

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: P865810

Luminaire Tested: PRLX-2004-S-930-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-930-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

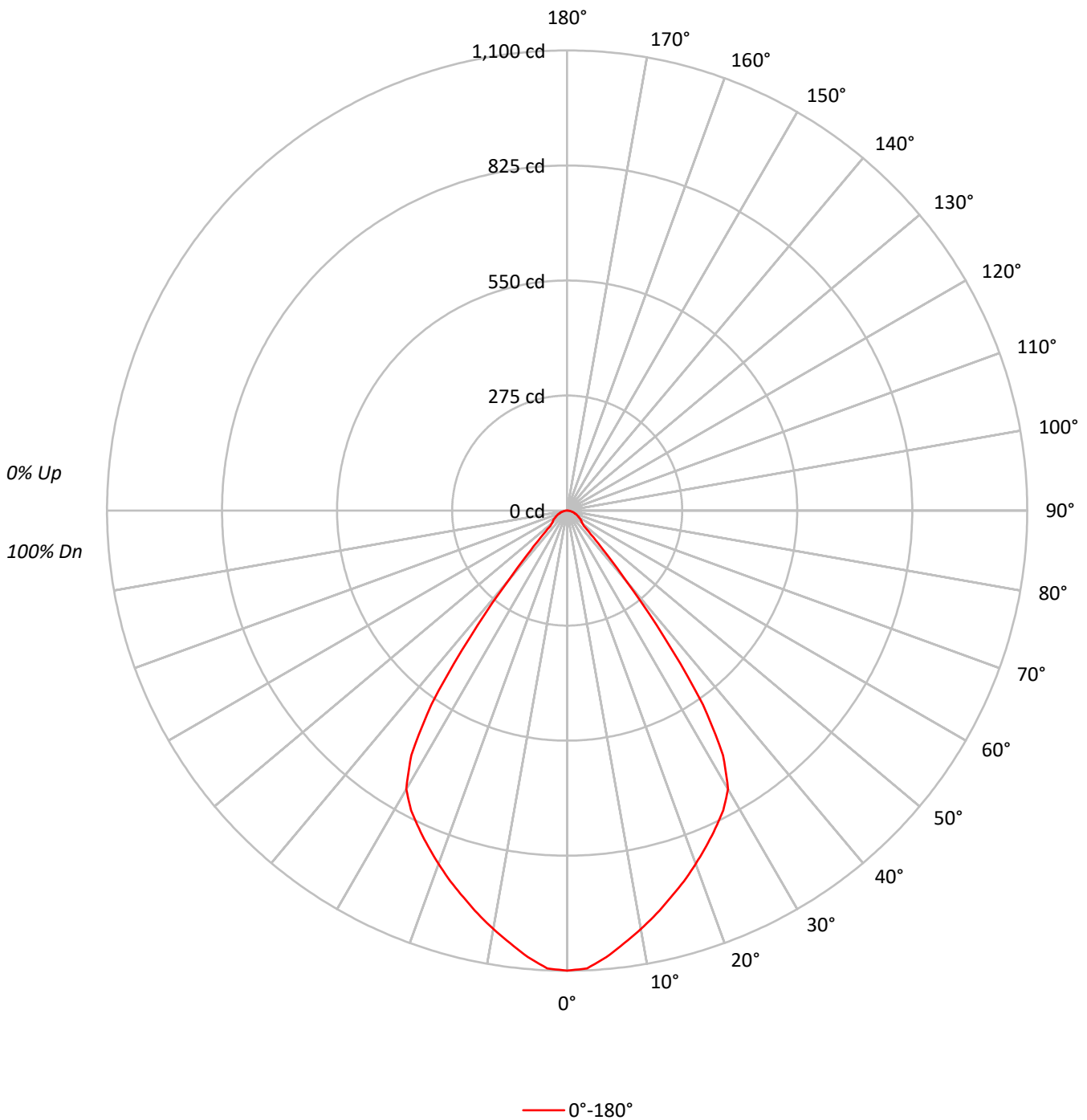
Lumens per Lamp: N/A
Luminaire Lumens: 1240.5 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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 | 96 | 96 | 95 | 94 | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 82 | 89 | 85 | 81 | 86 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 71 |
| 5 | 89 | 80 | 74 | 69 | 87 | 79 | 73 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 6 | 84 | 74 | 68 | 63 | 83 | 74 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 62 | 60 |
| 7 | 80 | 70 | 63 | 58 | 78 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 57 | 56 |
| 8 | 75 | 65 | 59 | 54 | 74 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 52 |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 48 |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 47 | 55 | 50 | 47 | 54 | 50 | 46 | 45 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 17936 |
| 5° | 17545 |
| 10° | 16817 |
| 15° | 16161 |
| 20° | 15599 |
| 25° | 15084 |
| 30° | 14485 |
| 35° | 11270 |
| 40° | 4646 |
| 45° | 1843 |
| 50° | 1205 |
| 55° | 1166 |
| 60° | 1057 |
| 65° | 1000 |
| 70° | 925 |
| 75° | 952 |
| 80° | 808 |
| 85° | 805 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1843 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.5 | 8.1 |
| 10°-20° | 269.8 | 21.7 |
| 20°-30° | 385.8 | 31.1 |
| 30°-40° | 327.9 | 26.4 |
| 40°-50° | 74.6 | 6.0 |
| 50°-60° | 36.0 | 2.9 |
| 60°-70° | 26.2 | 2.1 |
| 70°-80° | 15.1 | 1.2 |
| 80°-90° | 4.7 | 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° | 756.0 | 60.9 |
| 0°-40° | 1084.0 | 87.4 |
| 0°-60° | 1194.5 | 96.3 |
| 0°-90° | 1240.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1240.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1100 | |
| 5° | 1072 | 100 |
| 15° | 957 | 270 |
| 25° | 838 | 386 |
| 35° | 566 | 328 |
| 45° | 80 | 75 |
| 55° | 41 | 36 |
| 65° | 26 | 26 |
| 75° | 15 | 15 |
| 85° | 4 | 5 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1099.7 |
| 2.5° | 1095.3 |
| 5° | 1071.6 |
