

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: P867326

Luminaire Tested: PRLX-2004-L-935-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-15L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

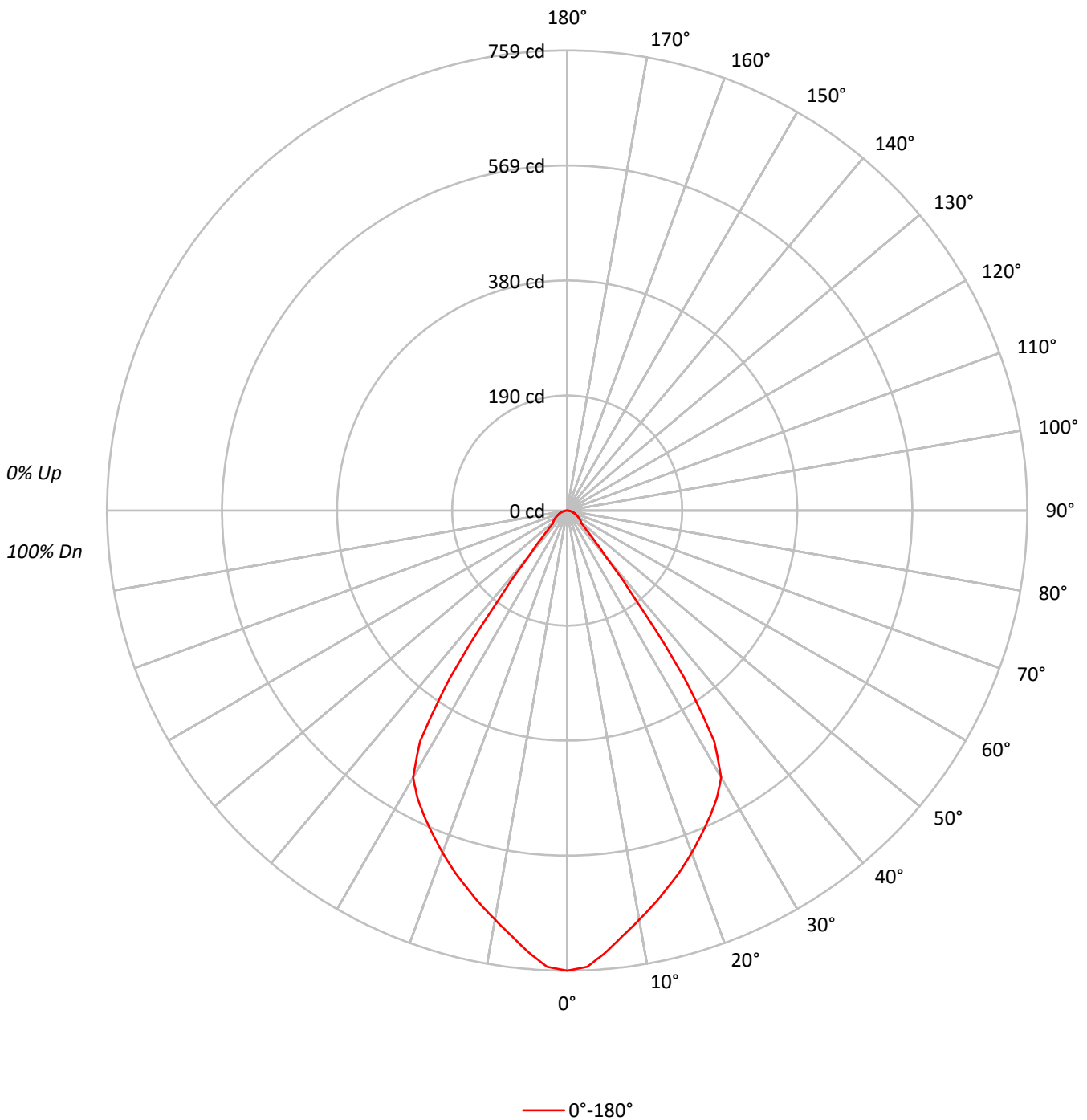
Lumens per Lamp: N/A
Luminaire Lumens: 791.3 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): 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 | 108 | 105 | 103 | 103 | 101 | 100 | | 100 | 98 | 97 | | 96 | 95 | 94 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | | 93 | 90 | 88 | | 90 | 88 | 86 | 84 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 89 | 85 | 82 | | 87 | 83 | 80 | | 85 | 82 | 79 | 77 |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 83 | 79 | 75 | | 81 | 77 | 74 | | 79 | 76 | 73 | 71 |
| 5 | 90 | 81 | 74 | 70 | 88 | 80 | 74 | 69 | 78 | 73 | 69 | | 76 | 72 | 68 | | 75 | 71 | 68 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | | 71 | 67 | 63 | | 70 | 66 | 63 | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | | 67 | 62 | 59 | | 66 | 62 | 58 | 57 |
| 8 | 76 | 66 | 60 | 55 | 75 | 65 | 59 | 55 | 64 | 59 | 55 | | 63 | 58 | 55 | | 62 | 58 | 54 | 53 |
| 9 | 72 | 62 | 56 | 51 | 71 | 62 | 55 | 51 | 61 | 55 | 51 | | 60 | 55 | 51 | | 59 | 54 | 51 | 49 |
| 10 | 69 | 58 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | | 56 | 51 | 48 | | 56 | 51 | 48 | 46 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 3744 |
| 5° | 3622 |
| 10° | 3433 |
| 15° | 3284 |
| 20° | 3153 |
| 25° | 3031 |
| 30° | 2894 |
| 35° | 2027 |
| 40° | 638 |
| 45° | 309 |
| 50° | 230 |
| 55° | 223 |
| 60° | 207 |
| 65° | 191 |
| 70° | 179 |
| 75° | 168 |
| 80° | 156 |
| 85° | 147 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 309 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.3 | 8.6 |
| 10°-20° | 181.1 | 22.9 |
| 20°-30° | 256.1 | 32.4 |
| 30°-40° | 195.0 | 24.6 |
| 40°-50° | 39.2 | 5.0 |
| 50°-60° | 23.0 | 2.9 |
| 60°-70° | 16.3 | 2.1 |
| 70°-80° | 9.3 | 1.2 |
| 80°-90° | 2.9 | 0.4 |
| 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° | 505.5 | 63.9 |
| 0°-40° | 700.5 | 88.5 |
| 0°-60° | 762.7 | 96.4 |
| 0°-90° | 791.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 791.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 759 | |
| 5° | 731 | 68 |
| 15° | 643 | 181 |
