

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: P866761

Luminaire Tested: PRLX-2001-L-930-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-32L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

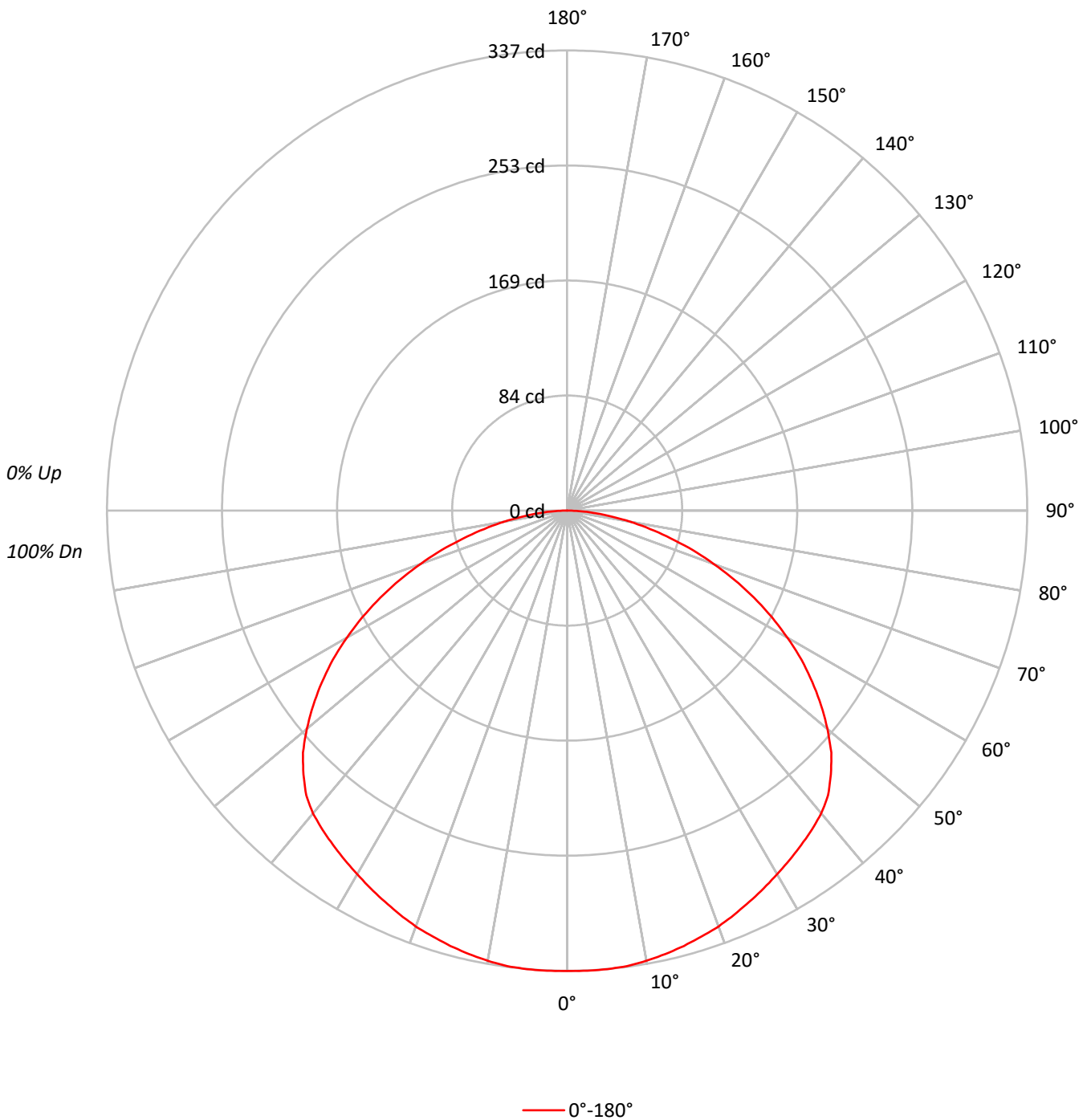
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1120.2 lumens  
Efficiency: N/A  
Efficacy: 42.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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: 0.333 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   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 82  | 76  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 62  | 74  | 67  | 61  | 71  | 65  | 60  | 68  | 63  | 59  | 57  |
| 4   | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 52  | 65  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 48  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 41  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 43  | 38  | 36  |
| 7   | 63  | 50  | 40  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 31  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 42  | 35  | 30  | 40  | 34  | 30  | 28  |
| 9   | 55  | 41  | 33  | 27  | 53  | 41  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |
| 10  | 51  | 38  | 30  | 24  | 50  | 37  | 30  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 34  | 28  | 24  | 22  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 1843 |
| 5°  | 1850 |
| 10° | 1859 |
| 15° | 1868 |
| 20° | 1886 |
| 25° | 1906 |
| 30° | 1941 |
| 35° | 1995 |
| 40° | 2066 |
| 45° | 2112 |
| 50° | 2117 |
| 55° | 2090 |
| 60° | 2038 |
| 65° | 1953 |
| 70° | 1825 |
| 75° | 1658 |
| 80° | 1470 |
| 85° | 1198 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 2123 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.1   | 2.9       |
| 10°-20°   | 93.3   | 8.3       |
| 20°-30°   | 146.0  | 13.0      |
| 30°-40°   | 187.5  | 16.7      |
| 40°-50°   | 210.2  | 18.8      |
| 50°-60°   | 195.7  | 17.5      |
| 60°-70°   | 149.2  | 13.3      |
| 70°-80°   | 83.7   | 7.5       |
| 80°-90°   | 22.5   | 2.0       |
| 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°    | 271.5  | 24.2      |
| 0°-40°    | 459.0  | 41.0      |
| 0°-60°    | 864.8  | 77.2      |
| 0°-90°    | 1120.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1120.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 337 |      |
| 5°  | 337 | 32   |
| 15° | 330 | 93   |
| 25° | 316 | 146  |
| 35° | 299 | 187  |
| 45° | 273 | 210  |
| 55° | 219 | 196  |
| 65° | 151 | 149  |
| 75° | 78  | 84   |
| 85° | 19  | 22   |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 337.1 |
| 2.5°  | 337.3 |
| 5°    | 337.1 |
| 7.5°  | 336.5 |
| 10°   | 334.8 |
| 12.5° | 332.6 |
| 15°   | 330.1 |
| 17.5° | 327.1 |
| 20°   | 324.1 |
| 22.5° | 320.2 |
| 25°   | 316.0 |
| 27.5° | 311.9 |
| 30°   | 307.5 |
