

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: P866714

Luminaire Tested: PRLX-2001-L-927-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-67L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

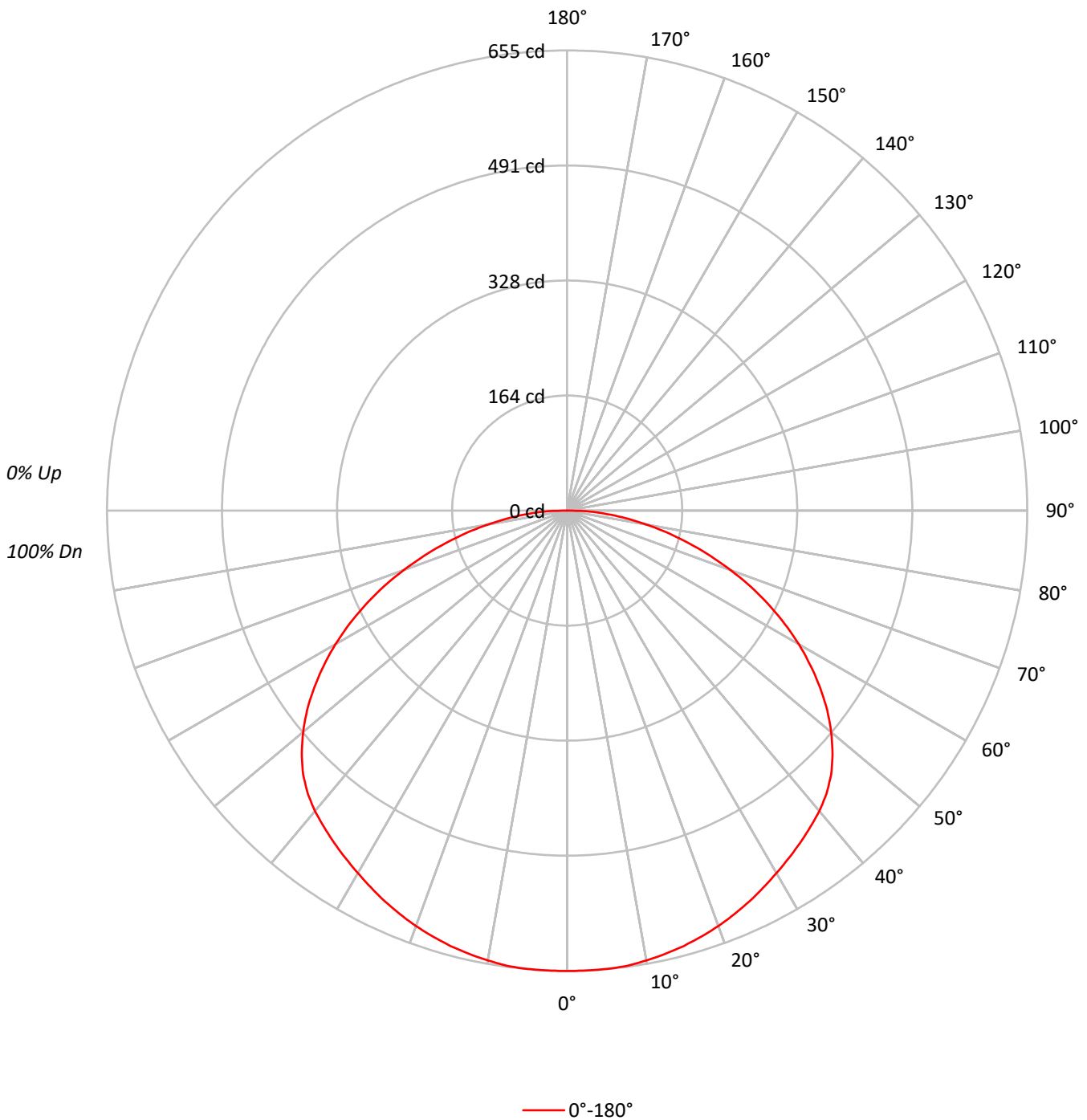
Lumens per Lamp: N/A
Luminaire Lumens: 2255.5 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.5 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 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | | 92 | 89 | 87 | | 88 | 86 | 84 | 82 |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | | 80 | 75 | 71 | | 77 | 73 | 69 | 67 |
| 3 | 88 | 77 | 68 | 62 | 86 | 75 | 67 | 61 | 72 | 66 | 60 | | 70 | 64 | 59 | | 67 | 62 | 58 | 55 |
| 4 | 80 | 68 | 59 | 51 | 78 | 66 | 58 | 51 | 64 | 56 | 50 | | 61 | 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 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | | 49 | 42 | 37 | | 48 | 41 | 37 | 34 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | | 45 | 38 | 32 | | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | | 41 | 34 | 29 | | 40 | 33 | 29 | 27 |
| 9 | 54 | 40 | 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° | 3583 |
| 5° | 3594 |
| 10° | 3609 |
| 15° | 3631 |
| 20° | 3661 |
| 25° | 3703 |
| 30° | 3762 |
| 35° | 3856 |
| 40° | 3986 |
| 45° | 4109 |
| 50° | 4173 |
| 55° | 4190 |
| 60° | 4167 |
| 65° | 4092 |
| 70° | 3951 |
| 75° | 3783 |
| 80° | 3598 |
| 85° | 3569 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4191 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.4 | 2.8 |
| 10°-20° | 181.4 | 8.0 |
| 20°-30° | 283.4 | 12.6 |
| 30°-40° | 362.3 | 16.1 |
| 40°-50° | 408.8 | 18.1 |
| 50°-60° | 392.2 | 17.4 |
| 60°-70° | 312.4 | 13.9 |
| 70°-80° | 189.7 | 8.4 |
| 80°-90° | 62.9 | 2.8 |
| 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° | 527.2 | 23.4 |
| 0°-40° | 889.5 | 39.4 |
| 0°-60° | 1690.5 | 75.0 |
| 0°-90° | 2255.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2255.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 655 | |
| 5° | 655 | 62 |
| 15° | 642 | 181 |
| 25° | 614 | 283 |
| 35° | 578 | 362 |
| 45° | 532 | 409 |
| 55° | 440 | 392 |
| 65° | 316 | 312 |
| 75° | 179 | 190 |
| 85° | 57 | 63 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 655.4 |
| 2.5° | 655.4 |
| 5° | 654.9 |
| 7.5° | 653.8 |
