

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: P867160

Luminaire Tested: PRLX-2002-L-940-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-67L-G-X-X-BLAK-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

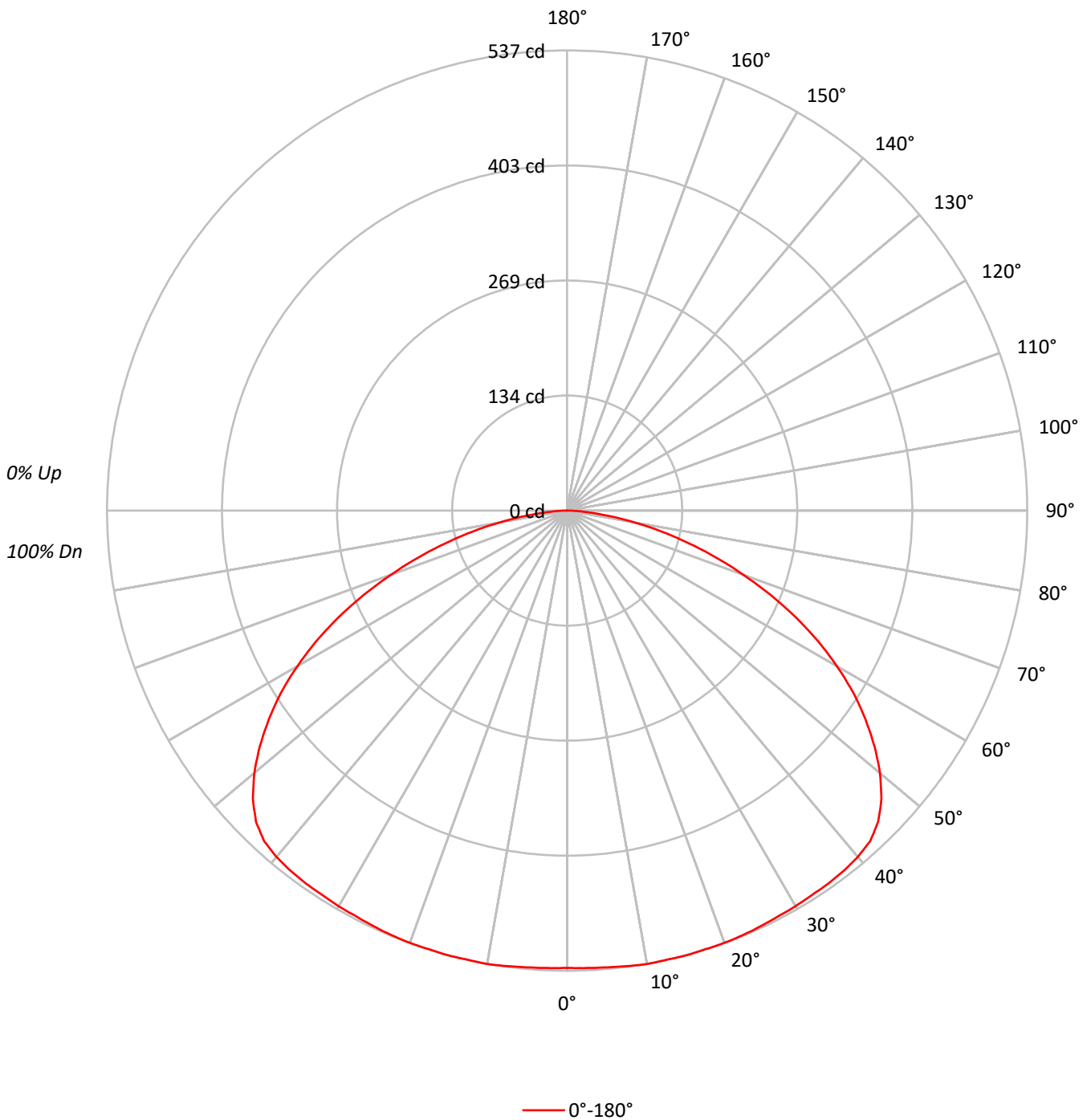
Lumens per Lamp: N/A
Luminaire Lumens: 2037.1 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (A_{in}): 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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | | 93 | 90 | 87 | | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | | 80 | 76 | 71 | | 77 | 73 | 70 | 68 |
| 3 | 89 | 77 | 69 | 62 | 86 | 76 | 68 | 61 | 73 | 66 | 60 | | 70 | 64 | 59 | | 67 | 62 | 58 | 56 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 56 | 51 | | 62 | 55 | 50 | | 59 | 54 | 49 | 47 |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 50 | 44 | 57 | 49 | 43 | | 55 | 48 | 43 | | 53 | 47 | 42 | 40 |
| 6 | 68 | 54 | 44 | 38 | 66 | 53 | 44 | 37 | 51 | 43 | 37 | | 49 | 42 | 37 | | 48 | 41 | 36 | 34 |
| 7 | 63 | 48 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 32 | | 44 | 37 | 32 | | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | | 41 | 34 | 28 | | 39 | 33 | 28 | 26 |
| 9 | 54 | 40 | 32 | 26 | 53 | 39 | 31 | 26 | 38 | 31 | 26 | | 37 | 30 | 25 | | 36 | 30 | 25 | 23 |
| 10 | 50 | 37 | 29 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | | 34 | 28 | 23 | | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 2633 |
| 5° | 2650 |
| 10° | 2692 |
| 15° | 2745 |
| 20° | 2818 |
| 25° | 2912 |
| 30° | 3037 |
| 35° | 3200 |
| 40° | 3398 |
| 45° | 3583 |
| 50° | 3659 |
| 55° | 3657 |
| 60° | 3590 |
| 65° | 3431 |
| 70° | 3151 |
| 75° | 2795 |
| 80° | 2284 |
| 85° | 1528 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3664 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.1 | 2.5 |
| 10°-20° | 152.2 | 7.5 |
| 20°-30° | 247.6 | 12.2 |
| 30°-40° | 333.4 | 16.4 |
| 40°-50° | 393.7 | 19.3 |
| 50°-60° | 378.9 | 18.6 |
| 60°-70° | 289.8 | 14.2 |
| 70°-80° | 155.6 | 7.6 |
| 80°-90° | 34.6 | 1.7 |
| 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° | 450.9 | 22.1 |
| 0°-40° | 784.4 | 38.5 |
| 0°-60° | 1557.0 | 76.4 |
| 0°-90° | 2037.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2037.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 534 | |
| 5° | 535 | 51 |
| 15° | 537 | 152 |
| 25° | 535 | 248 |
| 35° | 531 | 333 |
| 45° | 514 | 394 |
| 55° | 425 | 379 |
| 65° | 294 | 290 |
