

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: P866710

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-67L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

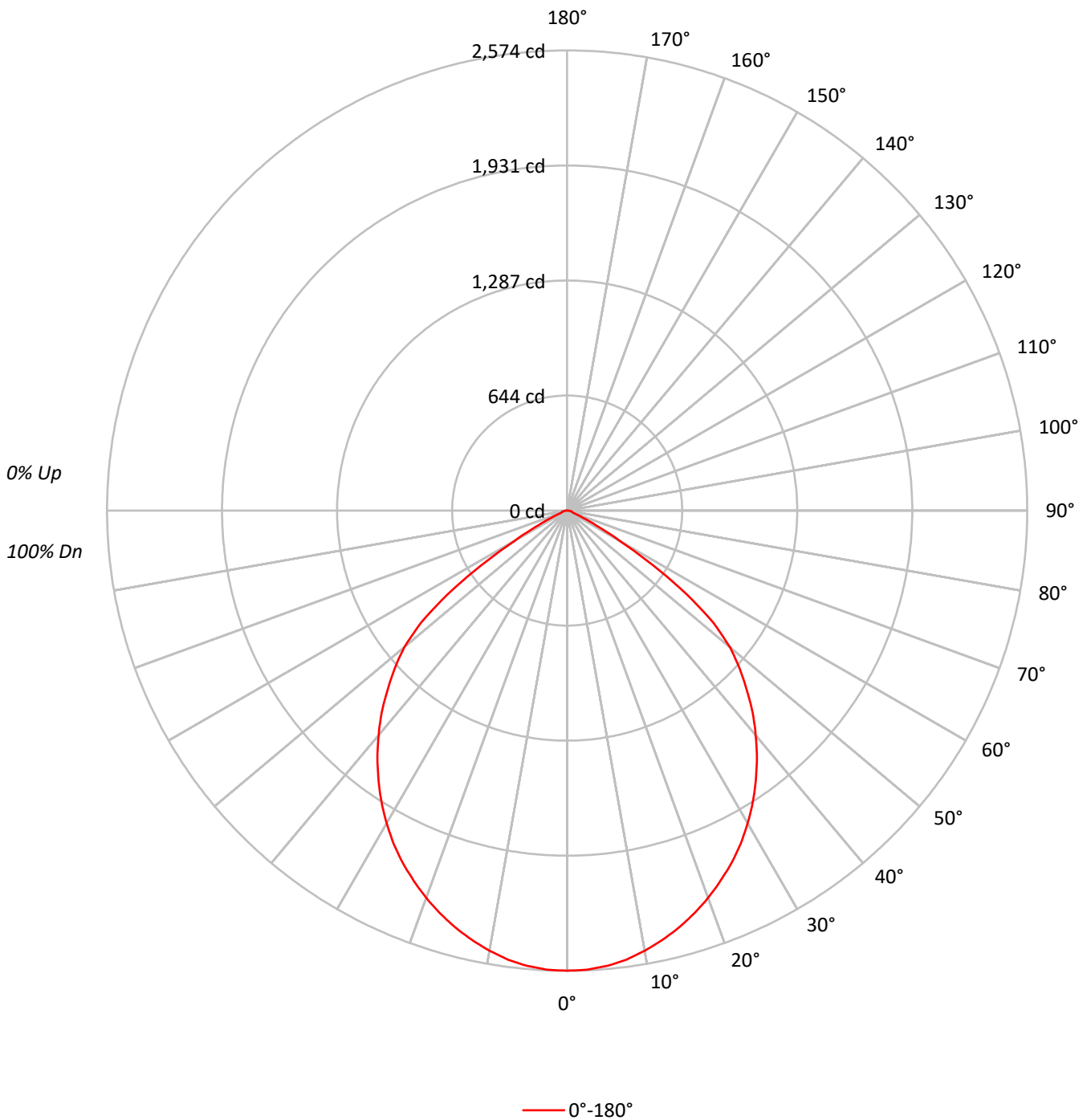
Lumens per Lamp: N/A
Luminaire Lumens: 5054.9 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 91 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 70 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 6 | 77 | 65 | 57 | 52 | 75 | 64 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 54 | 50 | 49 |
| 7 | 72 | 60 | 52 | 46 | 70 | 59 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 44 |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 9 | 63 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 37 | 47 | 41 | 37 | 36 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 14070 |
| 5° | 14030 |
| 10° | 13877 |
| 15° | 13667 |
| 20° | 13412 |
| 25° | 13120 |
| 30° | 12750 |
| 35° | 12281 |
| 40° | 11710 |
| 45° | 10997 |
| 50° | 10104 |
| 55° | 7802 |
| 60° | 3772 |
| 65° | 1423 |
| 70° | 561 |
| 75° | 617 |
| 80° | 702 |
| 85° | 803 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10997 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 242.2 | 4.8 |
| 10°-20° | 680.4 | 13.5 |
| 20°-30° | 1000.7 | 19.8 |
| 30°-40° | 1149.3 | 22.7 |
| 40°-50° | 1095.5 | 21.7 |
| 50°-60° | 707.2 | 14.0 |
| 60°-70° | 135.9 | 2.7 |
| 70°-80° | 30.6 | 0.6 |
| 80°-90° | 13.2 | 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° | 1923.3 | 38.0 |
| 0°-40° | 3072.5 | 60.8 |
| 0°-60° | 4875.3 | 96.4 |
| 0°-90° | 5054.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5054.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2574 | |
| 5° | 2557 | 242 |
| 15° | 2415 | 680 |
| 25° | 2175 | 1001 |
| 35° | 1840 | 1149 |
| 45° | 1422 | 1096 |
| 55° | 819 | 707 |
| 65° | 110 | 136 |
| 75° | 29 | 31 |
| 85° | 13 | 13 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2573.7 |
| 2.5° | 2570.5 |
| 5° | 2556.7 |
| 7.5° | 2533.3 |
| 10° | 2499.8 |
| 12.5° | 2460.0 |
| 15° | 2414.8 |
| 17.5° | 2362.7 |
| 20° | 2305.3 |
| 22.5° | 2242.0 |
| 25° | 2175.0 |
| 27.5° | 2101.2 |
| 30° | 2019.8 |
