

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: P865962

Luminaire Tested: PRLX-2001-M-930-07L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865962  
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-930-07L-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 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

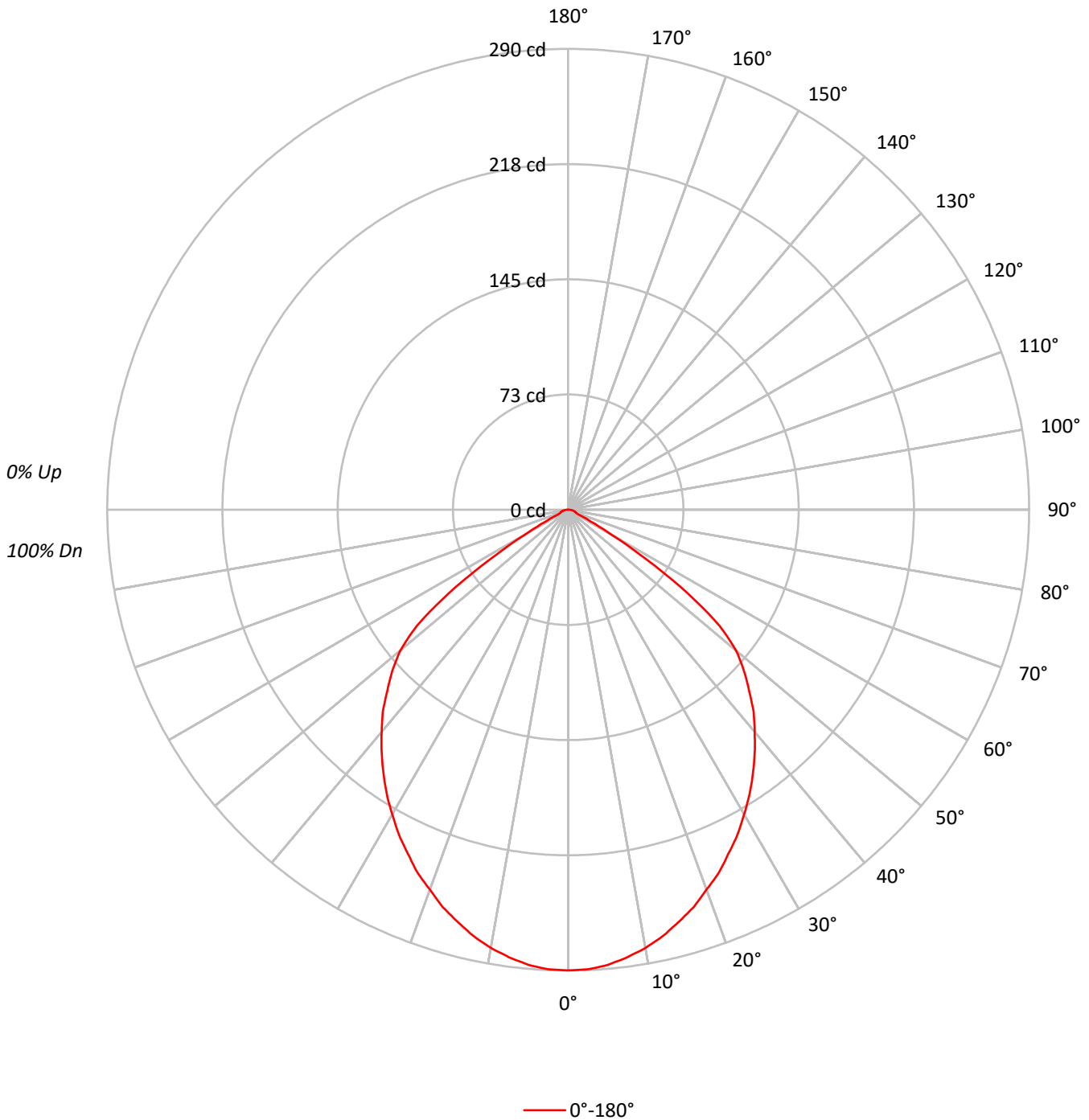
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 560.1 lumens  
Efficiency: N/A  
Efficacy: 68.3 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): 8.2  
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 | 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°  | 2460 |
| 5°  | 2449 |
| 10° | 2413 |
| 15° | 2359 |
| 20° | 2297 |
| 25° | 2235 |
| 30° | 2169 |
| 35° | 2099 |
| 40° | 2022 |
| 45° | 1931 |
| 50° | 1822 |
| 55° | 1364 |
| 60° | 538  |
| 65° | 147  |
| 70° | 127  |
| 75° | 134  |
| 80° | 147  |
| 85° | 146  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1931 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.2   | 4.9       |
| 10°-20°   | 75.7   | 13.5      |
| 20°-30°   | 110.0  | 19.6      |
| 30°-40°   | 126.7  | 22.6      |
| 40°-50°   | 124.2  | 22.2      |
| 50°-60°   | 78.9   | 14.1      |
| 60°-70°   | 11.5   | 2.1       |
| 70°-80°   | 4.3    | 0.8       |
| 80°-90°   | 1.7    | 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°    | 212.9  | 38.0      |
| 0°-40°    | 339.6  | 60.6      |
| 0°-60°    | 542.6  | 96.9      |
| 0°-90°    | 560.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 560.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 290 |      |
| 5°  | 288 | 27   |
| 15° | 268 | 76   |
| 25° | 239 | 110  |
| 35° | 203 | 127  |
| 45° | 161 | 124  |
| 55° | 92  | 79   |
| 65° | 7   | 12   |
| 75° | 4   | 4    |
| 85° | 2   | 2    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 289.9 |
| 2.5°  | 289.5 |
| 5°    | 287.5 |
| 7.5°  | 284.1 |
| 10°   | 280.0 |
| 12.5° | 274.9 |
| 15°   | 268.5 |
| 17.5° | 262.3 |
| 20°   | 254.4 |
| 22.5° | 247.5 |
| 25°   | 238.7 |
| 27.5° | 230.6 |
| 30°   | 221.4 |
| 32.5° | 212.4 |
| 35°   | 202.6 |
| 37.5° | 192.8 |
| 40°   | 182.5 |
| 42.5° | 172.6 |
| 45°   | 160.9 |
| 47.5° | 150.0 |
| 50°   | 138.0 |
| 52.5° | 120.2 |
| 55°   | 92.2  |
| 57.5° | 58.8  |
| 60°   | 31.7  |
| 62.5° | 16.0  |
| 65°   | 7.3   |
| 67.5° | 5.3   |
| 70°   | 5.1   |
| 72.5° | 4.7   |
| 75°   | 4.1   |
| 77.5° | 3.6   |
| 80°   | 3.0   |
| 82.5° | 2.3   |
| 85°   | 1.5   |
