

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: P865916

Luminaire Tested: PRLX-2001-M-927-35L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-35L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

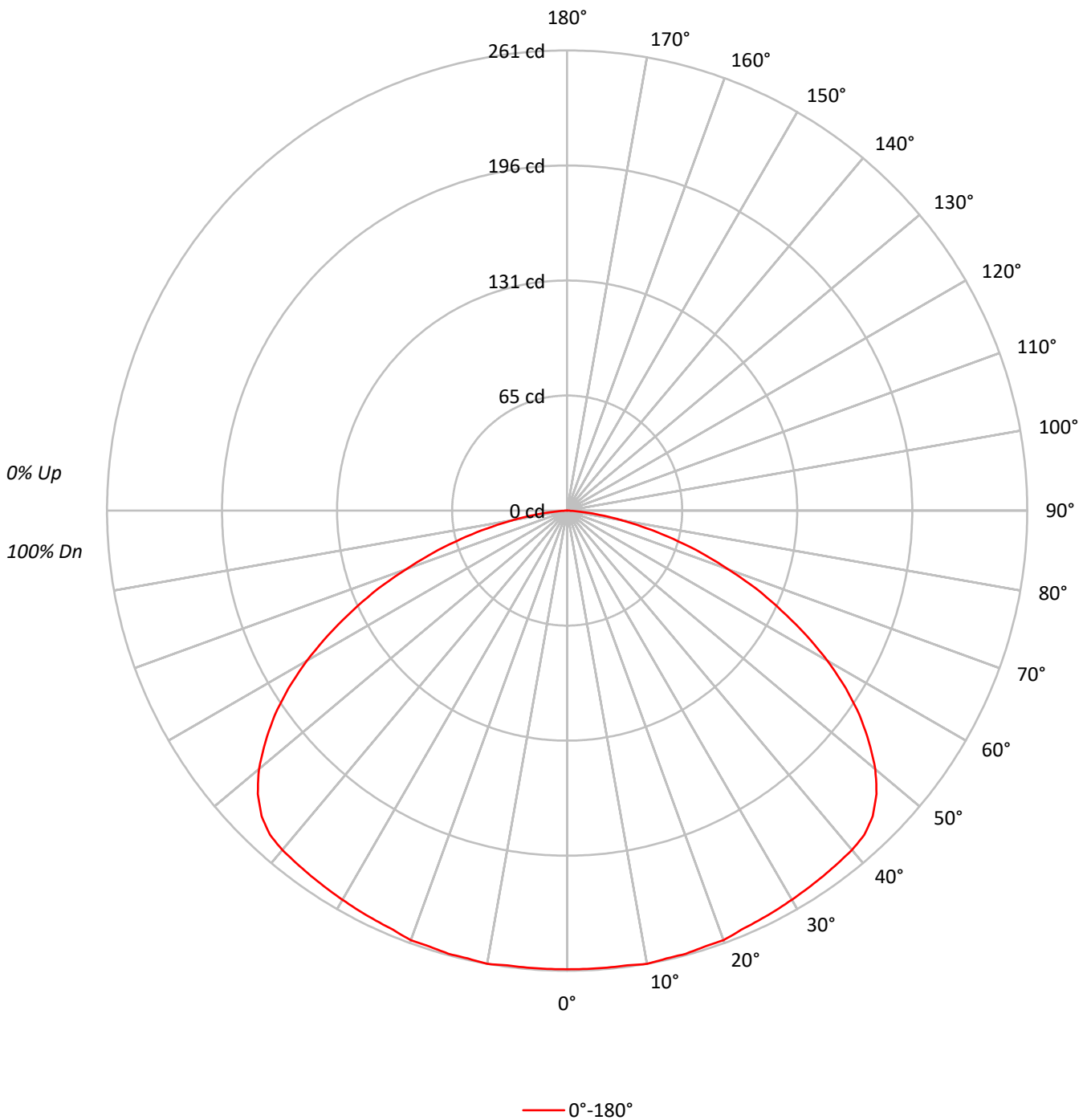
Lumens per Lamp: N/A
Luminaire Lumens: 955.5 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | | 81 | 76 | 72 | | 78 | 74 | 71 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 76 | 69 | 62 | 73 | 67 | 61 | | 71 | 65 | 60 | | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | | 62 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 74 | 61 | 51 | 45 | 72 | 60 | 51 | 44 | 57 | 50 | 44 | | 55 | 49 | 43 | | 54 | 48 | 43 | 41 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 52 | 44 | 38 | | 50 | 43 | 37 | | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 47 | 39 | 33 | | 45 | 38 | 33 | | 44 | 37 | 33 | 30 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | | 41 | 34 | 29 | | 40 | 34 | 29 | 27 |
| 9 | 54 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | | 38 | 31 | 26 | | 37 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | | 35 | 28 | 23 | | 34 | 28 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 2208 |
| 5° | 2216 |
| 10° | 2250 |
| 15° | 2286 |
| 20° | 2342 |
| 25° | 2403 |
| 30° | 2498 |
| 35° | 2622 |
| 40° | 2784 |
| 45° | 2941 |
| 50° | 3013 |
| 55° | 2996 |
| 60° | 2894 |
| 65° | 2693 |
| 70° | 2402 |
| 75° | 2039 |
| 80° | 1520 |
| 85° | 779 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3013 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.9 | 2.6 |
| 10°-20° | 73.7 | 7.7 |
| 20°-30° | 118.8 | 12.4 |
| 30°-40° | 159.0 | 16.6 |
| 40°-50° | 188.0 | 19.7 |
| 50°-60° | 180.1 | 18.8 |
| 60°-70° | 132.7 | 13.9 |
| 70°-80° | 66.5 | 7.0 |
| 80°-90° | 11.9 | 1.3 |
| 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° | 217.3 | 22.7 |
| 0°-40° | 376.3 | 39.4 |
| 0°-60° | 744.4 | 77.9 |
| 0°-90° | 955.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 955.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 260 | |
| 5° | 260 | 25 |
| 15° | 260 | 74 |
| 25° | 257 | 119 |
| 35° | 253 | 159 |
| 45° | 245 | 188 |
| 55° | 202 | 180 |
| 65° | 134 | 133 |
| 75° | 62 | 66 |
| 85° | 8 | 12 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 260.2 |
| 2.5° | 260.2 |
