

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: P866452

Luminaire Tested: PRLX-2004-M-927-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-927-65L-G-U-S-X-X-BLAK-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

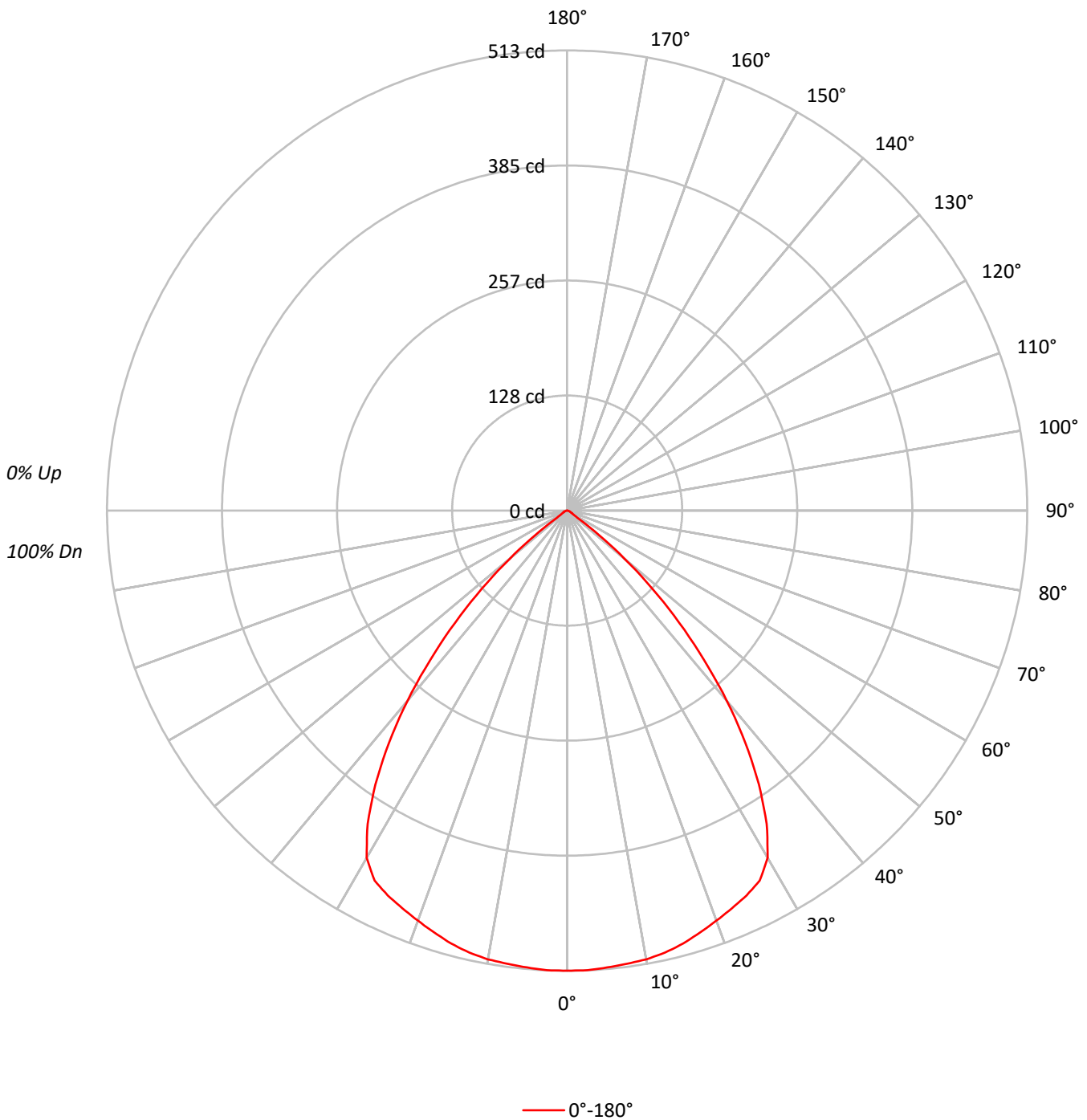
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 804.8 lumens  
Efficiency: N/A  
Efficacy: 13.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.18  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 94  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 82  | 97  | 91  | 85  | 81  | 88  | 83  | 80  | 85  | 82  | 78  | 83  | 80  | 77  | 76  |
| 4   | 93  | 85  | 78  | 73  | 91  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 69  |
| 5   | 88  | 78  | 71  | 66  | 86  | 77  | 70  | 66  | 75  | 69  | 65  | 73  | 68  | 65  | 72  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 80  | 71  | 64  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 57  |
| 7   | 77  | 66  | 59  | 55  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 52  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 58  | 53  | 49  | 48  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 54  | 49  | 45  | 44  |
| 10  | 64  | 53  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 42  | 40  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 4081 |
| 5°  | 4083 |
| 10° | 4104 |
| 15° | 4116 |
| 20° | 4119 |
| 25° | 4155 |
| 30° | 4105 |
| 35° | 3620 |
| 40° | 2878 |
| 45° | 1986 |
| 50° | 1041 |
| 55° | 205  |
| 60° | 105  |
| 65° | 92   |
| 70° | 77   |
| 75° | 49   |
| 80° | 73   |
| 85° | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1986 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.7   | 6.1       |
| 10°-20°   | 141.0  | 17.5      |
| 20°-30°   | 217.6  | 27.0      |
| 30°-40°   | 229.6  | 28.5      |
| 40°-50°   | 135.7  | 16.9      |
| 50°-60°   | 24.7   | 3.1       |
| 60°-70°   | 4.5    | 0.6       |
| 70°-80°   | 2.4    | 0.3       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 407.4  | 50.6      |
| 0°-40°    | 637.0  | 79.1      |
| 0°-60°    | 797.3  | 99.1      |
| 0°-90°    | 804.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 804.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 513 |      |
| 5°  | 511 | 49   |
| 15° | 500 | 141  |
| 25° | 473 | 218  |
| 35° | 373 | 230  |
| 45° | 176 | 136  |
| 55° | 15  | 25   |
| 65° | 5   | 4    |
| 75° | 2   | 2    |
| 85° | 0   | 1    |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 512.9 |
| 2.5°  | 512.9 |
| 5°    | 511.3 |
| 7.5°  | 509.6 |
| 10°   | 508.0 |
| 12.5° | 504.7 |
| 15°   | 499.7 |
| 17.5° | 493.1 |
| 20°   | 486.5 |
| 22.5° | 479.9 |
| 25°   | 473.3 |
| 27.5° | 465.1 |
| 30°   | 446.9 |
| 32.5° | 414.0 |
| 35°   | 372.7 |
| 37.5° | 326.5 |
| 40°   | 277.1 |
| 42.5° | 225.9 |
| 45°   | 176.5 |
| 47.5° | 128.6 |
| 50°   | 84.1  |
| 52.5° | 44.5  |
| 55°   | 14.8  |
| 57.5° | 8.2   |
| 60°   | 6.6   |
| 62.5° | 4.9   |
| 65°   | 4.9   |
| 67.5° | 3.3   |
| 70°   | 3.3   |
| 72.5° | 3.3   |
| 75°   | 1.6   |
| 77.5° | 1.6   |
| 80°   | 1.6   |
| 82.5° | 1.6   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 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 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.08 | 0.00           | 0.00 | 0.00 | 0.00 | 0.08 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.18 | 0.00           | 0.00 | 0.00 | 0.00 | 0.18 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.23 | 0.00           | 0.00 | 0.00 | 0.00 | 0.23 |