

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: P867401

Luminaire Tested: PRLX-2004-L-940-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-940-32L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

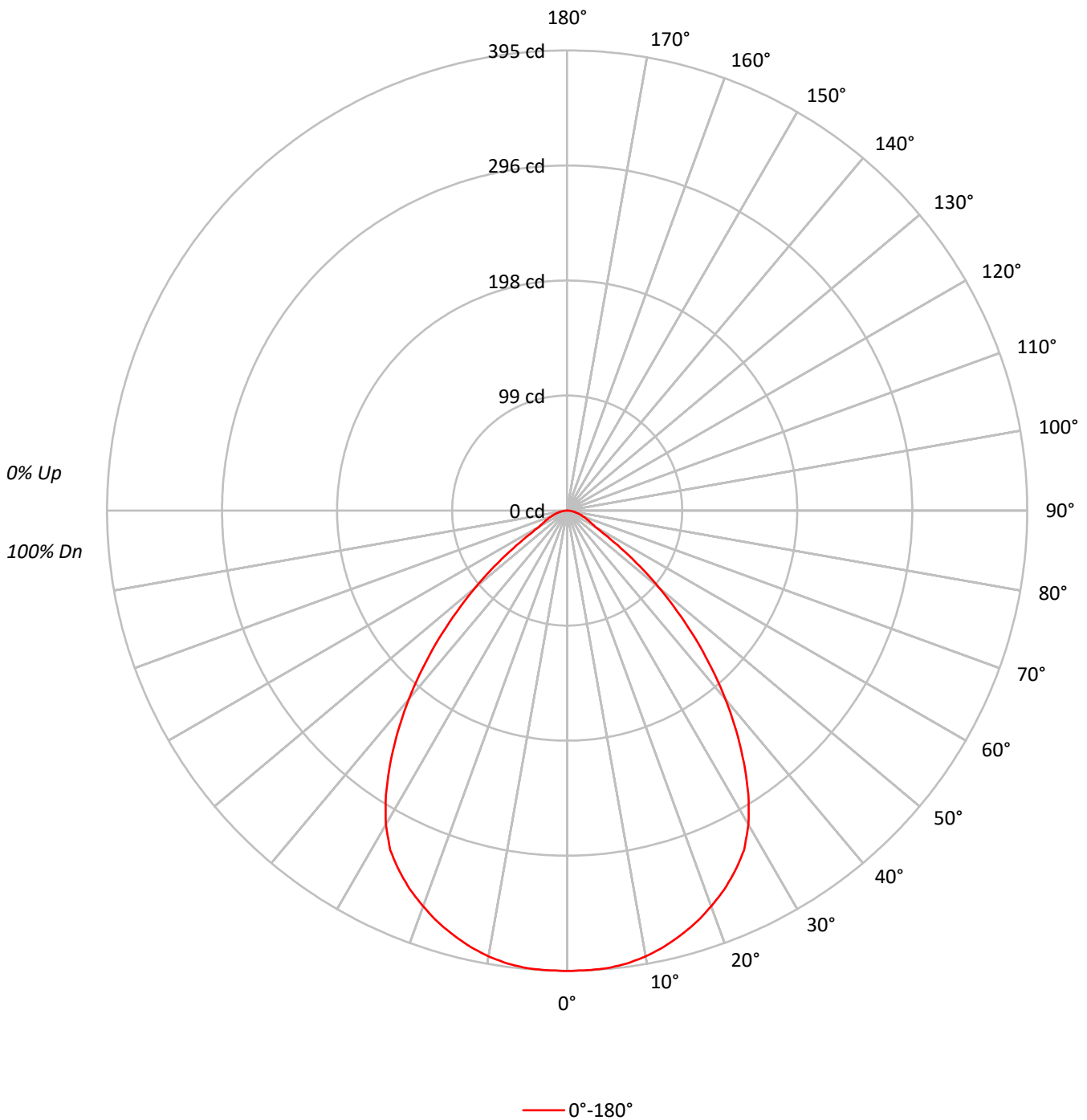
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 671.1 lumens  
Efficiency: N/A  
Efficacy: 25.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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: 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 | 97  |  | 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  | 74  |  | 80  | 76  | 73  | 71  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 73  | 68  | 78  | 72  | 67  |  | 75  | 70  | 67  |  | 73  | 69  | 66  | 64  |
| 5   | 85  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 60  |  | 69  | 64  | 60  |  | 68  | 63  | 59  | 57  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  |  | 64  | 58  | 54  |  | 62  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  |  | 59  | 53  | 49  |  | 58  | 53  | 49  | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  | 39  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 36  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 1950 |
| 5°  | 1953 |
| 10° | 1947 |
| 15° | 1927 |
| 20° | 1898 |
| 25° | 1857 |
| 30° | 1772 |
| 35° | 1594 |
| 40° | 1362 |
| 45° | 1088 |
| 50° | 790  |
| 55° | 485  |
| 60° | 273  |
| 65° | 233  |
| 70° | 206  |
| 75° | 187  |
| 80° | 170  |
| 85° | 153  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1088 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.5   | 5.6       |
| 10°-20°   | 106.3  | 15.8      |
| 20°-30°   | 156.5  | 23.3      |
| 30°-40°   | 164.3  | 24.5      |
| 40°-50°   | 119.9  | 17.9      |
| 50°-60°   | 52.8   | 7.9       |
| 60°-70°   | 20.2   | 3.0       |
| 70°-80°   | 10.5   | 1.6       |
| 80°-90°   | 3.1    | 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°    | 300.3  | 44.7      |
| 0°-40°    | 464.6  | 69.2      |
| 0°-60°    | 637.4  | 95.0      |
| 0°-90°    | 671.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 671.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 395 |      |
| 5°  | 394 | 37   |
| 15° | 377 | 106  |
| 25° | 341 | 157  |
| 35° | 265 | 164  |
| 45° | 156 | 120  |
| 55° | 56  | 53   |
| 65° | 20  | 20   |
| 75° | 10  | 10   |
| 85° | 3   | 3    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 395.2 |
| 2.5°  | 394.9 |
| 5°    | 394.3 |
| 7.5°  | 392.2 |
| 10°   | 388.6 |
| 12.5° | 383.6 |
| 15°   | 377.3 |
| 17.5° | 370.1 |
| 20°   | 361.5 |
| 22.5° | 352.2 |
| 25°   | 341.2 |
| 27.5° | 328.7 |
| 30°   | 311.1 |
| 32.5° | 289.6 |
| 35°   | 264.6 |
