

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: P1245444

Luminaire Tested: PRLX-UNA-S-927-02L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-S-927-02L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 1
Light Source: -
Ballast/Driver: -

Summary

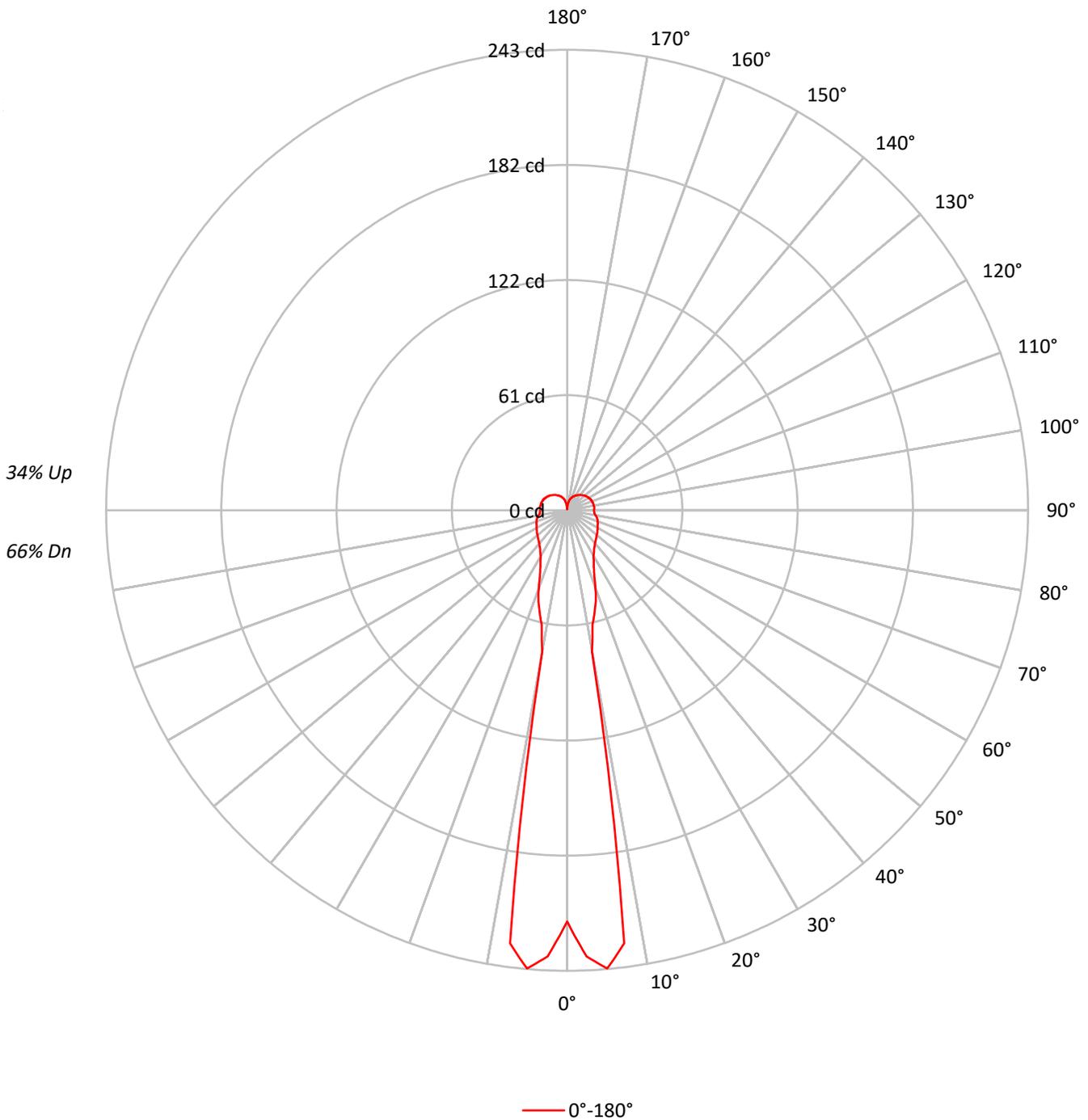
Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 6.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 92 | 92 | 92 | | 81 | 81 | 81 | | 71 | 71 | 71 | 66 |
| 1 | 99 | 94 | 89 | 84 | 93 | 88 | 84 | 80 | 78 | 74 | 71 | | 68 | 65 | 63 | | 59 | 57 | 55 | 51 |
| 2 | 90 | 81 | 74 | 68 | 84 | 77 | 70 | 65 | 68 | 63 | 58 | | 59 | 55 | 52 | | 52 | 49 | 46 | 42 |
| 3 | 82 | 72 | 64 | 57 | 77 | 68 | 60 | 55 | 60 | 54 | 49 | | 53 | 48 | 44 | | 46 | 43 | 40 | 36 |
| 4 | 76 | 64 | 56 | 49 | 71 | 61 | 53 | 47 | 54 | 48 | 43 | | 48 | 43 | 39 | | 42 | 38 | 35 | 32 |
| 5 | 70 | 58 | 49 | 43 | 66 | 55 | 47 | 41 | 49 | 43 | 38 | | 44 | 38 | 34 | | 38 | 34 | 31 | 28 |
| 6 | 65 | 53 | 44 | 38 | 61 | 50 | 42 | 37 | 45 | 39 | 34 | | 40 | 35 | 31 | | 36 | 32 | 28 | 26 |
| 7 | 61 | 48 | 40 | 35 | 57 | 46 | 39 | 33 | 42 | 35 | 31 | | 37 | 32 | 28 | | 33 | 29 | 26 | 24 |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | | 35 | 30 | 26 | | 31 | 27 | 24 | 22 |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | | 33 | 28 | 24 | | 30 | 26 | 23 | 21 |
| 10 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 26 | 34 | 28 | 24 | | 31 | 26 | 23 | | 28 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 10630 |
| 5° | 9864 |
| 10° | 2642 |
| 15° | 1722 |
| 20° | 1213 |
| 25° | 847 |
| 30° | 659 |
| 35° | 553 |
| 40° | 484 |
| 45° | 438 |
| 50° | 401 |
| 55° | 374 |
| 60° | 353 |
| 65° | 336 |