| 7.5° | 1043.5 |
| 10° | 1015.4 |
| 12.5° | 987.3 |
| 15° | 957.1 |
| 17.5° | 929.0 |
| 20° | 898.7 |
| 22.5° | 868.5 |
| 25° | 838.2 |
| 27.5° | 808.0 |
| 30° | 769.1 |
| 32.5° | 693.5 |
| 35° | 566.0 |
| 37.5° | 380.2 |
| 40° | 218.2 |
| 42.5° | 127.5 |
| 45° | 79.9 |
| 47.5° | 54.0 |
| 50° | 47.5 |
| 52.5° | 43.2 |
| 55° | 41.0 |
| 57.5° | 36.7 |
| 60° | 32.4 |
| 62.5° | 30.2 |
| 65° | 25.9 |
| 67.5° | 23.8 |
| 70° | 19.4 |
| 72.5° | 17.3 |
| 75° | 15.1 |
| 77.5° | 10.8 |
| 80° | 8.6 |
| 82.5° | 6.5 |
| 85° | 4.3 |
| 87.5° | 2.2 |
| 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 | 7.28 | 8.34 | 7.64 | 8.65 | 8.97 | 7.28 | 8.34 | 7.64 | 8.65 | 8.97 |
| | 3H | 8.92 | 9.86 | 9.30 | 10.20 | 10.56 | 8.92 | 9.86 | 9.30 | 10.20 | 10.56 |
| | 4H | 9.60 | 10.47 | 10.01 | 10.83 | 11.22 | 9.60 | 10.47 | 10.01 | 10.83 | 11.22 |
| | 6H | 10.01 | 10.81 | 10.42 | 11.18 | 11.58 | 10.01 | 10.81 | 10.42 | 11.18 | 11.58 |
| | 8H | 10.16 | 10.91 | 10.59 | 11.31 | 11.72 | 10.16 | 10.91 | 10.59 | 11.31 | 11.72 |
| | 12H | 10.27 | 10.99 | 10.70 | 11.37 | 11.81 | 10.27 | 10.99 | 10.70 | 11.37 | 11.81 |
| 4H | 2H | 7.75 | 8.63 | 8.16 | 8.98 | 9.37 | 7.75 | 8.63 | 8.16 | 8.98 | 9.37 |
| | 3H | 9.60 | 10.32 | 10.01 | 10.72 | 11.13 | 9.60 | 10.32 | 10.01 | 10.72 | 11.13 |
| | 4H | 10.42 | 11.06 | 10.86 | 11.48 | 11.93 | 10.42 | 11.06 | 10.86 | 11.48 | 11.93 |
| | 6H | 10.95 | 11.49 | 11.41 | 11.94 | 12.42 | 10.95 | 11.49 | 11.41 | 11.94 | 12.42 |
| | 8H | 11.15 | 11.66 | 11.62 | 12.11 | 12.58 | 11.15 | 11.66 | 11.62 | 12.11 | 12.58 |
| | 12H | 11.30 | 11.75 | 11.79 | 12.24 | 12.71 | 11.30 | 11.75 | 11.79 | 12.24 | 12.71 |
| 8H | 4H | 10.64 | 11.15 | 11.12 | 11.60 | 12.08 | 10.64 | 11.15 | 11.12 | 11.60 | 12.08 |
| | 6H | 11.30 | 11.71 | 11.81 | 12.21 | 12.69 | 11.30 | 11.71 | 11.81 | 12.21 | 12.69 |
| | 8H | 11.59 | 11.95 | 12.12 | 12.47 | 12.97 | 11.59 | 11.95 | 12.12 | 12.47 | 12.97 |
| | 12H | 11.84 | 12.16 | 12.37 | 12.66 | 13.24 | 11.84 | 12.16 | 12.37 | 12.66 | 13.24 |
| 12H | 4H | 10.64 | 11.08 | 11.13 | 11.57 | 12.05 | 10.64 | 11.08 | 11.13 | 11.57 | 12.05 |
| | 6H | 11.33 | 11.70 | 11.87 | 12.22 | 12.72 | 11.33 | 11.70 | 11.87 | 12.22 | 12.72 |
| | 8H | 11.69 | 12.00 | 12.21 | 12.50 | 13.08 | 11.69 | 12.00 | 12.21 | 12.50 | 13.08 |