| 37.5° | 238.6 |
| 40°   | 211.5 |
| 42.5° | 183.7 |
| 45°   | 156.0 |
| 47.5° | 128.5 |
| 50°   | 102.9 |
| 52.5° | 78.7  |
| 55°   | 56.4  |
| 57.5° | 38.2  |
| 60°   | 27.7  |
| 62.5° | 23.6  |
| 65°   | 20.0  |
| 67.5° | 17.0  |
| 70°   | 14.3  |
| 72.5° | 11.9  |
| 75°   | 9.8   |
| 77.5° | 7.8   |
| 80°   | 6.0   |
| 82.5° | 4.5   |
| 85°   | 2.7   |
| 87.5° | 1.2   |
| 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 | 5.16             | 6.46 | 5.52 | 6.77 | 7.09 | 5.16           | 6.46 | 5.52 | 6.77 | 7.09 |
|                 | 3H   | 6.04             | 7.19 | 6.42 | 7.52 | 7.88 | 6.04           | 7.19 | 6.42 | 7.52 | 7.88 |
|                 | 4H   | 6.38             | 7.45 | 6.79 | 7.81 | 8.19 | 6.38           | 7.45 | 6.79 | 7.81 | 8.19 |
|                 | 6H   | 6.65             | 7.63 | 7.07 | 8.00 | 8.40 | 6.65           | 7.63 | 7.07 | 8.00 | 8.40 |
|                 | 8H   | 6.75             | 7.68 | 7.18 | 8.07 | 8.47 | 6.75           | 7.68 | 7.18 | 8.07 | 8.47 |
|                 | 12H  | 6.80             | 7.69 | 7.24 | 8.07 | 8.51 | 6.80           | 7.69 | 7.24 | 8.07 | 8.51 |
| 4H              | 2H   | 5.38             | 6.45 | 5.78 | 6.80 | 7.19 | 5.38           | 6.45 | 5.78 | 6.80 | 7.19 |
|                 | 3H   | 6.48             | 7.35 | 6.89 | 7.75 | 8.16 | 6.48           | 7.35 | 6.89 | 7.75 | 8.16 |
|                 | 4H   | 6.95             | 7.72 | 7.38 | 8.14 | 8.59 | 6.95           | 7.72 | 7.38 | 8.14 | 8.59 |
|                 | 6H   | 7.34             | 8.00 | 7.80 | 8.45 | 8.92 | 7.34           | 8.00 | 7.80 | 8.45 | 8.92 |
|                 | 8H   | 7.47             | 8.10 | 7.94 | 8.55 | 9.02 | 7.47           | 8.10 | 7.94 | 8.55 | 9.02 |
|                 | 12H  | 7.57             | 8.12 | 8.06 | 8.61 | 9.08 | 7.57           | 8.12 | 8.06 | 8.61 | 9.08 |
| 8H              | 4H   | 7.08             | 7.71 | 7.55 | 8.15 | 8.62 | 7.08           | 7.71 | 7.55 | 8.15 | 8.62 |
|                 | 6H   | 7.57             | 8.09 | 8.08 | 8.58 | 9.06 | 7.57           | 8.09 | 8.08 | 8.58 | 9.06 |
|                 | 8H   | 7.78             | 8.24 | 8.30 | 8.76 | 9.25 | 7.78           | 8.24 | 8.30 | 8.76 | 9.25 |
|                 | 12H  | 7.95             | 8.36 | 8.47 | 8.85 | 9.43 | 7.95           | 8.36 | 8.47 | 8.85 | 9.43 |
| 12H             | 4H   | 7.07             | 7.63 | 7.56 | 8.11 | 8.58 | 7.07           | 7.63 | 7.56 | 8.11 | 8.58 |
|                 | 6H   | 7.59             | 8.05 | 8.11 | 8.57 | 9.06 | 7.59           | 8.05 | 8.11 | 8.57 | 9.06 |
|                 | 8H   | 7.85             | 8.26 | 8.37 | 8.75 | 9.33 | 7.85           | 8.26 | 8.37 | 8.75 | 9.33 |