 | 5    |
| 15° | 52 | 15   |
| 25° | 47 | 21   |
| 35° | 36 | 22   |
| 45° | 20 | 16   |
| 55° | 7  | 7    |
| 65° | 3  | 3    |
| 75° | 1  | 1    |
| 85° | 0  | 0    |
| 90° | 0  |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   |
|-------|------|
| 0°    | 54.1 |
| 2.5°  | 54.1 |
| 5°    | 54.0 |
| 7.5°  | 53.7 |
| 10°   | 53.2 |
| 12.5° | 52.6 |
| 15°   | 51.8 |
| 17.5° | 50.8 |
| 20°   | 49.6 |
| 22.5° | 48.2 |
| 25°   | 46.7 |
| 27.5° | 45.0 |
| 30°   | 42.6 |
| 32.5° | 39.4 |
| 35°   | 35.7 |
| 37.5° | 32.0 |
| 40°   | 28.1 |
| 42.5° | 24.2 |
| 45°   | 20.5 |
| 47.5° | 16.8 |
| 50°   | 13.4 |
| 52.5° | 10.3 |
| 55°   | 7.4  |
| 57.5° | 5.1  |
| 60°   | 3.8  |
| 62.5° | 3.2  |
| 65°   | 2.7  |
| 67.5° | 2.3  |
| 70°   | 1.9  |
| 72.5° | 1.6  |
| 75°   | 1.3  |
| 77.5° | 1.1  |
| 80°   | 0.8  |
| 82.5° | 0.6  |
| 85°   | 0.4  |
| 87.5° | 0.2  |
| 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 | 2.29             | 3.59 | 2.66 | 3.90 | 4.22 | 2.29           | 3.59 | 2.66 | 3.90 | 4.22 |
|                 | 3H   | 3.18             | 4.32 | 3.56 | 4.65 | 5.02 | 3.18           | 4.32 | 3.56 | 4.65 | 5.02 |
|                 | 4H   | 3.53             | 4.59 | 3.93 | 4.94 | 5.32 | 3.53           | 4.59 | 3.93 | 4.94 | 5.32 |
|                 | 6H   | 3.82             | 4.79 | 4.23 | 5.16 | 5.56 | 3.82           | 4.79 | 4.23 | 5.16 | 5.56 |
|                 | 8H   | 3.91             | 4.83 | 4.34 | 5.22 | 5.63 | 3.91           | 4.83 | 4.34 | 5.22 | 5.63 |
|                 | 12H  | 3.98             | 4.86 | 4.41 | 5.24 | 5.67 | 3.98           | 4.86 | 4.41 | 5.24 | 5.67 |
| 4H              | 2H   | 2.53             | 3.59 | 2.93 | 3.94 | 4.32 | 2.53           | 3.59 | 2.93 | 3.94 | 4.32 |
|                 | 3H   | 3.63             | 4.49 | 4.04 | 4.90 | 5.30 | 3.63           | 4.49 | 4.04 | 4.90 | 5.30 |
|                 | 4H   | 4.09             | 4.86 | 4.52 | 5.28 | 5.72 | 4.09           | 4.86 | 4.52 | 5.28 | 5.72 |
|                 | 6H   | 4.50             | 5.17 | 4.97 | 5.61 | 6.08 | 4.50           | 5.17 | 4.97 | 5.61 | 6.08 |
|                 | 8H   | 4.64             | 5.26 | 5.11 | 5.71 | 6.18 | 4.64           | 5.26 | 5.11 | 5.71 | 6.18 |
|                 | 12H  | 4.75             | 5.30 | 5.24 | 5.78 | 6.26 | 4.75           | 5.30 | 5.24 | 5.78 | 6.26 |
| 8H              | 4H   | 4.23             | 4.85 | 4.70 | 5.30 | 5.77 | 4.23           | 4.85 | 4.70 | 5.30 | 5.77 |
|                 | 6H   | 4.75             | 5.25 | 5.25 | 5.75 | 6.23 | 4.75           | 5.25 | 5.25 | 5.75 | 6.23 |
|                 | 8H   | 4.95             | 5.41 | 5.47 | 5.93 | 6.42 | 4.95           | 5.41 | 5.47 | 5.93 | 6.42 |
|                 | 12H  | 5.14             | 5.55 | 5.66 | 6.04 | 6.62 | 5.14           | 5.55 | 5.66 | 6.04 | 6.62 |
| 12H             | 4H   | 4.22             | 4.77 | 4.71 | 5.26 | 5.73 | 4.22           | 4.77 | 4.71 | 5.26 | 5.73 |
|                 | 6H   | 4.76             | 5.22 | 5.28 | 5.74 | 6.23 | 4.76           | 5.22 | 5.28 | 5.74 | 6.23 |
|                 | 8H   | 5.02             | 5.43 | 5.54 | 5.92 | 6.49 | 5.02           | 5.43 | 5.54 | 5.92 | 6.49 |