

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: P865997

Luminaire Tested: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

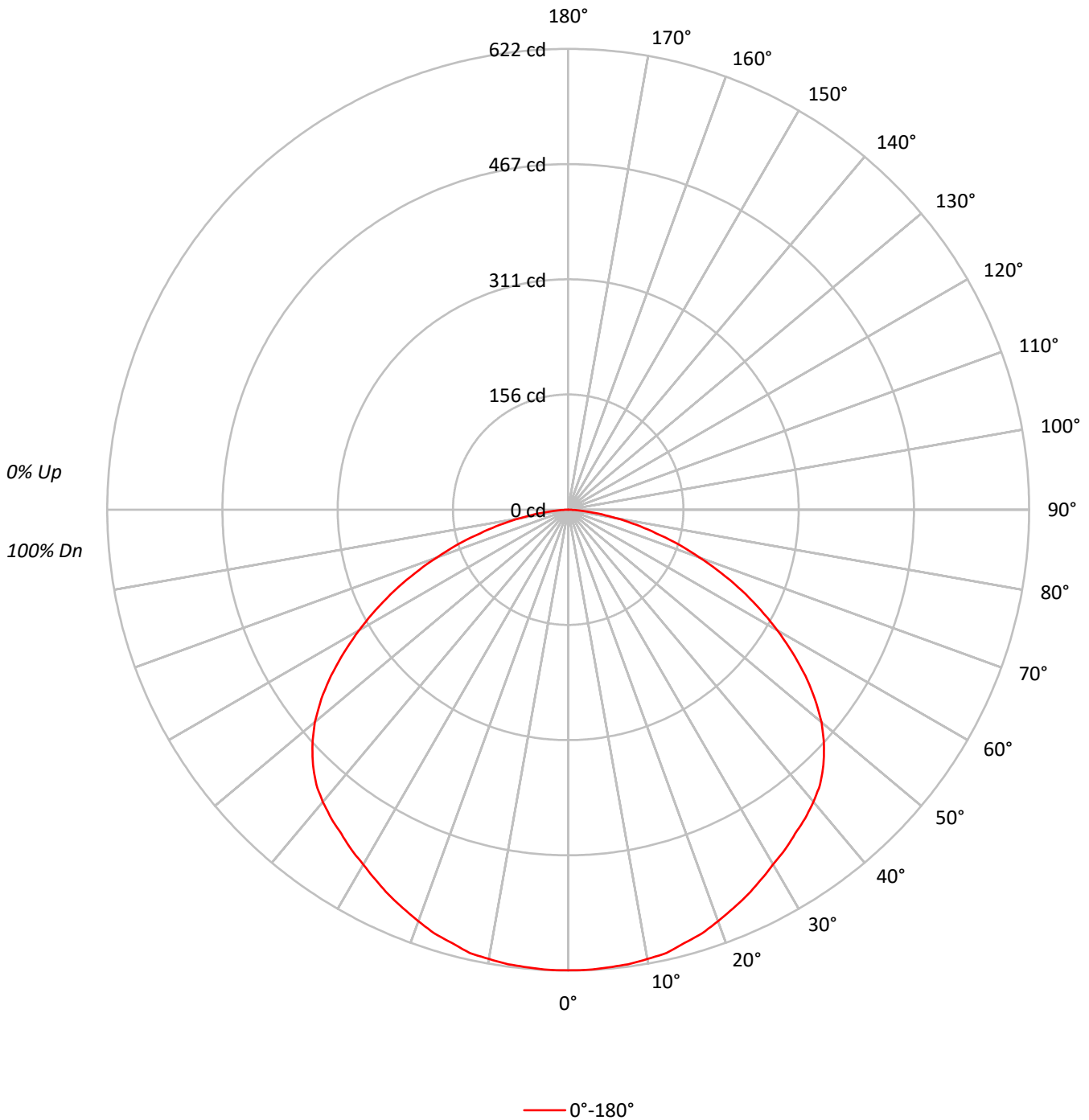
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1967.0 lumens  
Efficiency: N/A  
Efficacy: 40.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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

TEST NUMBER: P865997

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865997

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

**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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 46  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 37  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |
| 8   | 59  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 28  |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |
| 10  | 52  | 39  | 30  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 25  | 23  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 5276 |
| 5°  | 5283 |
| 10° | 5306 |
| 15° | 5320 |
| 20° | 5337 |
| 25° | 5369 |
| 30° | 5418 |
| 35° | 5531 |
| 40° | 5704 |
| 45° | 5846 |
| 50° | 5891 |
| 55° | 5779 |
| 60° | 5536 |
| 65° | 5199 |
| 70° | 4682 |
| 75° | 4030 |
| 80° | 3216 |
| 85° | 1996 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 5891 cd/sqm

