

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: P865946

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-65L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

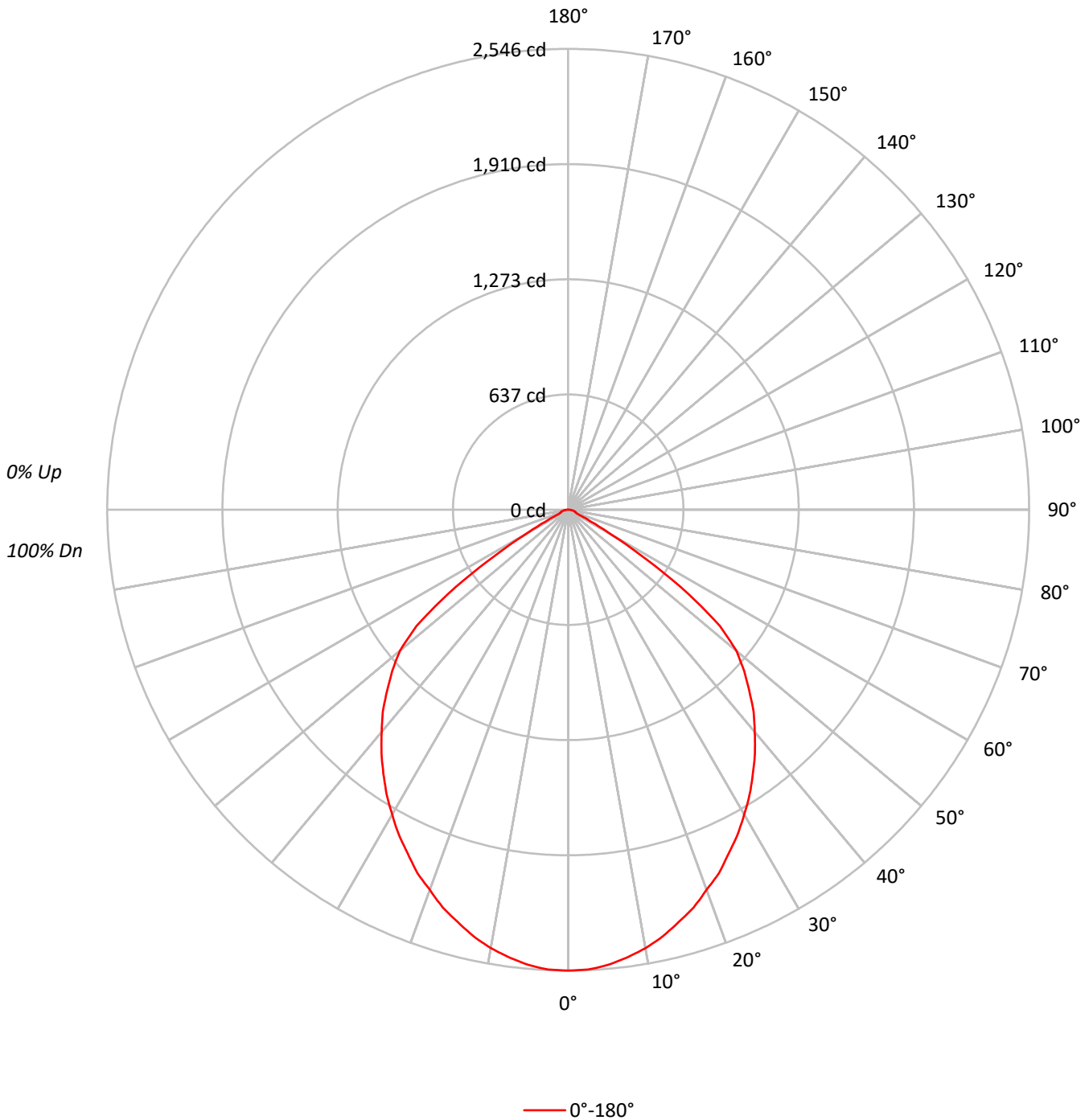
Lumens per Lamp: N/A
Luminaire Lumens: 4919.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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 | 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 | 85 | 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 | 70 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 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 | 55 |
| 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 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 44 |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 9 | 63 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 36 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 39 | 34 | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 21609 |
| 5° | 21509 |
| 10° | 21189 |
| 15° | 20719 |
| 20° | 20181 |
| 25° | 19627 |
| 30° | 19054 |
| 35° | 18435 |
| 40° | 17759 |
| 45° | 16962 |
| 50° | 16003 |
| 55° | 11981 |
| 60° | 4730 |
| 65° | 1291 |
| 70° | 1104 |
| 75° | 1190 |
| 80° | 1290 |
| 85° | 1285 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16962 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 238.9 | 4.9 |
| 10°-20° | 664.6 | 13.5 |
| 20°-30° | 966.3 | 19.6 |
| 30°-40° | 1112.8 | 22.6 |
| 40°-50° | 1090.6 | 22.2 |
| 50°-60° | 692.9 | 14.1 |
| 60°-70° | 100.9 | 2.1 |
| 70°-80° | 38.1 | 0.8 |
| 80°-90° | 14.4 | 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° | 1869.8 | 38.0 |
| 0°-40° | 2982.6 | 60.6 |
| 0°-60° | 4766.1 | 96.9 |
| 0°-90° | 4919.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4919.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2546 | |
| 5° | 2525 | 239 |
| 15° | 2358 | 665 |
| 25° | 2096 | 966 |
| 35° | 1780 | 1113 |
| 45° | 1413 | 1091 |
| 55° | 810 | 693 |
| 65° | 64 | 101 |
| 75° | 36 | 38 |
| 85° | 13 | 14 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2546.4 |
| 2.5° | 2543.1 |
| 5° | 2525.0 |
| 7.5° | 2495.3 |
| 10° | 2459.0 |
| 12.5° | 2414.5 |
| 15° | 2358.4 |
| 17.5° | 2304.0 |
| 20° | 2234.7 |