| 75° | 147 | 156 |
| 85° | 27 | 35 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 533.7 |
| 2.5° | 534.3 |
| 5° | 535.0 |
| 7.5° | 536.2 |
| 10° | 537.4 |
| 12.5° | 536.8 |
| 15° | 537.4 |
| 17.5° | 536.8 |
| 20° | 536.8 |
| 22.5° | 536.2 |
| 25° | 535.0 |
| 27.5° | 533.7 |
| 30° | 533.1 |
| 32.5° | 531.9 |
| 35° | 531.3 |
| 37.5° | 530.0 |
| 40° | 527.6 |
| 42.5° | 523.3 |
| 45° | 513.5 |
| 47.5° | 497.5 |
| 50° | 476.7 |
| 52.5° | 452.1 |
| 55° | 425.1 |
| 57.5° | 396.3 |
| 60° | 363.8 |
| 62.5° | 330.1 |
| 65° | 293.9 |
| 67.5° | 256.4 |
| 70° | 218.4 |
| 72.5° | 182.2 |
| 75° | 146.6 |
| 77.5° | 112.3 |
| 80° | 80.4 |
| 82.5° | 50.9 |
| 85° | 27.0 |
| 87.5° | 9.2 |
| 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 | 17.13 | 18.84 | 17.49 | 19.16 | 19.47 | 17.13 | 18.84 | 17.49 | 19.16 | 19.47 |
| | 3H | 18.88 | 20.43 | 19.26 | 20.76 | 21.12 | 18.88 | 20.43 | 19.26 | 20.76 | 21.12 |
| | 4H | 19.49 | 20.95 | 19.88 | 21.30 | 21.67 | 19.49 | 20.95 | 19.88 | 21.30 | 21.67 |
| | 6H | 19.88 | 21.24 | 20.29 | 21.61 | 22.00 | 19.88 | 21.24 | 20.29 | 21.61 | 22.00 |
| | 8H | 19.98 | 21.28 | 20.41 | 21.67 | 22.07 | 19.98 | 21.28 | 20.41 | 21.67 | 22.07 |
| | 12H | 20.03 | 21.28 | 20.46 | 21.66 | 22.09 | 20.03 | 21.28 | 20.46 | 21.66 | 22.09 |
| 4H | 2H | 17.78 | 19.24 | 18.17 | 19.59 | 19.96 | 17.78 | 19.24 | 18.17 | 19.59 | 19.96 |
| | 3H | 19.73 | 20.96 | 20.14 | 21.36 | 21.76 | 19.73 | 20.96 | 20.14 | 21.36 | 21.76 |
| | 4H | 20.45 | 21.57 | 20.88 | 21.98 | 22.41 | 20.45 | 21.57 | 20.88 | 21.98 | 22.41 |
| | 6H | 20.96 | 21.93 | 21.41 | 22.37 | 22.83 | 20.96 | 21.93 | 21.41 | 22.37 | 22.83 |
| | 8H | 21.09 | 22.01 | 21.55 | 22.45 | 22.91 | 21.09 | 22.01 | 21.55 | 22.45 | 22.91 |
| | 12H | 21.18 | 22.00 | 21.65 | 22.47 | 22.94 | 21.18 | 22.00 | 21.65 | 22.47 | 22.94 |
| 8H | 4H | 20.74 | 21.65 | 21.19 | 22.09 | 22.55 | 20.74 | 21.65 | 21.19 | 22.09 | 22.55 |
| | 6H | 21.34 | 22.10 | 21.83 | 22.58 | 23.06 | 21.34 | 22.10 | 21.83 | 22.58 | 23.06 |
| | 8H | 21.52 | 22.20 | 22.03 | 22.71 | 23.19 | 21.52 | 22.20 | 22.03 | 22.71 | 23.19 |
| | 12H | 21.65 | 22.25 | 22.15 | 22.74 | 23.30 | 21.65 | 22.25 | 22.15 | 22.74 | 23.30 |
| 12H | 4H | 20.76 | 21.59 | 21.24 | 22.06 | 22.53 | 20.76 | 21.59 | 21.24 | 22.06 | 22.53 |
| | 6H | 21.37 | 22.06 | 21.88 | 22.56 | 23.04 | 21.37 | 22.06 | 21.88 | 22.56 | 23.04 |
| | 8H | 21.61 | 22.21 | 22.11 | 22.70 | 23.26 | 21.61 | 22.21 | 22.11 | 22.70 | 23.26 |