

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: P865987

Luminaire Tested: PRLX-2001-M-930-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-35L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

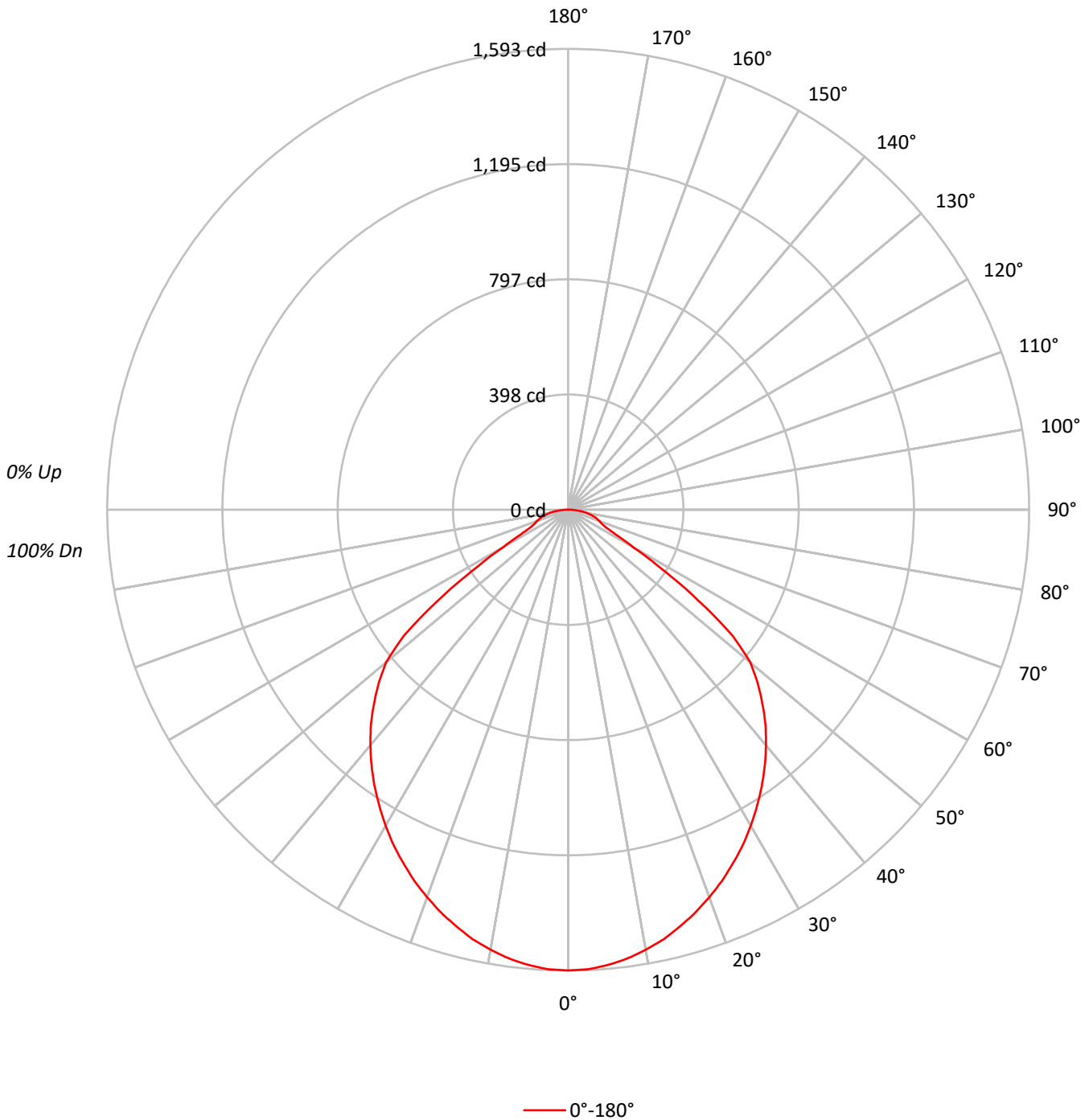
Lumens per Lamp: N/A
Luminaire Lumens: 3430.5 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): 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 | 90 | 88 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 60 | 55 | 66 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 51 |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 47 | 45 |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 43 | 52 | 47 | 42 | 41 |
| 8 | 65 | 52 | 44 | 39 | 64 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 |
| 9 | 61 | 48 | 41 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 13516 |
| 5° | 13457 |
| 10° | 13307 |
| 15° | 13102 |
| 20° | 12870 |
| 25° | 12621 |
| 30° | 12359 |
| 35° | 12083 |
| 40° | 11777 |
| 45° | 11395 |
| 50° | 10839 |
| 55° | 8208 |
| 60° | 4408 |
| 65° | 2841 |
| 70° | 2863 |
| 75° | 3023 |
| 80° | 3137 |
| 85° | 3174 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11395 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.7 | 4.4 |
| 10°-20° | 420.5 | 12.3 |
| 20°-30° | 621.2 | 18.1 |
| 30°-40° | 729.4 | 21.3 |
| 40°-50° | 731.2 | 21.3 |
| 50°-60° | 489.6 | 14.3 |
| 60°-70° | 157.3 | 4.6 |
| 70°-80° | 96.2 | 2.8 |
| 80°-90° | 35.6 | 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° | 1191.3 | 34.7 |
| 0°-40° | 1920.7 | 56.0 |
| 0°-60° | 3141.5 | 91.6 |
| 0°-90° | 3430.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3430.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1593 | |
| 5° | 1580 | 150 |
| 15° | 1491 | 420 |
| 25° | 1348 | 621 |
| 35° | 1166 | 729 |
| 45° | 950 | 731 |
| 55° | 555 | 490 |
| 65° | 142 | 157 |
| 75° | 92 | 96 |
| 85° | 33 | 36 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1592.7 |
| 2.5° | 1589.9 |
| 5° | 1579.7 |
| 7.5° | 1564.8 |
| 10° | 1544.3 |
| 12.5° | 1521.1 |
| 15° | 1491.3 |
| 17.5° | 1460.6 |
| 20° | 1425.2 |
| 22.5° | 1388.9 |
| 25° | 1347.9 |
| 27.5° | 1307.0 |
| 30° | 1261.3 |
