

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: P866841

Luminaire Tested: PRLX-2001-L-935-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-67L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

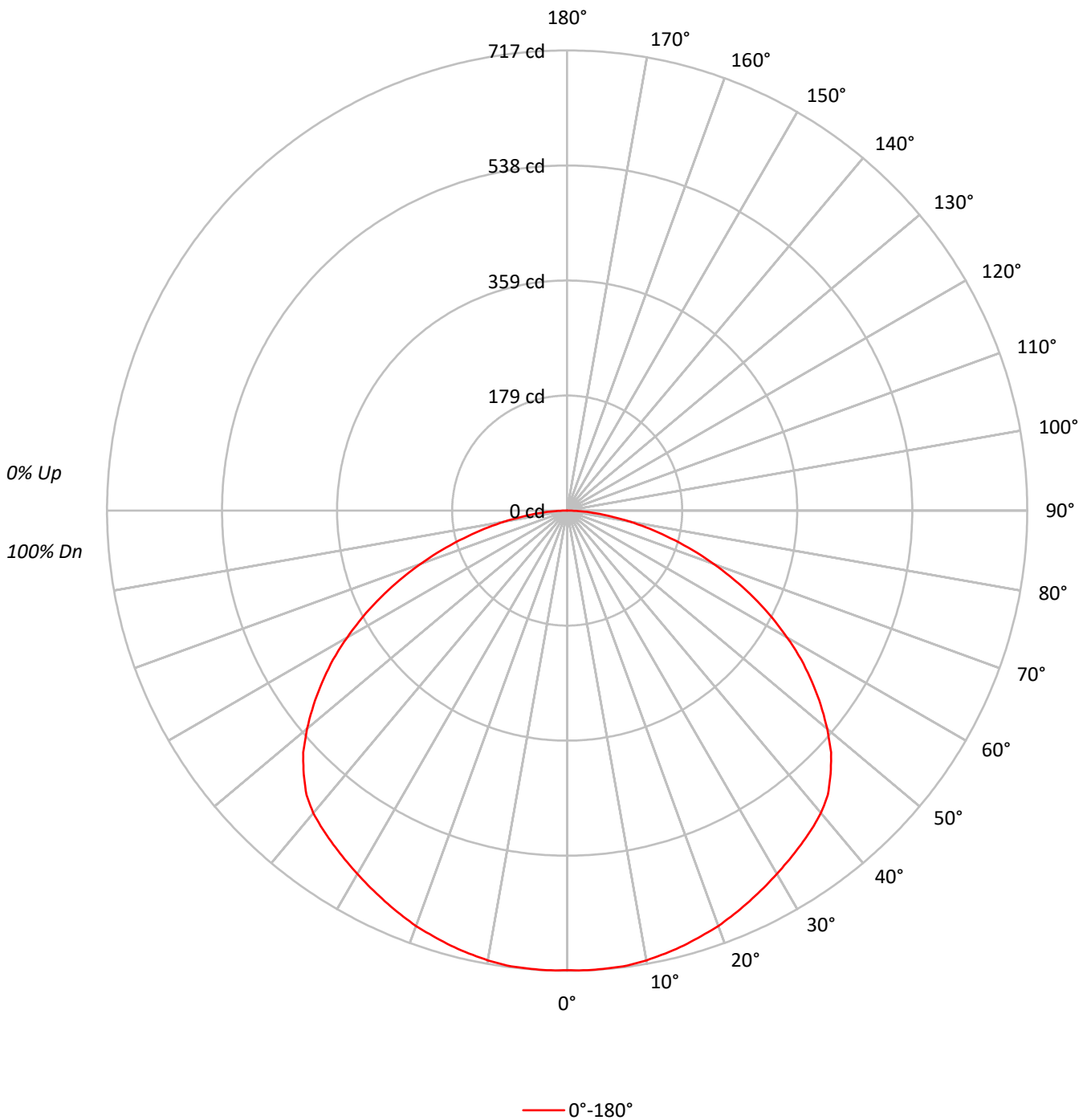
Lumens per Lamp: N/A
Luminaire Lumens: 2380.6 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 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 | 82 | 76 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | | 81 | 76 | 72 | | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 62 | 74 | 67 | 61 | | 71 | 65 | 60 | | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 58 | 52 | | 63 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | | 56 | 49 | 44 | | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | | 50 | 43 | 38 | | 49 | 43 | 38 | 36 |
| 7 | 63 | 50 | 40 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | | 46 | 39 | 34 | | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | | 42 | 35 | 30 | | 40 | 34 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 53 | 41 | 33 | 27 | 39 | 32 | 27 | | 38 | 32 | 27 | | 37 | 31 | 27 | 25 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | | 35 | 29 | 24 | | 34 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 3916 |
| 5° | 3931 |
| 10° | 3950 |
| 15° | 3971 |
| 20° | 4007 |
| 25° | 4052 |
| 30° | 4125 |
| 35° | 4239 |
| 40° | 4391 |
| 45° | 4489 |
| 50° | 4498 |
| 55° | 4442 |
| 60° | 4331 |
| 65° | 4150 |
| 70° | 3879 |
| 75° | 3525 |
| 80° | 3126 |
| 85° | 2540 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 4513 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.2 | 2.9 |
| 10°-20° | 198.4 | 8.3 |
| 20°-30° | 310.4 | 13.0 |
| 30°-40° | 398.4 | 16.7 |
| 40°-50° | 446.6 | 18.8 |
| 50°-60° | 415.9 | 17.5 |
| 60°-70° | 317.0 | 13.3 |
| 70°-80° | 178.0 | 7.5 |
| 80°-90° | 47.7 | 2.0 |
| 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° | 577.0 | 24.2 |
| 0°-40° | 975.4 | 41.0 |
| 0°-60° | 1837.9 | 77.2 |
| 0°-90° | 2380.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2380.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 716 | |
| 5° | 716 | 68 |
| 15° | 702 | 198 |
| 25° | 672 | 310 |
| 35° | 635 | 398 |
| 45° | 581 | 447 |
| 55° | 466 | 416 |
| 65° | 321 | 317 |
| 75° | 167 | 178 |
| 85° | 40 | 48 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 716.3 |