| 25° | 557 | 256 |
| 35° | 336 | 195 |
| 45° | 44 | 39 |
| 55° | 26 | 23 |
| 65° | 16 | 16 |
| 75° | 9 | 9 |
| 85° | 3 | 3 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 758.9 |
| 2.5° | 753.2 |
| 5° | 731.4 |
| 7.5° | 706.9 |
| 10° | 685.2 |
| 12.5° | 664.3 |
| 15° | 642.9 |
| 17.5° | 622.4 |
| 20° | 600.6 |
| 22.5° | 578.5 |
| 25° | 556.7 |
| 27.5° | 534.6 |
| 30° | 507.9 |
| 32.5° | 451.4 |
| 35° | 336.5 |
| 37.5° | 186.0 |
| 40° | 99.0 |
| 42.5° | 65.5 |
| 45° | 44.3 |
| 47.5° | 31.9 |
| 50° | 30.0 |
| 52.5° | 28.2 |
| 55° | 25.9 |
| 57.5° | 23.3 |
| 60° | 21.0 |
| 62.5° | 18.6 |
| 65° | 16.4 |
| 67.5° | 14.4 |
| 70° | 12.4 |
| 72.5° | 10.5 |
| 75° | 8.8 |
| 77.5° | 7.1 |
| 80° | 5.5 |
| 82.5° | 4.0 |
| 85° | 2.6 |
| 87.5° | 1.2 |
| 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 | 1.56 | 2.61 | 1.92 | 2.92 | 3.23 | 1.56 | 2.61 | 1.92 | 2.92 | 3.23 |
| | 3H | 3.12 | 4.05 | 3.50 | 4.38 | 4.75 | 3.12 | 4.05 | 3.50 | 4.38 | 4.75 |
| | 4H | 3.72 | 4.58 | 4.12 | 4.93 | 5.32 | 3.72 | 4.58 | 4.12 | 4.93 | 5.32 |
| | 6H | 4.17 | 4.96 | 4.58 | 5.33 | 5.73 | 4.17 | 4.96 | 4.58 | 5.33 | 5.73 |
| | 8H | 4.32 | 5.06 | 4.75 | 5.45 | 5.86 | 4.32 | 5.06 | 4.75 | 5.45 | 5.86 |
| | 12H | 4.42 | 5.13 | 4.85 | 5.51 | 5.94 | 4.42 | 5.13 | 4.85 | 5.51 | 5.94 |
| 4H | 2H | 2.02 | 2.88 | 2.43 | 3.23 | 3.62 | 2.02 | 2.88 | 2.43 | 3.23 | 3.62 |
| | 3H | 3.79 | 4.50 | 4.21 | 4.91 | 5.31 | 3.79 | 4.50 | 4.21 | 4.91 | 5.31 |
| | 4H | 4.51 | 5.14 | 4.95 | 5.57 | 6.02 | 4.51 | 5.14 | 4.95 | 5.57 | 6.02 |
| | 6H | 5.09 | 5.64 | 5.56 | 6.09 | 6.56 | 5.09 | 5.64 | 5.56 | 6.09 | 6.56 |
| | 8H | 5.29 | 5.80 | 5.77 | 6.25 | 6.72 | 5.29 | 5.80 | 5.77 | 6.25 | 6.72 |
| | 12H | 5.44 | 5.88 | 5.93 | 6.36 | 6.84 | 5.44 | 5.88 | 5.93 | 6.36 | 6.84 |
| 8H | 4H | 4.73 | 5.24 | 5.21 | 5.69 | 6.16 | 4.73 | 5.24 | 5.21 | 5.69 | 6.16 |
| | 6H | 5.45 | 5.85 | 5.96 | 6.36 | 6.84 | 5.45 | 5.85 | 5.96 | 6.36 | 6.84 |
| | 8H | 5.74 | 6.09 | 6.27 | 6.61 | 7.11 | 5.74 | 6.09 | 6.27 | 6.61 | 7.11 |
| | 12H | 5.98 | 6.29 | 6.50 | 6.78 | 7.36 | 5.98 | 6.29 | 6.50 | 6.78 | 7.36 |
| 12H | 4H | 4.74 | 5.17 | 5.23 | 5.66 | 6.14 | 4.74 | 5.17 | 5.23 | 5.66 | 6.14 |
| | 6H | 5.49 | 5.85 | 6.02 | 6.37 | 6.86 | 5.49 | 5.85 | 6.02 | 6.37 | 6.86 |
| | 8H | 5.83 | 6.14 | 6.35 | 6.64 | 7.22 | 5.83 | 6.14 | 6.35 | 6.64 | 7.22 |