

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: P867245

Luminaire Tested: PRLX-2004-L-930-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-117L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

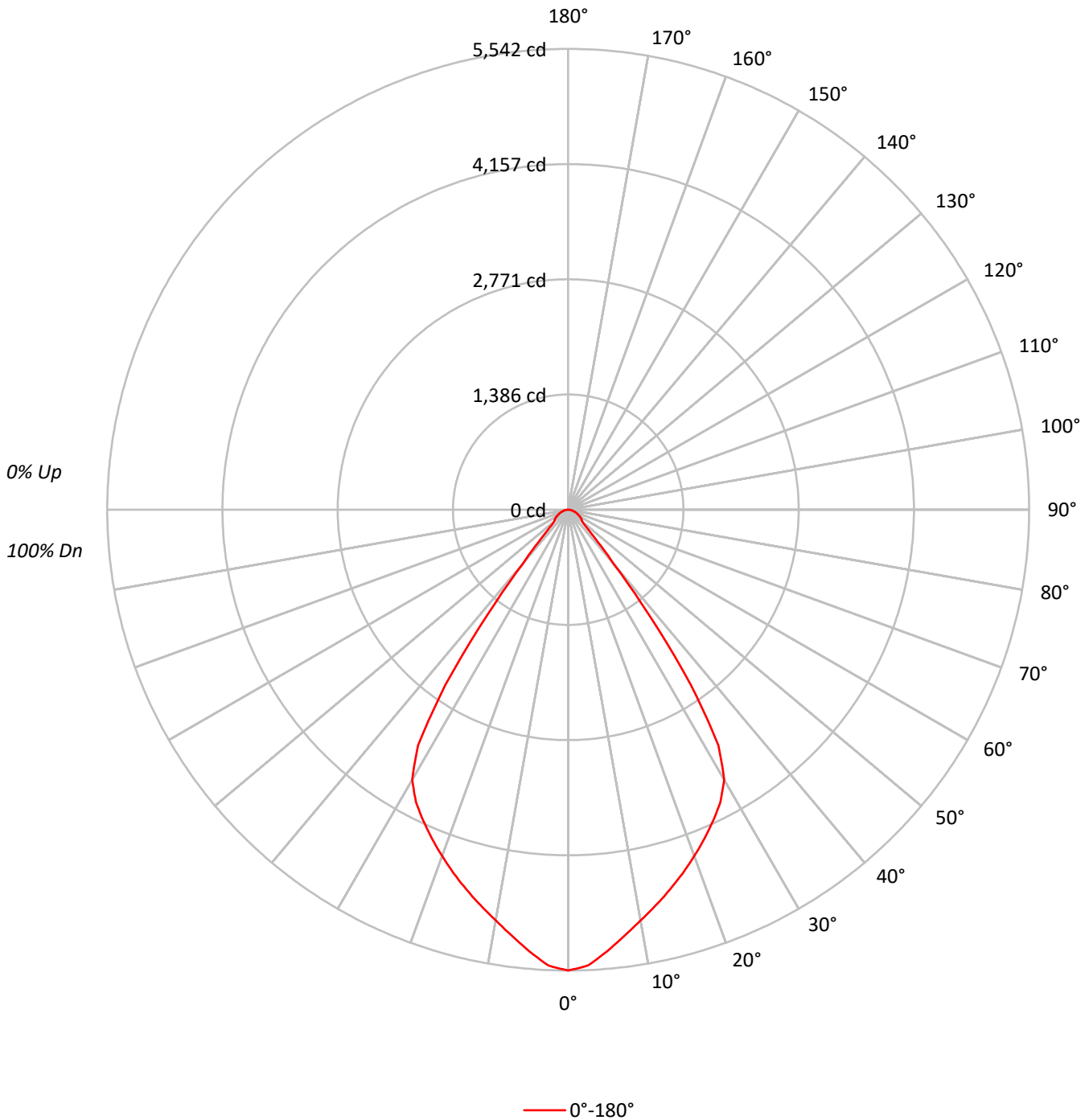
Lumens per Lamp: N/A
Luminaire Lumens: 5935.1 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 106 | 101 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 95 | 87 | 80 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 71 |
| 5 | 90 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 69 | 63 | 59 | 68 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 8 | 76 | 66 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 |
| 9 | 72 | 62 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 50 | 49 |
| 10 | 68 | 58 | 52 | 48 | 67 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 27343 |
| 5° | 26415 |
| 10° | 25126 |
| 15° | 24151 |
| 20° | 23271 |
| 25° | 22450 |
| 30° | 21366 |
| 35° | 15498 |
| 40° | 5507 |
| 45° | 2424 |
| 50° | 1677 |
| 55° | 1655 |
| 60° | 1560 |
| 65° | 1470 |
| 70° | 1381 |
| 75° | 1306 |
| 80° | 1230 |
| 85° | 1138 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2424 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 499.1 | 8.4 |
| 10°-20° | 1331.5 | 22.4 |
| 20°-30° | 1895.6 | 31.9 |
| 30°-40° | 1503.0 | 25.3 |
| 40°-50° | 315.0 | 5.3 |
| 50°-60° | 170.7 | 2.9 |
| 60°-70° | 125.1 | 2.1 |
| 70°-80° | 72.5 | 1.2 |
| 80°-90° | 22.6 | 0.4 |
| 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° | 3726.2 | 62.8 |
| 0°-40° | 5229.2 | 88.1 |
| 0°-60° | 5714.9 | 96.3 |
| 0°-90° | 5935.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5935.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5542 | |
| 5° | 5334 | 499 |
| 15° | 4728 | 1332 |
| 25° | 4124 | 1896 |
| 35° | 2573 | 1503 |
| 45° | 347 | 315 |
| 55° | 192 | 171 |
| 65° | 126 | 125 |
| 75° | 68 | 73 |
| 85° | 20 | 23 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 5541.9 |
| 2.5° | 5486.6 |
| 5° | 5333.5 |
| 7.5° | 5169.3 |
| 10° | 5015.2 |
| 12.5° | 4872.2 |
| 15° | 4728.2 |
| 17.5° | 4583.2 |
| 20° | 4432.1 |
| 22.5° | 4281.1 |
| 25° | 4124.0 |