| 32.5° | 1932.7 |
| 35° | 1840.2 |
| 37.5° | 1744.0 |
| 40° | 1640.9 |
| 42.5° | 1537.2 |
| 45° | 1422.4 |
| 47.5° | 1309.2 |
| 50° | 1188.0 |
| 52.5° | 1031.2 |
| 55° | 818.6 |
| 57.5° | 570.3 |
| 60° | 345.0 |
| 62.5° | 197.7 |
| 65° | 110.0 |
| 67.5° | 57.4 |
| 70° | 35.1 |
| 72.5° | 31.9 |
| 75° | 29.2 |
| 77.5° | 26.0 |
| 80° | 22.3 |
| 82.5° | 18.1 |
| 85° | 12.8 |
| 87.5° | 6.4 |
| 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 | 17.09 | 18.49 | 17.45 | 18.80 | 19.12 | 17.09 | 18.49 | 17.45 | 18.80 | 19.12 |
| | 3H | 17.01 | 18.25 | 17.39 | 18.58 | 18.94 | 17.01 | 18.25 | 17.39 | 18.58 | 18.94 |
| | 4H | 16.97 | 18.11 | 17.37 | 18.46 | 18.85 | 16.97 | 18.11 | 17.37 | 18.46 | 18.85 |
| | 6H | 16.92 | 17.98 | 17.34 | 18.35 | 18.74 | 16.92 | 17.98 | 17.34 | 18.35 | 18.74 |
| | 8H | 16.90 | 17.90 | 17.33 | 18.29 | 18.69 | 16.90 | 17.90 | 17.33 | 18.29 | 18.69 |
| | 12H | 16.88 | 17.83 | 17.31 | 18.21 | 18.64 | 16.88 | 17.83 | 17.31 | 18.21 | 18.64 |
| 4H | 2H | 16.97 | 18.12 | 17.37 | 18.47 | 18.85 | 16.97 | 18.12 | 17.37 | 18.47 | 18.85 |
| | 3H | 16.91 | 17.84 | 17.32 | 18.24 | 18.64 | 16.91 | 17.84 | 17.32 | 18.24 | 18.64 |
| | 4H | 16.86 | 17.69 | 17.30 | 18.10 | 18.55 | 16.86 | 17.69 | 17.30 | 18.10 | 18.55 |
| | 6H | 16.84 | 17.55 | 17.30 | 17.99 | 18.46 | 16.84 | 17.55 | 17.30 | 17.99 | 18.46 |
| | 8H | 16.81 | 17.47 | 17.28 | 17.92 | 18.39 | 16.81 | 17.47 | 17.28 | 17.92 | 18.39 |
| | 12H | 16.79 | 17.38 | 17.28 | 17.86 | 18.34 | 16.79 | 17.38 | 17.28 | 17.86 | 18.34 |
| 8H | 4H | 16.75 | 17.42 | 17.22 | 17.86 | 18.33 | 16.75 | 17.42 | 17.22 | 17.86 | 18.33 |
| | 6H | 16.72 | 17.27 | 17.22 | 17.76 | 18.25 | 16.72 | 17.27 | 17.22 | 17.76 | 18.25 |
| | 8H | 16.70 | 17.20 | 17.22 | 17.71 | 18.20 | 16.70 | 17.20 | 17.22 | 17.71 | 18.20 |
| | 12H | 16.70 | 17.15 | 17.22 | 17.64 | 18.21 | 16.70 | 17.15 | 17.22 | 17.64 | 18.21 |
| 12H | 4H | 16.71 | 17.30 | 17.20 | 17.78 | 18.26 | 16.71 | 17.30 | 17.20 | 17.78 | 18.26 |
| | 6H | 16.67 | 17.17 | 17.19 | 17.68 | 18.17 | 16.67 | 17.17 | 17.19 | 17.68 | 18.17 |
| | 8H | 16.67 | 17.12 | 17.19 | 17.61 | 18.18 | 16.67 | 17.12 | 17.19 | 17.61 | 18.18 |