| 22.5° | 2173.7 |
| 25° | 2096.2 |
| 27.5° | 2025.3 |
| 30° | 1944.5 |
| 32.5° | 1865.3 |
| 35° | 1779.5 |
| 37.5° | 1693.8 |
| 40° | 1603.1 |
| 42.5° | 1515.7 |
| 45° | 1413.4 |
| 47.5° | 1317.7 |
| 50° | 1212.2 |
| 52.5° | 1055.5 |
| 55° | 809.8 |
| 57.5° | 516.2 |
| 60° | 278.7 |
| 62.5° | 140.2 |
| 65° | 64.3 |
| 67.5° | 46.2 |
| 70° | 44.5 |
| 72.5° | 41.2 |
| 75° | 36.3 |
| 77.5° | 31.3 |
| 80° | 26.4 |
| 82.5° | 19.8 |
| 85° | 13.2 |
| 87.5° | 6.6 |
| 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 | 17.98 | 19.39 | 18.35 | 19.70 | 20.01 | 17.98 | 19.39 | 18.35 | 19.70 | 20.01 |
| | 3H | 17.92 | 19.15 | 18.29 | 19.48 | 19.84 | 17.92 | 19.15 | 18.29 | 19.48 | 19.84 |
| | 4H | 17.89 | 19.04 | 18.29 | 19.39 | 19.77 | 17.89 | 19.04 | 18.29 | 19.39 | 19.77 |
| | 6H | 17.87 | 18.92 | 18.28 | 19.29 | 19.68 | 17.87 | 18.92 | 18.28 | 19.29 | 19.68 |
| | 8H | 17.85 | 18.85 | 18.28 | 19.24 | 19.64 | 17.85 | 18.85 | 18.28 | 19.24 | 19.64 |
| | 12H | 17.83 | 18.79 | 18.27 | 19.17 | 19.60 | 17.83 | 18.79 | 18.27 | 19.17 | 19.60 |
| 4H | 2H | 17.82 | 18.97 | 18.23 | 19.32 | 19.70 | 17.82 | 18.97 | 18.23 | 19.32 | 19.70 |
| | 3H | 17.79 | 18.71 | 18.20 | 19.11 | 19.52 | 17.79 | 18.71 | 18.20 | 19.11 | 19.52 |
| | 4H | 17.77 | 18.60 | 18.21 | 19.01 | 19.46 | 17.77 | 18.60 | 18.21 | 19.01 | 19.46 |
| | 6H | 17.79 | 18.49 | 18.25 | 18.94 | 19.41 | 17.79 | 18.49 | 18.25 | 18.94 | 19.41 |
| | 8H | 17.77 | 18.44 | 18.24 | 18.88 | 19.35 | 17.77 | 18.44 | 18.24 | 18.88 | 19.35 |
| | 12H | 17.77 | 18.36 | 18.25 | 18.84 | 19.31 | 17.77 | 18.36 | 18.25 | 18.84 | 19.31 |
| 8H | 4H | 17.68 | 18.34 | 18.15 | 18.79 | 19.26 | 17.68 | 18.34 | 18.15 | 18.79 | 19.26 |
| | 6H | 17.70 | 18.25 | 18.20 | 18.75 | 19.23 | 17.70 | 18.25 | 18.20 | 18.75 | 19.23 |
| | 8H | 17.70 | 18.20 | 18.22 | 18.72 | 19.21 | 17.70 | 18.20 | 18.22 | 18.72 | 19.21 |
| | 12H | 17.72 | 18.17 | 18.23 | 18.66 | 19.23 | 17.72 | 18.17 | 18.23 | 18.66 | 19.23 |
| 12H | 4H | 17.64 | 18.23 | 18.13 | 18.71 | 19.19 | 17.64 | 18.23 | 18.13 | 18.71 | 19.19 |
| | 6H | 17.65 | 18.15 | 18.17 | 18.67 | 19.16 | 17.65 | 18.15 | 18.17 | 18.67 | 19.16 |
| | 8H | 17.68 | 18.13 | 18.20 | 18.63 | 19.20 | 17.68 | 18.13 | 18.20 | 18.63 | 19.20 |