| 32.5° | 1214.8 |
| 35° | 1166.4 |
| 37.5° | 1116.1 |
| 40° | 1063.1 |
| 42.5° | 1009.1 |
| 45° | 949.5 |
| 47.5° | 889.0 |
| 50° | 821.0 |
| 52.5° | 716.8 |
| 55° | 554.8 |
| 57.5° | 393.8 |
| 60° | 259.7 |
| 62.5° | 183.4 |
| 65° | 141.5 |
| 67.5° | 124.7 |
| 70° | 115.4 |
| 72.5° | 104.3 |
| 75° | 92.2 |
| 77.5° | 78.2 |
| 80° | 64.2 |
| 82.5° | 49.3 |
| 85° | 32.6 |
| 87.5° | 16.8 |
| 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 | 17.33 | 18.80 | 17.69 | 19.12 | 19.43 | 17.33 | 18.80 | 17.69 | 19.12 | 19.43 |
| | 3H | 17.81 | 19.12 | 18.19 | 19.45 | 19.81 | 17.81 | 19.12 | 18.19 | 19.45 | 19.81 |
| | 4H | 18.13 | 19.35 | 18.53 | 19.70 | 20.08 | 18.13 | 19.35 | 18.53 | 19.70 | 20.08 |
| | 6H | 18.46 | 19.58 | 18.87 | 19.95 | 20.34 | 18.46 | 19.58 | 18.87 | 19.95 | 20.34 |
| | 8H | 18.59 | 19.66 | 19.02 | 20.05 | 20.46 | 18.59 | 19.66 | 19.02 | 20.05 | 20.46 |
| | 12H | 18.70 | 19.73 | 19.13 | 20.11 | 20.54 | 18.70 | 19.73 | 19.13 | 20.11 | 20.54 |
| 4H | 2H | 17.36 | 18.59 | 17.76 | 18.94 | 19.31 | 17.36 | 18.59 | 17.76 | 18.94 | 19.31 |
| | 3H | 18.07 | 19.07 | 18.48 | 19.47 | 19.88 | 18.07 | 19.07 | 18.48 | 19.47 | 19.88 |
| | 4H | 18.54 | 19.44 | 18.98 | 19.86 | 20.30 | 18.54 | 19.44 | 18.98 | 19.86 | 20.30 |
| | 6H | 19.04 | 19.82 | 19.50 | 20.27 | 20.73 | 19.04 | 19.82 | 19.50 | 20.27 | 20.73 |
| | 8H | 19.25 | 19.98 | 19.72 | 20.43 | 20.89 | 19.25 | 19.98 | 19.72 | 20.43 | 20.89 |
| | 12H | 19.42 | 20.08 | 19.91 | 20.56 | 21.03 | 19.42 | 20.08 | 19.91 | 20.56 | 21.03 |
| 8H | 4H | 18.71 | 19.44 | 19.17 | 19.88 | 20.35 | 18.71 | 19.44 | 19.17 | 19.88 | 20.35 |
| | 6H | 19.34 | 19.95 | 19.84 | 20.44 | 20.92 | 19.34 | 19.95 | 19.84 | 20.44 | 20.92 |
| | 8H | 19.64 | 20.19 | 20.15 | 20.70 | 21.19 | 19.64 | 20.19 | 20.15 | 20.70 | 21.19 |
| | 12H | 19.90 | 20.39 | 20.41 | 20.89 | 21.45 | 19.90 | 20.39 | 20.41 | 20.89 | 21.45 |
| 12H | 4H | 18.72 | 19.37 | 19.21 | 19.85 | 20.33 | 18.72 | 19.37 | 19.21 | 19.85 | 20.33 |
| | 6H | 19.38 | 19.93 | 19.90 | 20.44 | 20.93 | 19.38 | 19.93 | 19.90 | 20.44 | 20.93 |
| | 8H | 19.74 | 20.23 | 20.25 | 20.73 | 21.29 | 19.74 | 20.23 | 20.25 | 20.73 | 21.29 |