

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: P865940

Luminaire Tested: PRLX-2001-M-927-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-65L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

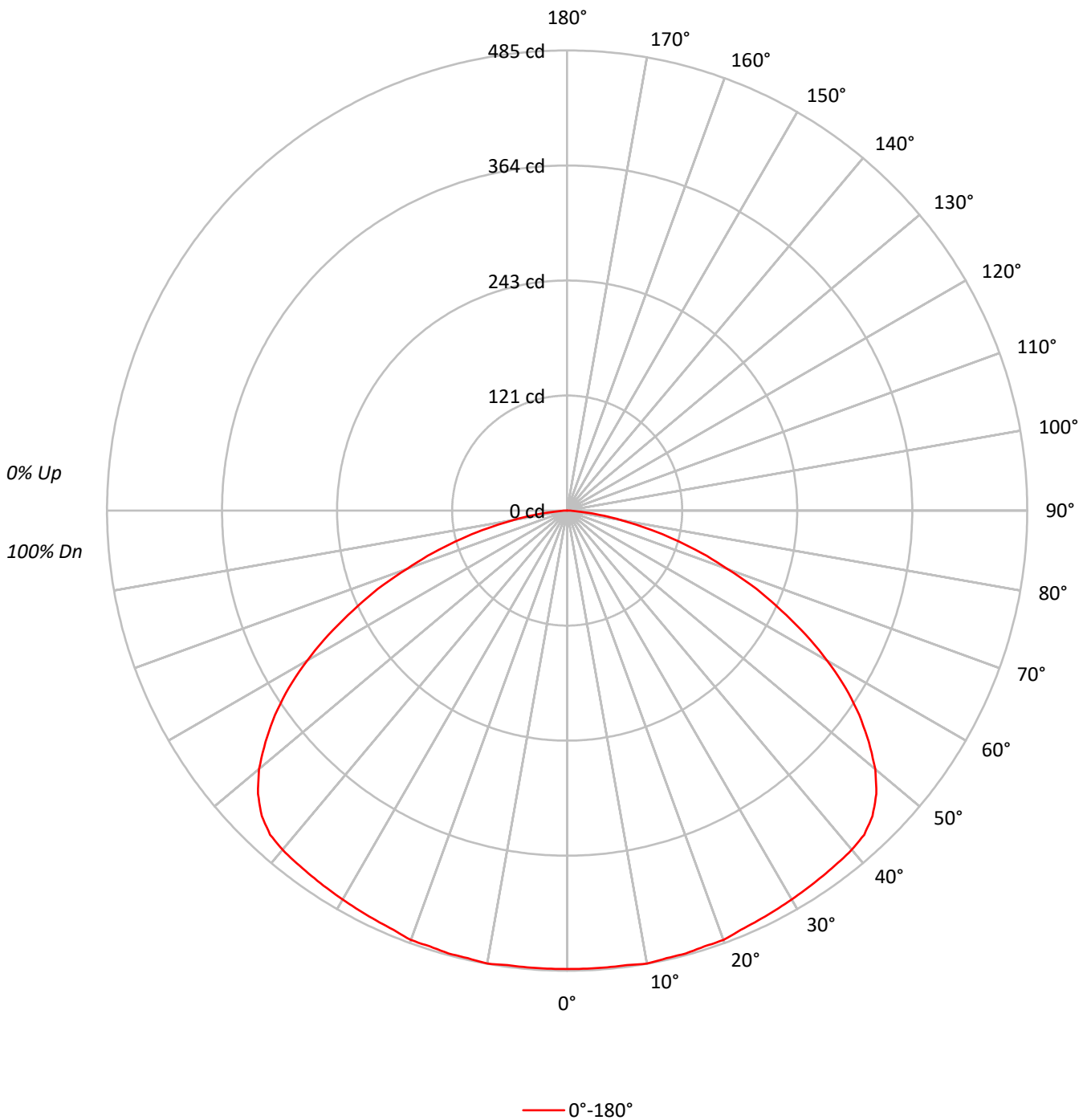
Lumens per Lamp: N/A
Luminaire Lumens: 1774.5 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: 0.5 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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | | 81 | 76 | 72 | | 78 | 74 | 71 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 76 | 69 | 62 | 73 | 67 | 61 | | 71 | 65 | 60 | | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | | 62 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 74 | 61 | 51 | 45 | 72 | 60 | 51 | 44 | 57 | 50 | 44 | | 55 | 49 | 43 | | 54 | 48 | 43 | 41 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 52 | 44 | 38 | | 50 | 43 | 37 | | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 47 | 39 | 33 | | 45 | 38 | 33 | | 44 | 37 | 33 | 30 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | | 41 | 34 | 29 | | 40 | 34 | 29 | 27 |
| 9 | 54 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | | 38 | 31 | 26 | | 37 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | | 35 | 28 | 23 | | 34 | 28 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 4100 |
| 5° | 4116 |
| 10° | 4178 |
| 15° | 4245 |
| 20° | 4349 |
| 25° | 4463 |
| 30° | 4638 |
| 35° | 4869 |
| 40° | 5170 |
| 45° | 5463 |
| 50° | 5596 |
| 55° | 5563 |
| 60° | 5375 |
| 65° | 5000 |
| 70° | 4461 |
| 75° | 3784 |
| 80° | 2820 |
| 85° | 1441 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5596 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.2 | 2.6 |
| 10°-20° | 136.8 | 7.7 |
| 20°-30° | 220.6 | 12.4 |
| 30°-40° | 295.2 | 16.6 |
| 40°-50° | 349.2 | 19.7 |
| 50°-60° | 334.4 | 18.8 |
| 60°-70° | 246.6 | 13.9 |
| 70°-80° | 123.4 | 7.0 |
| 80°-90° | 22.2 | 1.2 |
| 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° | 403.6 | 22.7 |
| 0°-40° | 698.8 | 39.4 |
| 0°-60° | 1382.4 | 77.9 |
| 0°-90° | 1774.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1774.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 483 | |
| 5° | 483 | 46 |
| 15° | 483 | 137 |
| 25° | 477 | 221 |
| 35° | 470 | 295 |
| 45° | 455 | 349 |
| 55° | 376 | 334 |
| 65° | 249 | 247 |
| 75° | 115 | 123 |
| 85° | 15 | 22 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 483.2 |