| 32.5° | 303.3 |
| 35°   | 298.9 |
| 37.5° | 294.5 |
| 40°   | 289.5 |
| 42.5° | 282.9 |
| 45°   | 273.2 |
| 47.5° | 262.4 |
| 50°   | 248.9 |
| 52.5° | 234.5 |
| 55°   | 219.3 |
| 57.5° | 203.5 |
| 60°   | 186.4 |
| 62.5° | 168.9 |
| 65°   | 151.0 |
| 67.5° | 132.7 |
| 70°   | 114.2 |
| 72.5° | 96.5  |
| 75°   | 78.5  |
| 77.5° | 62.2  |
| 80°   | 46.7  |
| 82.5° | 31.8  |
| 85°   | 19.1  |
| 87.5° | 8.3   |
| 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 | 14.96            | 16.65 | 15.33 | 16.97 | 17.28 | 14.96          | 16.65 | 15.33 | 16.97 | 17.28 |
|                 | 3H   | 16.75            | 18.28 | 17.13 | 18.60 | 18.96 | 16.75          | 18.28 | 17.13 | 18.60 | 18.96 |
|                 | 4H   | 17.39            | 18.84 | 17.79 | 19.18 | 19.56 | 17.39          | 18.84 | 17.79 | 19.18 | 19.56 |
|                 | 6H   | 17.86            | 19.20 | 18.27 | 19.56 | 19.95 | 17.86          | 19.20 | 18.27 | 19.56 | 19.95 |
|                 | 8H   | 18.00            | 19.28 | 18.43 | 19.67 | 20.07 | 18.00          | 19.28 | 18.43 | 19.67 | 20.07 |
|                 | 12H  | 18.10            | 19.32 | 18.52 | 19.70 | 20.13 | 18.10          | 19.32 | 18.52 | 19.70 | 20.13 |
| 4H              | 2H   | 15.61            | 17.05 | 16.00 | 17.40 | 17.77 | 15.61          | 17.05 | 16.00 | 17.40 | 17.77 |
|                 | 3H   | 17.60            | 18.82 | 18.01 | 19.21 | 19.61 | 17.60          | 18.82 | 18.01 | 19.21 | 19.61 |
|                 | 4H   | 18.37            | 19.47 | 18.80 | 19.88 | 20.32 | 18.37          | 19.47 | 18.80 | 19.88 | 20.32 |
|                 | 6H   | 18.96            | 19.92 | 19.42 | 20.36 | 20.82 | 18.96          | 19.92 | 19.42 | 20.36 | 20.82 |
|                 | 8H   | 19.15            | 20.05 | 19.61 | 20.49 | 20.96 | 19.15          | 20.05 | 19.61 | 20.49 | 20.96 |
|                 | 12H  | 19.29            | 20.10 | 19.76 | 20.57 | 21.04 | 19.29          | 20.10 | 19.76 | 20.57 | 21.04 |
| 8H              | 4H   | 18.68            | 19.58 | 19.14 | 20.02 | 20.48 | 18.68          | 19.58 | 19.14 | 20.02 | 20.48 |
|                 | 6H   | 19.39            | 20.14 | 19.88 | 20.62 | 21.10 | 19.39          | 20.14 | 19.88 | 20.62 | 21.10 |
|                 | 8H   | 19.64            | 20.31 | 20.15 | 20.82 | 21.30 | 19.64          | 20.31 | 20.15 | 20.82 | 21.30 |
|                 | 12H  | 19.84            | 20.44 | 20.35 | 20.93 | 21.48 | 19.84          | 20.44 | 20.35 | 20.93 | 21.48 |
| 12H             | 4H   | 18.71            | 19.52 | 19.19 | 20.00 | 20.47 | 18.71          | 19.52 | 19.19 | 20.00 | 20.47 |
|                 | 6H   | 19.44            | 20.11 | 19.95 | 20.62 | 21.10 | 19.44          | 20.11 | 19.95 | 20.62 | 21.10 |
|                 | 8H   | 19.75            | 20.34 | 20.25 | 20.83 | 21.39 | 19.75          | 20.34 | 20.25 | 20.83 | 21.39 |