TEST NUMBER: P865997

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 3.0       |
| 10°-20°   | 171.3  | 8.7       |
| 20°-30°   | 264.6  | 13.5      |
| 30°-40°   | 335.2  | 17.0      |
| 40°-50°   | 374.7  | 19.0      |
| 50°-60°   | 347.7  | 17.7      |
| 60°-70°   | 255.4  | 13.0      |
| 70°-80°   | 131.8  | 6.7       |
| 80°-90°   | 27.3   | 1.4       |
| 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°    | 494.9  | 25.2      |
| 0°-40°    | 830.1  | 42.2      |
| 0°-60°    | 1552.5 | 78.9      |
| 0°-90°    | 1967.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1967.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 622 |      |
| 5°  | 620 | 59   |
| 15° | 606 | 171  |
| 25° | 573 | 265  |
| 35° | 534 | 335  |
| 45° | 487 | 375  |
| 55° | 391 | 348  |
| 65° | 259 | 255  |
| 75° | 123 | 132  |
| 85° | 20  | 27   |
| 90° | 0   |      |

TEST NUMBER: P865997

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 621.7 |
| 2.5°  | 621.7 |
| 5°    | 620.2 |
| 7.5°  | 618.8 |
| 10°   | 615.8 |
| 12.5° | 612.9 |
| 15°   | 605.6 |
| 17.5° | 599.8 |
| 20°   | 591.0 |
| 22.5° | 582.2 |
| 25°   | 573.4 |
| 27.5° | 563.2 |
| 30°   | 552.9 |
| 32.5° | 544.2 |
| 35°   | 533.9 |
| 37.5° | 525.1 |
| 40°   | 514.9 |
| 42.5° | 503.2 |
| 45°   | 487.1 |
| 47.5° | 468.1 |
| 50°   | 446.2 |
| 52.5° | 419.8 |
| 55°   | 390.6 |
| 57.5° | 358.4 |
| 60°   | 326.2 |
| 62.5° | 292.6 |
| 65°   | 258.9 |
| 67.5° | 223.8 |
| 70°   | 188.7 |
| 72.5° | 156.5 |
| 75°   | 122.9 |
| 77.5° | 93.6  |
| 80°   | 65.8  |
| 82.5° | 41.0  |
| 85°   | 20.5  |
| 87.5° | 5.9   |
| 90°   | 0.0   |

TEST NUMBER: P865997

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-BRSS-X

**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 | 18.49            | 20.16 | 18.86 | 20.47 | 20.79 | 18.49          | 20.16 | 18.86 | 20.47 | 20.79 |
|                 | 3H   | 20.13            | 21.64 | 20.51 | 21.96 | 22.32 | 20.13          | 21.64 | 20.51 | 21.96 | 22.32 |
|                 | 4H   | 20.68            | 22.10 | 21.07 | 22.44 | 22.82 | 20.68          | 22.10 | 21.07 | 22.44 | 22.82 |
|                 | 6H   | 21.02            | 22.34 | 21.43 | 22.70 | 23.09 | 21.02          | 22.34 | 21.43 | 22.70 | 23.09 |
|                 | 8H   | 21.10            | 22.36 | 21.53 | 22.75 | 23.15 | 21.10          | 22.36 | 21.53 | 22.75 | 23.15 |
|                 | 12H  | 21.14            | 22.34 | 21.56 | 22.72 | 23.15 | 21.14          | 22.34 | 21.56 | 22.72 | 23.15 |
| 4H              | 2H   | 19.10            | 20.52 | 19.50 | 20.87 | 21.24 | 19.10          | 20.52 | 19.50 | 20.87 | 21.24 |
|                 | 3H   | 20.94            | 22.13 | 21.35 | 22.52 | 22.92 | 20.94          | 22.13 | 21.35 | 22.52 | 22.92 |
|                 | 4H   | 21.59            | 22.67 | 22.02 | 23.08 | 23.51 | 21.59          | 22.67 | 22.02 | 23.08 | 23.51 |
|                 | 6H   | 22.04            | 22.98 | 22.49 | 23.42 | 23.87 | 22.04          | 22.98 | 22.49 | 23.42 | 23.87 |
|                 | 8H   | 22.15            | 23.03 | 22.61 | 23.47 | 23.93 | 22.15          | 23.03 | 22.61 | 23.47 | 23.93 |
|                 | 12H  | 22.21            | 23.00 | 22.69 | 23.47 | 23.94 | 22.21          | 23.00 | 22.69 | 23.47 | 23.94 |
| 8H              | 4H   | 21.84            | 22.72 | 22.30 | 23.16 | 23.63 | 21.84          | 22.72 | 22.30 | 23.16 | 23.63 |
|                 | 6H   | 22.38            | 23.10 | 22.87 | 23.59 | 24.07 | 22.38          | 23.10 | 22.87 | 23.59 | 24.07 |
|                 | 8H   | 22.53            | 23.18 | 23.04 | 23.69 | 24.17 | 22.53          | 23.18 | 23.04 | 23.69 | 24.17 |
|                 | 12H  | 22.63            | 23.20 | 23.13 | 23.69 | 24.25 | 22.63          | 23.20 | 23.13 | 23.69 | 24.25 |
| 12H             | 4H   | 21.86            | 22.65 | 22.34 | 23.12 | 23.59 | 21.86          | 22.65 | 22.34 | 23.12 | 23.59 |
|                 | 6H   | 22.40            | 23.05 | 22.91 | 23.56 | 24.04 | 22.40          | 23.05 | 22.91 | 23.56 | 24.04 |
|                 | 8H   | 22.60            | 23.17 | 23.10 | 23.66 | 24.22 | 22.60          | 23.17 | 23.10 | 23.66 | 24.22 |