| 2.5° | 716.9 |
| 5° | 716.3 |
| 7.5° | 715.2 |
| 10° | 711.6 |
| 12.5° | 706.9 |
| 15° | 701.6 |
| 17.5° | 695.2 |
| 20° | 688.7 |
| 22.5° | 680.5 |
| 25° | 671.7 |
| 27.5° | 662.9 |
| 30° | 653.5 |
| 32.5° | 644.6 |
| 35° | 635.2 |
| 37.5° | 625.8 |
| 40° | 615.3 |
| 42.5° | 601.2 |
| 45° | 580.6 |
| 47.5° | 557.7 |
| 50° | 528.9 |
| 52.5° | 498.3 |
| 55° | 466.0 |
| 57.5° | 432.5 |
| 60° | 396.1 |
| 62.5° | 359.0 |
| 65° | 320.8 |
| 67.5° | 282.1 |
| 70° | 242.7 |
| 72.5° | 205.1 |
| 75° | 166.9 |
| 77.5° | 132.2 |
| 80° | 99.3 |
| 82.5° | 67.6 |
| 85° | 40.5 |
| 87.5° | 17.6 |
| 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 | 17.58 | 19.27 | 17.95 | 19.59 | 19.90 | 17.58 | 19.27 | 17.95 | 19.59 | 19.90 |
| | 3H | 19.37 | 20.90 | 19.75 | 21.22 | 21.58 | 19.37 | 20.90 | 19.75 | 21.22 | 21.58 |
| | 4H | 20.01 | 21.46 | 20.41 | 21.80 | 22.18 | 20.01 | 21.46 | 20.41 | 21.80 | 22.18 |
| | 6H | 20.48 | 21.82 | 20.89 | 22.18 | 22.57 | 20.48 | 21.82 | 20.89 | 22.18 | 22.57 |
| | 8H | 20.62 | 21.90 | 21.05 | 22.29 | 22.69 | 20.62 | 21.90 | 21.05 | 22.29 | 22.69 |
| | 12H | 20.72 | 21.94 | 21.14 | 22.32 | 22.75 | 20.72 | 21.94 | 21.14 | 22.32 | 22.75 |
| 4H | 2H | 18.23 | 19.67 | 18.62 | 20.01 | 20.39 | 18.23 | 19.67 | 18.62 | 20.01 | 20.39 |
| | 3H | 20.22 | 21.44 | 20.63 | 21.83 | 22.23 | 20.22 | 21.44 | 20.63 | 21.83 | 22.23 |
| | 4H | 20.99 | 22.09 | 21.42 | 22.50 | 22.94 | 20.99 | 22.09 | 21.42 | 22.50 | 22.94 |
| | 6H | 21.58 | 22.54 | 22.04 | 22.98 | 23.44 | 21.58 | 22.54 | 22.04 | 22.98 | 23.44 |
| | 8H | 21.77 | 22.67 | 22.23 | 23.11 | 23.58 | 21.77 | 22.67 | 22.23 | 23.11 | 23.58 |
| | 12H | 21.91 | 22.72 | 22.38 | 23.19 | 23.66 | 21.91 | 22.72 | 22.38 | 23.19 | 23.66 |
| 8H | 4H | 21.30 | 22.20 | 21.76 | 22.64 | 23.10 | 21.30 | 22.20 | 21.76 | 22.64 | 23.10 |
| | 6H | 22.01 | 22.76 | 22.50 | 23.24 | 23.72 | 22.01 | 22.76 | 22.50 | 23.24 | 23.72 |
| | 8H | 22.26 | 22.93 | 22.77 | 23.44 | 23.92 | 22.26 | 22.93 | 22.77 | 23.44 | 23.92 |
| | 12H | 22.46 | 23.06 | 22.97 | 23.55 | 24.10 | 22.46 | 23.06 | 22.97 | 23.55 | 24.10 |
| 12H | 4H | 21.33 | 22.14 | 21.81 | 22.62 | 23.09 | 21.33 | 22.14 | 21.81 | 22.62 | 23.09 |
| | 6H | 22.06 | 22.73 | 22.57 | 23.24 | 23.72 | 22.06 | 22.73 | 22.57 | 23.24 | 23.72 |
| | 8H | 22.37 | 22.97 | 22.87 | 23.45 | 24.01 | 22.37 | 22.97 | 22.87 | 23.45 | 24.01 |