

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: P866331

Luminaire Tested: PRLX-2002-M-935-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-65L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

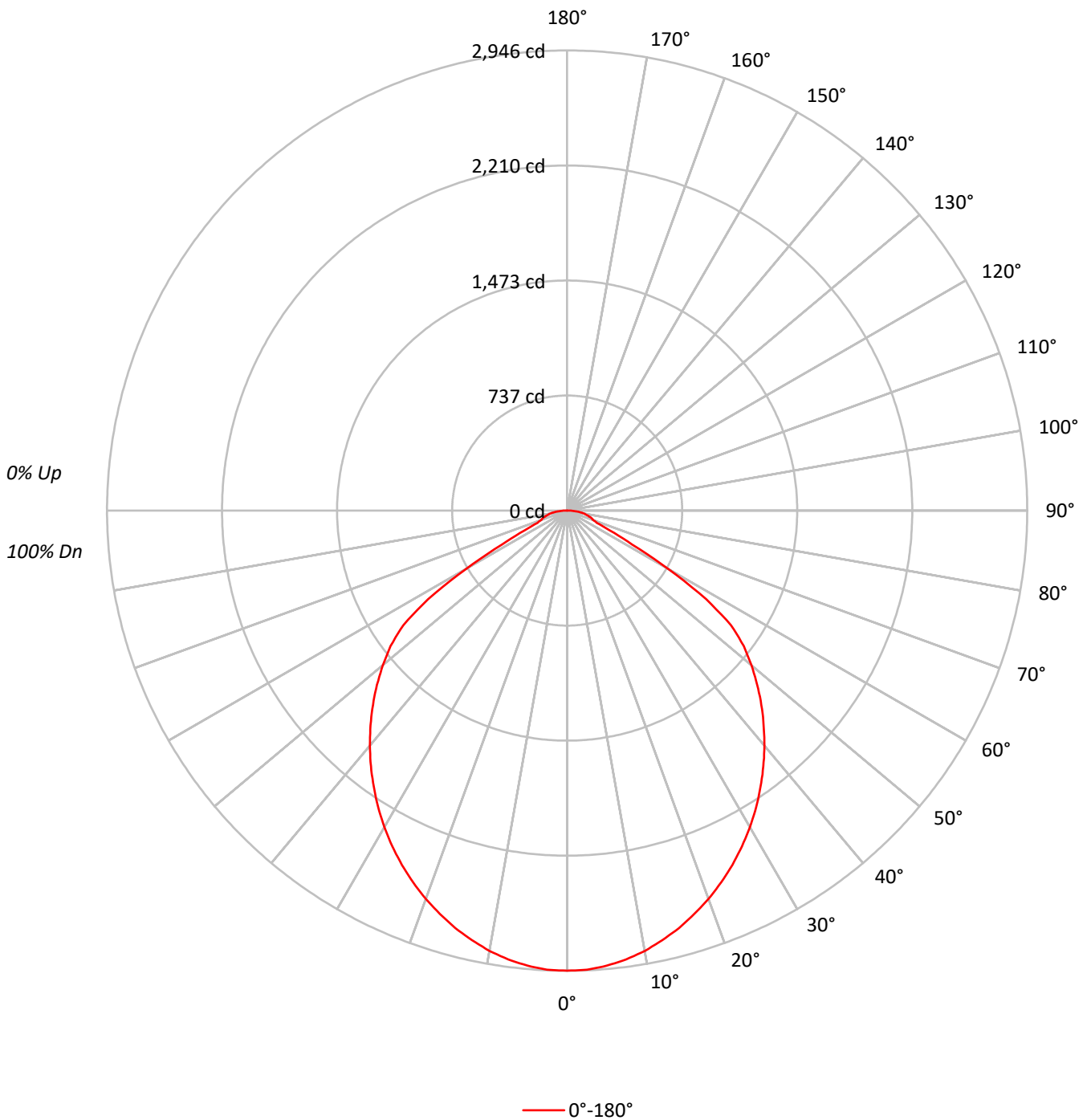
Lumens per Lamp: N/A
Luminaire Lumens: 6578.8 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 84 | 80 | 78 | 76 |
| 3 | 94 | 85 | 77 | 72 | 92 | 83 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 56 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 56 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | 40 |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 36 |
| 9 | 60 | 47 | 40 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 23434 |
| 5° | 23355 |
| 10° | 23126 |
| 15° | 22793 |
| 20° | 22399 |
| 25° | 21970 |
| 30° | 21502 |
| 35° | 20968 |
| 40° | 20406 |
| 45° | 19785 |
| 50° | 19058 |
| 55° | 17761 |
| 60° | 11927 |
| 65° | 5644 |
| 70° | 4143 |
| 75° | 4445 |
| 80° | 4930 |
| 85° | 5477 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19785 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 277.2 | 4.2 |
| 10°-20° | 779.6 | 11.9 |
| 20°-30° | 1152.6 | 17.5 |
| 30°-40° | 1350.4 | 20.5 |
| 40°-50° | 1355.5 | 20.6 |
| 50°-60° | 1094.0 | 16.6 |
| 60°-70° | 353.6 | 5.4 |
| 70°-80° | 152.7 | 2.3 |
| 80°-90° | 63.1 | 1.0 |
| 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° | 2209.4 | 33.6 |
| 0°-40° | 3559.8 | 54.1 |
| 0°-60° | 6009.3 | 91.3 |
| 0°-90° | 6578.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6578.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2946 | |
| 5° | 2924 | 277 |
| 15° | 2767 | 780 |
| 25° | 2503 | 1153 |
| 35° | 2159 | 1350 |
| 45° | 1758 | 1356 |
| 55° | 1280 | 1094 |
| 65° | 300 | 354 |
| 75° | 145 | 153 |
| 85° | 60 | 63 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2945.6 |
| 2.5° | 2942.0 |
| 5° | 2924.4 |
| 7.5° | 2897.9 |
| 10° | 2862.7 |
| 12.5° | 2816.8 |
| 15° | 2767.4 |
| 17.5° | 2707.5 |
| 20° | 2645.7 |
| 22.5° | 2576.9 |
| 25° | 2502.8 |
| 27.5° | 2423.5 |
| 30° | 2340.6 |
| 32.5° | 2252.4 |
| 35° | 2158.9 |
| 37.5° | 2063.7 |