| 10° | 650.1 |
| 12.5° | 646.3 |
| 15° | 641.6 |
| 17.5° | 635.7 |
| 20° | 629.3 |
| 22.5° | 621.9 |
| 25° | 613.9 |
| 27.5° | 604.9 |
| 30° | 595.9 |
| 32.5° | 586.8 |
| 35° | 577.8 |
| 37.5° | 568.2 |
| 40° | 558.6 |
| 42.5° | 546.4 |
| 45° | 531.5 |
| 47.5° | 512.4 |
| 50° | 490.6 |
| 52.5° | 466.7 |
| 55° | 439.6 |
| 57.5° | 410.9 |
| 60° | 381.1 |
| 62.5° | 349.2 |
| 65° | 316.3 |
| 67.5° | 282.8 |
| 70° | 247.2 |
| 72.5° | 213.1 |
| 75° | 179.1 |
| 77.5° | 146.2 |
| 80° | 114.3 |
| 82.5° | 84.5 |
| 85° | 56.9 |
| 87.5° | 32.4 |
| 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 | 17.39 | 19.10 | 17.76 | 19.42 | 19.73 | 17.39 | 19.10 | 17.76 | 19.42 | 19.73 |
| | 3H | 19.35 | 20.91 | 19.73 | 21.23 | 21.59 | 19.35 | 20.91 | 19.73 | 21.23 | 21.59 |
| | 4H | 20.11 | 21.58 | 20.51 | 21.93 | 22.30 | 20.11 | 21.58 | 20.51 | 21.93 | 22.30 |
| | 6H | 20.71 | 22.08 | 21.12 | 22.44 | 22.83 | 20.71 | 22.08 | 21.12 | 22.44 | 22.83 |
| | 8H | 20.93 | 22.24 | 21.35 | 22.62 | 23.02 | 20.93 | 22.24 | 21.35 | 22.62 | 23.02 |
| | 12H | 21.10 | 22.35 | 21.53 | 22.74 | 23.16 | 21.10 | 22.35 | 21.53 | 22.74 | 23.16 |
| 4H | 2H | 18.08 | 19.55 | 18.48 | 19.90 | 20.27 | 18.08 | 19.55 | 18.48 | 19.90 | 20.27 |
| | 3H | 20.26 | 21.51 | 20.67 | 21.90 | 22.30 | 20.26 | 21.51 | 20.67 | 21.90 | 22.30 |
| | 4H | 21.16 | 22.29 | 21.59 | 22.70 | 23.13 | 21.16 | 22.29 | 21.59 | 22.70 | 23.13 |
| | 6H | 21.90 | 22.89 | 22.35 | 23.33 | 23.78 | 21.90 | 22.89 | 22.35 | 23.33 | 23.78 |
| | 8H | 22.18 | 23.11 | 22.64 | 23.55 | 24.01 | 22.18 | 23.11 | 22.64 | 23.55 | 24.01 |
| | 12H | 22.41 | 23.25 | 22.89 | 23.72 | 24.19 | 22.41 | 23.25 | 22.89 | 23.72 | 24.19 |
| 8H | 4H | 21.53 | 22.45 | 21.98 | 22.89 | 23.36 | 21.53 | 22.45 | 21.98 | 22.89 | 23.36 |
| | 6H | 22.41 | 23.19 | 22.90 | 23.67 | 24.14 | 22.41 | 23.19 | 22.90 | 23.67 | 24.14 |
| | 8H | 22.78 | 23.47 | 23.28 | 23.98 | 24.46 | 22.78 | 23.47 | 23.28 | 23.98 | 24.46 |
| | 12H | 23.11 | 23.73 | 23.61 | 24.21 | 24.77 | 23.11 | 23.73 | 23.61 | 24.21 | 24.77 |
| 12H | 4H | 21.58 | 22.42 | 22.06 | 22.89 | 23.36 | 21.58 | 22.42 | 22.06 | 22.89 | 23.36 |
| | 6H | 22.49 | 23.19 | 23.00 | 23.69 | 24.18 | 22.49 | 23.19 | 23.00 | 23.69 | 24.18 |
| | 8H | 22.93 | 23.55 | 23.43 | 24.04 | 24.59 | 22.93 | 23.55 | 23.43 | 24.04 | 24.59 |