| 87.5° | 0.8   |
| 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 | 10.44            | 11.84 | 10.80 | 12.15 | 12.47 | 10.44          | 11.84 | 10.80 | 12.15 | 12.47 |
|                 | 3H   | 10.37            | 11.60 | 10.75 | 11.93 | 12.30 | 10.37          | 11.60 | 10.75 | 11.93 | 12.30 |
|                 | 4H   | 10.34            | 11.49 | 10.75 | 11.84 | 12.22 | 10.34          | 11.49 | 10.75 | 11.84 | 12.22 |
|                 | 6H   | 10.32            | 11.37 | 10.74 | 11.74 | 12.14 | 10.32          | 11.37 | 10.74 | 11.74 | 12.14 |
|                 | 8H   | 10.31            | 11.30 | 10.74 | 11.69 | 12.10 | 10.31          | 11.30 | 10.74 | 11.69 | 12.10 |
|                 | 12H  | 10.29            | 11.24 | 10.72 | 11.62 | 12.05 | 10.29          | 11.24 | 10.72 | 11.62 | 12.05 |
| 4H              | 2H   | 10.28            | 11.42 | 10.68 | 11.77 | 12.16 | 10.28          | 11.42 | 10.68 | 11.77 | 12.16 |
|                 | 3H   | 10.24            | 11.16 | 10.65 | 11.57 | 11.97 | 10.24          | 11.16 | 10.65 | 11.57 | 11.97 |
|                 | 4H   | 10.23            | 11.05 | 10.66 | 11.47 | 11.91 | 10.23          | 11.05 | 10.66 | 11.47 | 11.91 |
|                 | 6H   | 10.24            | 10.95 | 10.70 | 11.39 | 11.86 | 10.24          | 10.95 | 10.70 | 11.39 | 11.86 |
|                 | 8H   | 10.23            | 10.89 | 10.70 | 11.34 | 11.81 | 10.23          | 10.89 | 10.70 | 11.34 | 11.81 |
|                 | 12H  | 10.22            | 10.81 | 10.71 | 11.29 | 11.77 | 10.22          | 10.81 | 10.71 | 11.29 | 11.77 |
| 8H              | 4H   | 10.14            | 10.80 | 10.60 | 11.24 | 11.72 | 10.14          | 10.80 | 10.60 | 11.24 | 11.72 |
|                 | 6H   | 10.16            | 10.70 | 10.66 | 11.20 | 11.68 | 10.16          | 10.70 | 10.66 | 11.20 | 11.68 |
|                 | 8H   | 10.16            | 10.66 | 10.68 | 11.17 | 11.66 | 10.16          | 10.66 | 10.68 | 11.17 | 11.66 |
|                 | 12H  | 10.18            | 10.62 | 10.69 | 11.12 | 11.69 | 10.18          | 10.62 | 10.69 | 11.12 | 11.69 |
| 12H             | 4H   | 10.10            | 10.69 | 10.58 | 11.17 | 11.64 | 10.10          | 10.69 | 10.58 | 11.17 | 11.64 |
|                 | 6H   | 10.11            | 10.61 | 10.63 | 11.12 | 11.61 | 10.11          | 10.61 | 10.63 | 11.12 | 11.61 |
|                 | 8H   | 10.14            | 10.59 | 10.65 | 11.08 | 11.65 | 10.14          | 10.59 | 10.65 | 11.08 | 11.65 |