| 2.5° | 483.2 |
| 5° | 483.2 |
| 7.5° | 483.2 |
| 10° | 484.9 |
| 12.5° | 483.2 |
| 15° | 483.2 |
| 17.5° | 481.6 |
| 20° | 481.6 |
| 22.5° | 478.3 |
| 25° | 476.6 |
| 27.5° | 475.0 |
| 30° | 473.3 |
| 32.5° | 471.7 |
| 35° | 470.0 |
| 37.5° | 468.4 |
| 40° | 466.7 |
| 42.5° | 463.4 |
| 45° | 455.2 |
| 47.5° | 442.0 |
| 50° | 423.9 |
| 52.5° | 400.8 |
| 55° | 376.0 |
| 57.5° | 348.0 |
| 60° | 316.7 |
| 62.5° | 283.7 |
| 65° | 249.0 |
| 67.5° | 216.1 |
| 70° | 179.8 |
| 72.5° | 148.4 |
| 75° | 115.4 |
| 77.5° | 85.8 |
| 80° | 57.7 |
| 82.5° | 34.6 |
| 85° | 14.8 |
| 87.5° | 3.3 |
| 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 | 18.60 | 20.30 | 18.97 | 20.62 | 20.93 | 18.60 | 20.30 | 18.97 | 20.62 | 20.93 |
| | 3H | 20.22 | 21.75 | 20.59 | 22.08 | 22.44 | 20.22 | 21.75 | 20.59 | 22.08 | 22.44 |
| | 4H | 20.74 | 22.19 | 21.13 | 22.53 | 22.91 | 20.74 | 22.19 | 21.13 | 22.53 | 22.91 |
| | 6H | 21.04 | 22.38 | 21.45 | 22.74 | 23.13 | 21.04 | 22.38 | 21.45 | 22.74 | 23.13 |
| | 8H | 21.10 | 22.38 | 21.52 | 22.77 | 23.17 | 21.10 | 22.38 | 21.52 | 22.77 | 23.17 |
| | 12H | 21.12 | 22.35 | 21.54 | 22.73 | 23.16 | 21.12 | 22.35 | 21.54 | 22.73 | 23.16 |
| 4H | 2H | 19.20 | 20.65 | 19.60 | 21.00 | 21.37 | 19.20 | 20.65 | 19.60 | 21.00 | 21.37 |
| | 3H | 21.01 | 22.23 | 21.42 | 22.62 | 23.02 | 21.01 | 22.23 | 21.42 | 22.62 | 23.02 |
| | 4H | 21.64 | 22.74 | 22.07 | 23.15 | 23.58 | 21.64 | 22.74 | 22.07 | 23.15 | 23.58 |
| | 6H | 22.03 | 22.99 | 22.49 | 23.43 | 23.88 | 22.03 | 22.99 | 22.49 | 23.43 | 23.88 |
| | 8H | 22.12 | 23.02 | 22.58 | 23.46 | 23.92 | 22.12 | 23.02 | 22.58 | 23.46 | 23.92 |
| | 12H | 22.16 | 22.96 | 22.64 | 23.44 | 23.90 | 22.16 | 22.96 | 22.64 | 23.44 | 23.90 |
| 8H | 4H | 21.88 | 22.77 | 22.34 | 23.21 | 23.68 | 21.88 | 22.77 | 22.34 | 23.21 | 23.68 |
| | 6H | 22.34 | 23.09 | 22.84 | 23.57 | 24.05 | 22.34 | 23.09 | 22.84 | 23.57 | 24.05 |
| | 8H | 22.47 | 23.13 | 22.97 | 23.64 | 24.12 | 22.47 | 23.13 | 22.97 | 23.64 | 24.12 |
| | 12H | 22.53 | 23.12 | 23.03 | 23.61 | 24.16 | 22.53 | 23.12 | 23.03 | 23.61 | 24.16 |
| 12H | 4H | 21.89 | 22.70 | 22.37 | 23.17 | 23.64 | 21.89 | 22.70 | 22.37 | 23.17 | 23.64 |
| | 6H | 22.36 | 23.03 | 22.87 | 23.53 | 24.02 | 22.36 | 23.03 | 22.87 | 23.53 | 24.02 |
| | 8H | 22.52 | 23.11 | 23.02 | 23.60 | 24.16 | 22.52 | 23.11 | 23.02 | 23.60 | 24.16 |