| 27.5° | 3962.8 |
| 30° | 3750.4 |
| 32.5° | 3359.6 |
| 35° | 2573.1 |
| 37.5° | 1581.1 |
| 40° | 855.0 |
| 42.5° | 522.7 |
| 45° | 347.4 |
| 47.5° | 252.8 |
| 50° | 218.5 |
| 52.5° | 207.5 |
| 55° | 192.4 |
| 57.5° | 175.2 |
| 60° | 158.1 |
| 62.5° | 142.0 |
| 65° | 125.9 |
| 67.5° | 110.8 |
| 70° | 95.7 |
| 72.5° | 81.6 |
| 75° | 68.5 |
| 77.5° | 55.4 |
| 80° | 43.3 |
| 82.5° | 31.2 |
| 85° | 20.1 |
| 87.5° | 10.1 |
| 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 | 8.57 | 9.63 | 8.93 | 9.94 | 10.25 | 8.57 | 9.63 | 8.93 | 9.94 | 10.25 |
| | 3H | 10.20 | 11.13 | 10.58 | 11.47 | 11.83 | 10.20 | 11.13 | 10.58 | 11.47 | 11.83 |
| | 4H | 10.83 | 11.69 | 11.23 | 12.05 | 12.44 | 10.83 | 11.69 | 11.23 | 12.05 | 12.44 |
| | 6H | 11.30 | 12.10 | 11.72 | 12.47 | 12.87 | 11.30 | 12.10 | 11.72 | 12.47 | 12.87 |
| | 8H | 11.47 | 12.21 | 11.90 | 12.61 | 13.02 | 11.47 | 12.21 | 11.90 | 12.61 | 13.02 |
| | 12H | 11.57 | 12.29 | 12.01 | 12.67 | 13.10 | 11.57 | 12.29 | 12.01 | 12.67 | 13.10 |
| 4H | 2H | 9.06 | 9.93 | 9.47 | 10.28 | 10.67 | 9.06 | 9.93 | 9.47 | 10.28 | 10.67 |
| | 3H | 10.90 | 11.61 | 11.32 | 12.02 | 12.42 | 10.90 | 11.61 | 11.32 | 12.02 | 12.42 |
| | 4H | 11.65 | 12.29 | 12.09 | 12.71 | 13.16 | 11.65 | 12.29 | 12.09 | 12.71 | 13.16 |
| | 6H | 12.26 | 12.81 | 12.73 | 13.26 | 13.73 | 12.26 | 12.81 | 12.73 | 13.26 | 13.73 |
| | 8H | 12.47 | 12.98 | 12.95 | 13.43 | 13.90 | 12.47 | 12.98 | 12.95 | 13.43 | 13.90 |
| | 12H | 12.62 | 13.06 | 13.11 | 13.55 | 14.03 | 12.62 | 13.06 | 13.11 | 13.55 | 14.03 |
| 8H | 4H | 11.89 | 12.39 | 12.36 | 12.84 | 13.32 | 11.89 | 12.39 | 12.36 | 12.84 | 13.32 |
| | 6H | 12.64 | 13.04 | 13.15 | 13.54 | 14.03 | 12.64 | 13.04 | 13.15 | 13.54 | 14.03 |
| | 8H | 12.93 | 13.29 | 13.46 | 13.81 | 14.31 | 12.93 | 13.29 | 13.46 | 13.81 | 14.31 |
| | 12H | 13.18 | 13.49 | 13.70 | 13.99 | 14.56 | 13.18 | 13.49 | 13.70 | 13.99 | 14.56 |
| 12H | 4H | 11.89 | 12.33 | 12.38 | 12.82 | 13.30 | 11.89 | 12.33 | 12.38 | 12.82 | 13.30 |
| | 6H | 12.68 | 13.04 | 13.21 | 13.56 | 14.06 | 12.68 | 13.04 | 13.21 | 13.56 | 14.06 |
| | 8H | 13.03 | 13.34 | 13.55 | 13.84 | 14.42 | 13.03 | 13.34 | 13.55 | 13.84 | 14.42 |