

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: P866747

Luminaire Tested: PRLX-2001-L-930-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-133L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

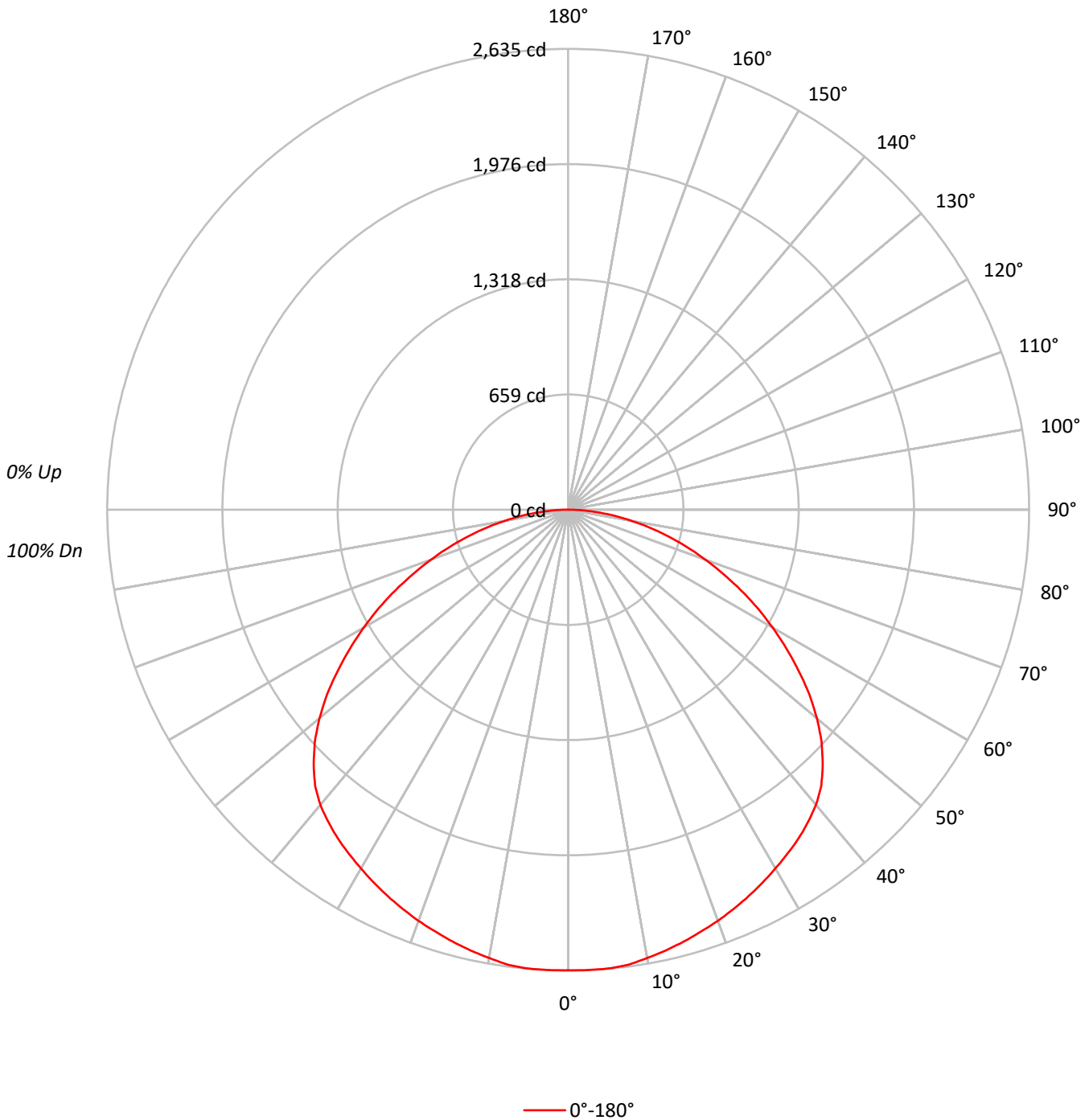
Lumens per Lamp: N/A
Luminaire Lumens: 8455.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: 0.333 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 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 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 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 60 | 68 | 64 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 48 |
| 5 | 75 | 62 | 52 | 45 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 42 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 32 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 31 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 14399 |
| 5° | 14454 |
| 10° | 14449 |
| 15° | 14470 |
| 20° | 14552 |
| 25° | 14712 |
| 30° | 14953 |
| 35° | 15316 |
| 40° | 15727 |
| 45° | 15906 |
| 50° | 15781 |
| 55° | 15333 |
| 60° | 14752 |
| 65° | 14082 |
| 70° | 13327 |
| 75° | 12519 |
| 80° | 11655 |
| 85° | 10419 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15906 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 250.5 | 3.0 |
| 10°-20° | 722.7 | 8.5 |
| 20°-30° | 1126.4 | 13.3 |
| 30°-40° | 1437.6 | 17.0 |
| 40°-50° | 1582.4 | 18.7 |
| 50°-60° | 1437.7 | 17.0 |
| 60°-70° | 1078.6 | 12.8 |
| 70°-80° | 630.4 | 7.5 |
| 80°-90° | 188.7 | 2.2 |
| 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° | 2099.5 | 24.8 |
| 0°-40° | 3537.1 | 41.8 |
| 0°-60° | 6557.3 | 77.6 |
| 0°-90° | 8455.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8455.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2634 | |
| 5° | 2634 | 250 |
| 15° | 2557 | 723 |
| 25° | 2439 | 1126 |
| 35° | 2295 | 1438 |
| 45° | 2057 | 1582 |
| 55° | 1609 | 1438 |
| 65° | 1089 | 1079 |
| 75° | 593 | 630 |
| 85° | 166 | 189 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2633.9 |
| 2.5° | 2635.0 |
| 5° | 2633.9 |
| 7.5° | 2624.7 |
| 10° | 2602.8 |
| 12.5° | 2580.8 |
| 15° | 2556.6 |
| 17.5° | 2529.0 |
| 20° | 2501.3 |
| 22.5° | 2471.3 |