| 5° | 260.2 |
| 7.5° | 260.2 |
| 10° | 261.1 |
| 12.5° | 260.2 |
| 15° | 260.2 |
| 17.5° | 259.3 |
| 20° | 259.3 |
| 22.5° | 257.5 |
| 25° | 256.6 |
| 27.5° | 255.8 |
| 30° | 254.9 |
| 32.5° | 254.0 |
| 35° | 253.1 |
| 37.5° | 252.2 |
| 40° | 251.3 |
| 42.5° | 249.5 |
| 45° | 245.1 |
| 47.5° | 238.0 |
| 50° | 228.2 |
| 52.5° | 215.8 |
| 55° | 202.5 |
| 57.5° | 187.4 |
| 60° | 170.5 |
| 62.5° | 152.7 |
| 65° | 134.1 |
| 67.5° | 116.3 |
| 70° | 96.8 |
| 72.5° | 79.9 |
| 75° | 62.2 |
| 77.5° | 46.2 |
| 80° | 31.1 |
| 82.5° | 18.6 |
| 85° | 8.0 |
| 87.5° | 1.8 |
| 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 | 16.45 | 18.15 | 16.82 | 18.47 | 18.78 | 16.45 | 18.15 | 16.82 | 18.47 | 18.78 |
| | 3H | 18.06 | 19.60 | 18.44 | 19.93 | 20.29 | 18.06 | 19.60 | 18.44 | 19.93 | 20.29 |
| | 4H | 18.59 | 20.03 | 18.98 | 20.38 | 20.76 | 18.59 | 20.03 | 18.98 | 20.38 | 20.76 |
| | 6H | 18.89 | 20.23 | 19.30 | 20.59 | 20.98 | 18.89 | 20.23 | 19.30 | 20.59 | 20.98 |
| | 8H | 18.95 | 20.23 | 19.37 | 20.62 | 21.02 | 18.95 | 20.23 | 19.37 | 20.62 | 21.02 |
| | 12H | 18.96 | 20.20 | 19.39 | 20.58 | 21.01 | 18.96 | 20.20 | 19.39 | 20.58 | 21.01 |
| 4H | 2H | 17.05 | 18.50 | 17.45 | 18.85 | 19.22 | 17.05 | 18.50 | 17.45 | 18.85 | 19.22 |
| | 3H | 18.86 | 20.08 | 19.27 | 20.47 | 20.87 | 18.86 | 20.08 | 19.27 | 20.47 | 20.87 |
| | 4H | 19.49 | 20.58 | 19.92 | 21.00 | 21.43 | 19.49 | 20.58 | 19.92 | 21.00 | 21.43 |
| | 6H | 19.88 | 20.84 | 20.34 | 21.28 | 21.73 | 19.88 | 20.84 | 20.34 | 21.28 | 21.73 |
| | 8H | 19.97 | 20.87 | 20.43 | 21.31 | 21.77 | 19.97 | 20.87 | 20.43 | 21.31 | 21.77 |
| | 12H | 20.01 | 20.81 | 20.49 | 21.29 | 21.75 | 20.01 | 20.81 | 20.49 | 21.29 | 21.75 |
| 8H | 4H | 19.73 | 20.62 | 20.19 | 21.06 | 21.53 | 19.73 | 20.62 | 20.19 | 21.06 | 21.53 |
| | 6H | 20.19 | 20.94 | 20.69 | 21.42 | 21.90 | 20.19 | 20.94 | 20.69 | 21.42 | 21.90 |
| | 8H | 20.32 | 20.98 | 20.82 | 21.49 | 21.97 | 20.32 | 20.98 | 20.82 | 21.49 | 21.97 |
| | 12H | 20.38 | 20.97 | 20.88 | 21.46 | 22.01 | 20.38 | 20.97 | 20.88 | 21.46 | 22.01 |
| 12H | 4H | 19.74 | 20.55 | 20.22 | 21.02 | 21.49 | 19.74 | 20.55 | 20.22 | 21.02 | 21.49 |
| | 6H | 20.21 | 20.88 | 20.72 | 21.38 | 21.87 | 20.21 | 20.88 | 20.72 | 21.38 | 21.87 |
| | 8H | 20.37 | 20.96 | 20.87 | 21.45 | 22.01 | 20.37 | 20.96 | 20.87 | 21.45 | 22.01 |