

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: P865689

Luminaire Tested: PRLX-2002-S-935-25L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-935-25L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

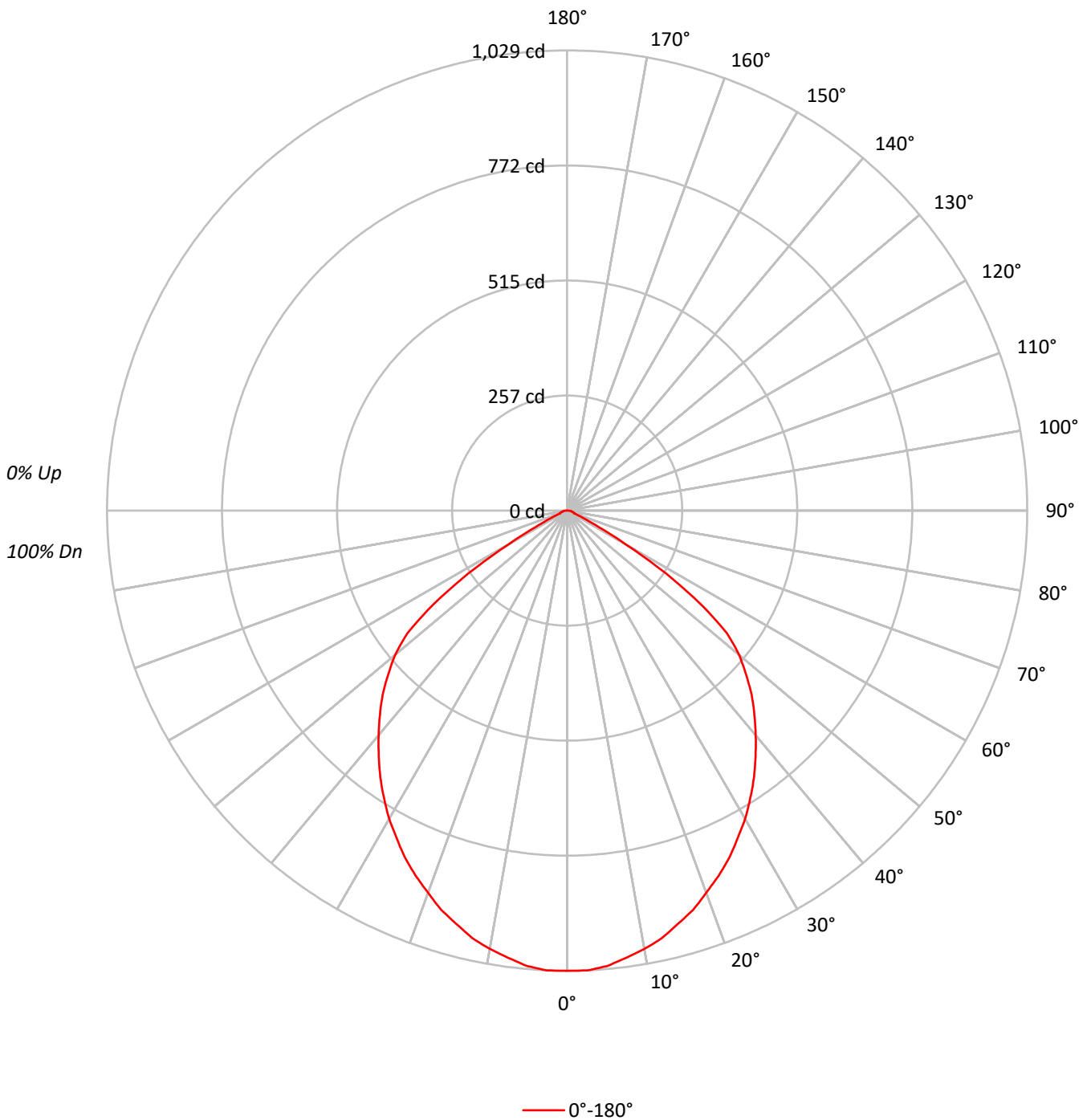
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2050.4 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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   | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 80  | 79  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |
| 4   | 89  | 79  | 71  | 66  | 87  | 77  | 70  | 65  | 75  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 63  | 61  |
| 5   | 82  | 71  | 63  | 58  | 80  | 70  | 63  | 57  | 68  | 62  | 57  | 66  | 61  | 56  | 65  | 60  | 56  | 54  |
| 6   | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 55  | 50  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |
| 7   | 71  | 59  | 51  | 46  | 70  | 58  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 37  | 34  | 32  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 19333 |
| 5°  | 19278 |
| 10° | 18983 |
| 15° | 18607 |
| 20° | 18177 |
| 25° | 17769 |
| 30° | 17270 |
| 35° | 16701 |
| 40° | 16086 |
| 45° | 15503 |
| 50° | 14673 |
| 55° | 11927 |
| 60° | 5692  |
| 65° | 1809  |
| 70° | 868   |
| 75° | 987   |
| 80° | 974   |
| 85° | 1466  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15503 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.6   | 4.7       |
| 10°-20°   | 269.8  | 13.2      |
| 20°-30°   | 394.2  | 19.2      |
| 30°-40°   | 455.1  | 22.2      |
| 40°-50°   | 448.6  | 21.9      |
| 50°-60°   | 311.7  | 15.2      |
| 60°-70°   | 54.2   | 2.6       |
| 70°-80°   | 14.0   | 0.7       |
| 80°-90°   | 6.2    | 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°    | 760.7  | 37.1      |
| 0°-40°    | 1215.8 | 59.3      |
| 0°-60°    | 1976.1 | 96.4      |
| 0°-90°    | 2050.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2050.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1029 |      |
| 5°  | 1022 | 97   |
| 15° | 957  | 270  |
| 25° | 857  | 394  |
| 35° | 728  | 455  |
| 45° | 584  | 449  |
| 55° | 364  | 312  |
| 65° | 41   | 54   |
| 75° | 14   | 14   |
| 85° | 7    | 6    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1029.2 |
| 2.5°  | 1029.2 |
| 5°    | 1022.4 |
| 7.5°  | 1008.8 |
| 10°   | 995.2  |
| 12.5° | 979.4  |
| 15°   | 956.8  |
| 17.5° | 936.4  |
| 20°   | 909.3  |
| 22.5° | 884.4  |
| 25°   | 857.3  |
| 27.5° | 825.6  |
| 30°   | 796.2  |
| 32.5° | 762.3  |
| 35°   | 728.3  |
| 37.5° | 692.1  |
| 40°   | 656.0  |
| 42.5° | 619.8  |
| 45°   | 583.6  |
| 47.5° | 542.9  |
| 50°   | 502.1  |
| 52.5° | 450.1  |
