

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: P866517

Luminaire Tested: PRLX-2004-M-930-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

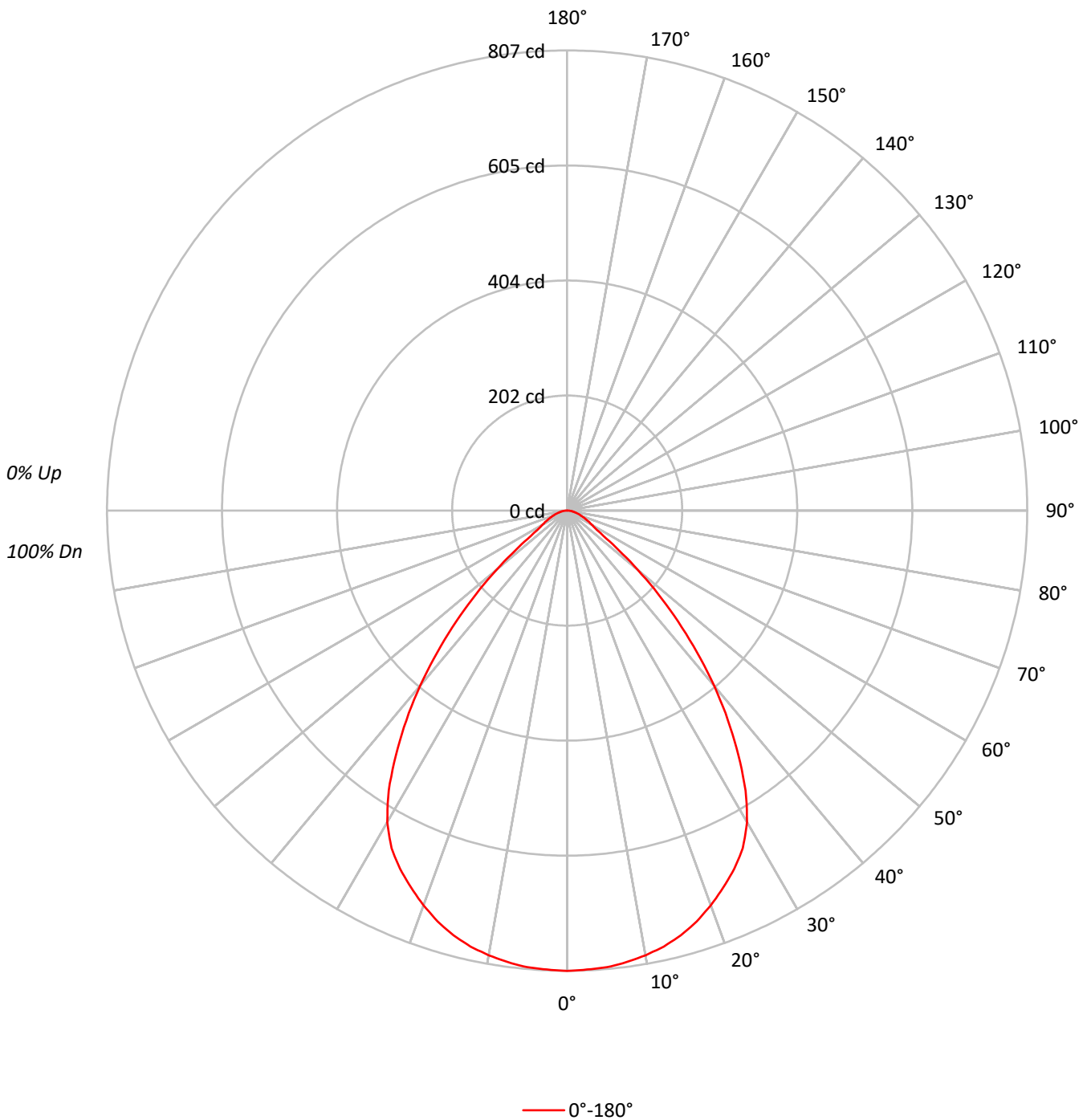
Lumens per Lamp: N/A
Luminaire Lumens: 1288.9 lumens
Efficiency: N/A
Efficacy: 22.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866517

CATALOG NUMBER: PRLX-2004-M-930-65L-G-U-S-X-X-BRSS-X

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 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 93 | 90 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 81 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 70 | 79 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 53 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 46 | 55 | 50 | 46 | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 41 |
| 10 | 63 | 51 | 44 | 40 | 62 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 43 | 39 | 48 | 43 | 39 | 38 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 6423 |
| 5° | 6420 |
| 10° | 6397 |
| 15° | 6350 |
| 20° | 6235 |
| 25° | 6085 |
| 30° | 5797 |
| 35° | 5087 |
| 40° | 4166 |
| 45° | 3093 |
| 50° | 1990 |
| 55° | 1079 |
| 60° | 797 |
| 65° | 683 |
| 70° | 602 |
| 75° | 532 |
| 80° | 476 |
| 85° | 475 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3093 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.3 | 5.9 |
| 10°-20° | 217.0 | 16.8 |
| 20°-30° | 318.0 | 24.7 |
| 30°-40° | 324.7 | 25.2 |
| 40°-50° | 212.2 | 16.5 |
| 50°-60° | 78.9 | 6.1 |
| 60°-70° | 36.7 | 2.8 |
| 70°-80° | 18.9 | 1.5 |
| 80°-90° | 6.1 | 0.5 |
| 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° | 611.3 | 47.4 |
| 0°-40° | 936.1 | 72.6 |
| 0°-60° | 1227.2 | 95.2 |
| 0°-90° | 1288.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1288.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 807 | |
| 5° | 804 | 76 |
| 15° | 771 | 217 |
| 25° | 693 | 318 |
| 35° | 524 | 325 |
| 45° | 275 | 212 |
| 55° | 78 | 79 |
| 65° | 36 | 37 |
| 75° | 17 | 19 |
| 85° | 5 | 6 |
| 90° | 0 | |