| 25° | 2439.0 |
| 27.5° | 2404.4 |
| 30° | 2368.7 |
| 32.5° | 2332.9 |
| 35° | 2294.9 |
| 37.5° | 2252.2 |
| 40° | 2203.8 |
| 42.5° | 2141.5 |
| 45° | 2057.3 |
| 47.5° | 1963.9 |
| 50° | 1855.5 |
| 52.5° | 1737.9 |
| 55° | 1608.7 |
| 57.5° | 1480.7 |
| 60° | 1349.2 |
| 62.5° | 1221.2 |
| 65° | 1088.6 |
| 67.5° | 958.3 |
| 70° | 833.8 |
| 72.5° | 713.8 |
| 75° | 592.7 |
| 77.5° | 482.0 |
| 80° | 370.2 |
| 82.5° | 265.2 |
| 85° | 166.1 |
| 87.5° | 77.3 |
| 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 | 21.74 | 23.42 | 22.11 | 23.73 | 24.05 | 21.74 | 23.42 | 22.11 | 23.73 | 24.05 |
| | 3H | 23.52 | 25.04 | 23.89 | 25.36 | 25.72 | 23.52 | 25.04 | 23.89 | 25.36 | 25.72 |
| | 4H | 24.20 | 25.64 | 24.60 | 25.98 | 26.36 | 24.20 | 25.64 | 24.60 | 25.98 | 26.36 |
| | 6H | 24.74 | 26.07 | 25.15 | 26.43 | 26.82 | 24.74 | 26.07 | 25.15 | 26.43 | 26.82 |
| | 8H | 24.92 | 26.19 | 25.34 | 26.58 | 26.98 | 24.92 | 26.19 | 25.34 | 26.58 | 26.98 |
| | 12H | 25.05 | 26.27 | 25.47 | 26.65 | 27.07 | 25.05 | 26.27 | 25.47 | 26.65 | 27.07 |
| 4H | 2H | 22.37 | 23.80 | 22.77 | 24.15 | 24.53 | 22.37 | 23.80 | 22.77 | 24.15 | 24.53 |
| | 3H | 24.37 | 25.58 | 24.78 | 25.98 | 26.37 | 24.37 | 25.58 | 24.78 | 25.98 | 26.37 |
| | 4H | 25.19 | 26.28 | 25.62 | 26.70 | 27.13 | 25.19 | 26.28 | 25.62 | 26.70 | 27.13 |
| | 6H | 25.86 | 26.82 | 26.32 | 27.26 | 27.71 | 25.86 | 26.82 | 26.32 | 27.26 | 27.71 |
| | 8H | 26.10 | 27.00 | 26.56 | 27.44 | 27.90 | 26.10 | 27.00 | 26.56 | 27.44 | 27.90 |
| | 12H | 26.28 | 27.08 | 26.76 | 27.56 | 28.03 | 26.28 | 27.08 | 26.76 | 27.56 | 28.03 |
| 8H | 4H | 25.52 | 26.42 | 25.98 | 26.86 | 27.33 | 25.52 | 26.42 | 25.98 | 26.86 | 27.33 |
| | 6H | 26.33 | 27.07 | 26.82 | 27.56 | 28.03 | 26.33 | 27.07 | 26.82 | 27.56 | 28.03 |
| | 8H | 26.64 | 27.31 | 27.15 | 27.82 | 28.30 | 26.64 | 27.31 | 27.15 | 27.82 | 28.30 |
| | 12H | 26.90 | 27.50 | 27.41 | 27.99 | 28.54 | 26.90 | 27.50 | 27.41 | 27.99 | 28.54 |
| 12H | 4H | 25.57 | 26.37 | 26.05 | 26.85 | 27.32 | 25.57 | 26.37 | 26.05 | 26.85 | 27.32 |
| | 6H | 26.39 | 27.07 | 26.90 | 27.57 | 28.06 | 26.39 | 27.07 | 26.90 | 27.57 | 28.06 |
| | 8H | 26.77 | 27.37 | 27.28 | 27.86 | 28.41 | 26.77 | 27.37 | 27.28 | 27.86 | 28.41 |