| 55°   | 364.2  |
| 57.5° | 262.4  |
| 60°   | 151.5  |
| 62.5° | 79.2   |
| 65°   | 40.7   |
| 67.5° | 18.1   |
| 70°   | 15.8   |
| 72.5° | 15.8   |
| 75°   | 13.6   |
| 77.5° | 11.3   |
| 80°   | 9.0    |
| 82.5° | 9.0    |
| 85°   | 6.8    |
| 87.5° | 2.3    |
| 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 | 19.08            | 20.50 | 19.44 | 20.81 | 21.13 | 19.08          | 20.50 | 19.44 | 20.81 | 21.13 |
|                 | 3H   | 18.99            | 20.24 | 19.37 | 20.57 | 20.93 | 18.99          | 20.24 | 19.37 | 20.57 | 20.93 |
|                 | 4H   | 18.95            | 20.11 | 19.35 | 20.46 | 20.84 | 18.95          | 20.11 | 19.35 | 20.46 | 20.84 |
|                 | 6H   | 18.90            | 19.97 | 19.31 | 20.33 | 20.73 | 18.90          | 19.97 | 19.31 | 20.33 | 20.73 |
|                 | 8H   | 18.88            | 19.89 | 19.30 | 20.28 | 20.68 | 18.88          | 19.89 | 19.30 | 20.28 | 20.68 |
|                 | 12H  | 18.86            | 19.82 | 19.29 | 20.21 | 20.64 | 18.86          | 19.82 | 19.29 | 20.21 | 20.64 |
| 4H              | 2H   | 18.94            | 20.10 | 19.34 | 20.45 | 20.83 | 18.94          | 20.10 | 19.34 | 20.45 | 20.83 |
|                 | 3H   | 18.87            | 19.80 | 19.28 | 20.21 | 20.61 | 18.87          | 19.80 | 19.28 | 20.21 | 20.61 |
|                 | 4H   | 18.82            | 19.66 | 19.26 | 20.08 | 20.52 | 18.82          | 19.66 | 19.26 | 20.08 | 20.52 |
|                 | 6H   | 18.79            | 19.51 | 19.25 | 19.96 | 20.42 | 18.79          | 19.51 | 19.25 | 19.96 | 20.42 |
|                 | 8H   | 18.77            | 19.44 | 19.24 | 19.89 | 20.36 | 18.77          | 19.44 | 19.24 | 19.89 | 20.36 |
|                 | 12H  | 18.76            | 19.36 | 19.25 | 19.84 | 20.31 | 18.76          | 19.36 | 19.25 | 19.84 | 20.31 |
| 8H              | 4H   | 18.72            | 19.39 | 19.18 | 19.83 | 20.30 | 18.72          | 19.39 | 19.18 | 19.83 | 20.30 |
|                 | 6H   | 18.67            | 19.23 | 19.18 | 19.73 | 20.21 | 18.67          | 19.23 | 19.18 | 19.73 | 20.21 |
|                 | 8H   | 18.66            | 19.16 | 19.18 | 19.68 | 20.17 | 18.66          | 19.16 | 19.18 | 19.68 | 20.17 |
|                 | 12H  | 18.67            | 19.13 | 19.19 | 19.62 | 20.19 | 18.67          | 19.13 | 19.19 | 19.62 | 20.19 |
| 12H             | 4H   | 18.67            | 19.27 | 19.16 | 19.75 | 20.23 | 18.67          | 19.27 | 19.16 | 19.75 | 20.23 |
|                 | 6H   | 18.62            | 19.13 | 19.14 | 19.64 | 20.13 | 18.62          | 19.13 | 19.14 | 19.64 | 20.13 |
|                 | 8H   | 18.63            | 19.09 | 19.15 | 19.58 | 20.15 | 18.63          | 19.09 | 19.15 | 19.58 | 20.15 |