TEST NUMBER: P866517

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 807.3 |
| 2.5° | 805.6 |
| 5° | 803.9 |
| 7.5° | 798.7 |
| 10° | 791.8 |
| 12.5° | 783.1 |
| 15° | 771.0 |
| 17.5° | 755.5 |
| 20° | 736.5 |
| 22.5° | 715.7 |
| 25° | 693.2 |
| 27.5° | 667.3 |
| 30° | 631.0 |
| 32.5° | 582.6 |
| 35° | 523.8 |
| 37.5° | 463.3 |
| 40° | 401.1 |
| 42.5° | 337.1 |
| 45° | 274.9 |
| 47.5° | 216.1 |
| 50° | 160.8 |
| 52.5° | 114.1 |
| 55° | 77.8 |
| 57.5° | 58.8 |
| 60° | 50.1 |
| 62.5° | 43.2 |
| 65° | 36.3 |
| 67.5° | 31.1 |
| 70° | 25.9 |
| 72.5° | 22.5 |
| 75° | 17.3 |
| 77.5° | 13.8 |
| 80° | 10.4 |
| 82.5° | 8.6 |
| 85° | 5.2 |
| 87.5° | 3.5 |
| 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 | 7.67 | 8.93 | 8.03 | 9.24 | 9.55 | 7.67 | 8.93 | 8.03 | 9.24 | 9.55 |
| | 3H | 8.86 | 9.97 | 9.24 | 10.30 | 10.67 | 8.86 | 9.97 | 9.24 | 10.30 | 10.67 |
| | 4H | 9.30 | 10.33 | 9.70 | 10.68 | 11.07 | 9.30 | 10.33 | 9.70 | 10.68 | 11.07 |
| | 6H | 9.61 | 10.55 | 10.02 | 10.93 | 11.32 | 9.61 | 10.55 | 10.02 | 10.93 | 11.32 |
| | 8H | 9.73 | 10.63 | 10.16 | 11.02 | 11.43 | 9.73 | 10.63 | 10.16 | 11.02 | 11.43 |
| | 12H | 9.82 | 10.68 | 10.25 | 11.06 | 11.49 | 9.82 | 10.68 | 10.25 | 11.06 | 11.49 |
| 4H | 2H | 8.04 | 9.07 | 8.44 | 9.42 | 9.80 | 8.04 | 9.07 | 8.44 | 9.42 | 9.80 |
| | 3H | 9.45 | 10.29 | 9.86 | 10.69 | 11.10 | 9.45 | 10.29 | 9.86 | 10.69 | 11.10 |
| | 4H | 9.99 | 10.74 | 10.43 | 11.16 | 11.61 | 9.99 | 10.74 | 10.43 | 11.16 | 11.61 |
| | 6H | 10.42 | 11.06 | 10.88 | 11.51 | 11.98 | 10.42 | 11.06 | 10.88 | 11.51 | 11.98 |
| | 8H | 10.59 | 11.20 | 11.06 | 11.64 | 12.12 | 10.59 | 11.20 | 11.06 | 11.64 | 12.12 |
| | 12H | 10.73 | 11.26 | 11.21 | 11.74 | 12.22 | 10.73 | 11.26 | 11.21 | 11.74 | 12.22 |
| 8H | 4H | 10.16 | 10.76 | 10.63 | 11.21 | 11.68 | 10.16 | 10.76 | 10.63 | 11.21 | 11.68 |
| | 6H | 10.69 | 11.18 | 11.19 | 11.68 | 12.16 | 10.69 | 11.18 | 11.19 | 11.68 | 12.16 |
| | 8H | 10.95 | 11.39 | 11.47 | 11.91 | 12.40 | 10.95 | 11.39 | 11.47 | 11.91 | 12.40 |
| | 12H | 11.17 | 11.56 | 11.69 | 12.06 | 12.63 | 11.17 | 11.56 | 11.69 | 12.06 | 12.63 |
| 12H | 4H | 10.15 | 10.68 | 10.64 | 11.17 | 11.64 | 10.15 | 10.68 | 10.64 | 11.17 | 11.64 |
| | 6H | 10.71 | 11.16 | 11.24 | 11.67 | 12.17 | 10.71 | 11.16 | 11.24 | 11.67 | 12.17 |
| | 8H | 11.04 | 11.43 | 11.55 | 11.92 | 12.50 | 11.04 | 11.43 | 11.55 | 11.92 | 12.50 |