| 40° | 1964.9 |
| 42.5° | 1862.6 |
| 45° | 1758.5 |
| 47.5° | 1650.9 |
| 50° | 1539.8 |
| 52.5° | 1425.2 |
| 55° | 1280.5 |
| 57.5° | 1056.5 |
| 60° | 749.6 |
| 62.5° | 469.2 |
| 65° | 299.8 |
| 67.5° | 206.4 |
| 70° | 178.1 |
| 72.5° | 164.0 |
| 75° | 144.6 |
| 77.5° | 127.0 |
| 80° | 107.6 |
| 82.5° | 86.4 |
| 85° | 60.0 |
| 87.5° | 31.7 |
| 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 | 21.69 | 23.19 | 22.06 | 23.51 | 23.82 | 21.69 | 23.19 | 22.06 | 23.51 | 23.82 |
| | 3H | 21.80 | 23.13 | 22.18 | 23.46 | 23.82 | 21.80 | 23.13 | 22.18 | 23.46 | 23.82 |
| | 4H | 21.89 | 23.13 | 22.29 | 23.48 | 23.86 | 21.89 | 23.13 | 22.29 | 23.48 | 23.86 |
| | 6H | 22.00 | 23.15 | 22.42 | 23.52 | 23.91 | 22.00 | 23.15 | 22.42 | 23.52 | 23.91 |
| | 8H | 22.06 | 23.15 | 22.49 | 23.54 | 23.94 | 22.06 | 23.15 | 22.49 | 23.54 | 23.94 |
| | 12H | 22.11 | 23.15 | 22.54 | 23.53 | 23.96 | 22.11 | 23.15 | 22.54 | 23.53 | 23.96 |
| 4H | 2H | 21.66 | 22.90 | 22.06 | 23.25 | 23.63 | 21.66 | 22.90 | 22.06 | 23.25 | 23.63 |
| | 3H | 21.86 | 22.88 | 22.27 | 23.28 | 23.68 | 21.86 | 22.88 | 22.27 | 23.28 | 23.68 |
| | 4H | 22.02 | 22.93 | 22.45 | 23.34 | 23.78 | 22.02 | 22.93 | 22.45 | 23.34 | 23.78 |
| | 6H | 22.24 | 23.03 | 22.70 | 23.47 | 23.93 | 22.24 | 23.03 | 22.70 | 23.47 | 23.93 |
| | 8H | 22.34 | 23.08 | 22.81 | 23.53 | 23.99 | 22.34 | 23.08 | 22.81 | 23.53 | 23.99 |
| | 12H | 22.44 | 23.10 | 22.93 | 23.58 | 24.05 | 22.44 | 23.10 | 22.93 | 23.58 | 24.05 |
| 8H | 4H | 22.03 | 22.77 | 22.50 | 23.22 | 23.69 | 22.03 | 22.77 | 22.50 | 23.22 | 23.69 |
| | 6H | 22.33 | 22.95 | 22.83 | 23.44 | 23.92 | 22.33 | 22.95 | 22.83 | 23.44 | 23.92 |
| | 8H | 22.50 | 23.06 | 23.02 | 23.57 | 24.06 | 22.50 | 23.06 | 23.02 | 23.57 | 24.06 |
| | 12H | 22.68 | 23.17 | 23.19 | 23.67 | 24.23 | 22.68 | 23.17 | 23.19 | 23.67 | 24.23 |
| 12H | 4H | 22.02 | 22.68 | 22.51 | 23.16 | 23.64 | 22.02 | 22.68 | 22.51 | 23.16 | 23.64 |
| | 6H | 22.34 | 22.89 | 22.85 | 23.40 | 23.89 | 22.34 | 22.89 | 22.85 | 23.40 | 23.89 |
| | 8H | 22.55 | 23.05 | 23.07 | 23.54 | 24.11 | 22.55 | 23.05 | 23.07 | 23.54 | 24.11 |