| 70° | 323 |
| 75° | 310 |
| 80° | 293 |
| 85° | 285 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 438 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.1 | 8.4 |
| 10°-20° | 15.7 | 6.9 |
| 20°-30° | 15.6 | 6.9 |
| 30°-40° | 15.7 | 6.9 |
| 40°-50° | 16.6 | 7.3 |
| 50°-60° | 17.4 | 7.7 |
| 60°-70° | 17.7 | 7.8 |
| 70°-80° | 17.2 | 7.6 |
| 80°-90° | 15.8 | 7.0 |
| 90°-100° | 15.6 | 6.9 |
| 100°-110° | 14.9 | 6.6 |
| 110°-120° | 13.5 | 5.9 |
| 120°-130° | 11.3 | 5.0 |
| 130°-140° | 8.8 | 3.9 |
| 140°-150° | 6.2 | 2.7 |
| 150°-160° | 3.8 | 1.7 |
| 160°-170° | 1.7 | 0.8 |
| 170°-180° | 0.3 | 0.1 |
| 0°-30° | 50.4 | 22.2 |
| 0°-40° | 66.1 | 29.1 |
| 0°-60° | 100.1 | 44.1 |
| 0°-90° | 150.9 | 66.5 |
| 90°-120° | 44.1 | 19.4 |
| 90°-150° | 70.4 | 31.0 |
| 90°-180° | 76.0 | 33.5 |
| 0°-180° | 227.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 217 | |
| 5° | 243 | 19 |
| 15° | 56 | 16 |
| 25° | 33 | 16 |
| 35° | 25 | 16 |
| 45° | 22 | 17 |
| 55° | 19 | 17 |
| 65° | 18 | 18 |
| 75° | 16 | 17 |
| 85° | 14 | 12 |
| 90° | 14 | 8 |
| 95° | 14 | 12 |
| 105° | 14 | 15 |
| 115° | 14 | 14 |
| 125° | 13 | 11 |
| 135° | 11 | 9 |
| 145° | 10 | 6 |
| 155° | 8 | 4 |
| 165° | 6 | 2 |
| 175° | 2 | 0 |
| 180° | 1 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 217.0 |
| 2.5° | 235.6 |
| 5° | 242.7 |
| 7.5° | 230.4 |
| 10° | 75.6 |
| 12.5° | 61.8 |
| 15° | 55.8 |
| 17.5° | 50.3 |
| 20° | 43.6 |
| 22.5° | 37.4 |
| 25° | 33.2 |
| 27.5° | 30.3 |
| 30° | 27.8 |
| 32.5° | 26.3 |
| 35° | 24.8 |
| 37.5° | 23.8 |
| 40° | 22.8 |
| 42.5° | 22.1 |
| 45° | 21.5 |
| 47.5° | 20.9 |
| 50° | 20.3 |
| 52.5° | 20.0 |
| 55° | 19.4 |
| 57.5° | 19.0 |
| 60° | 18.6 |
| 62.5° | 18.2 |
| 65° | 17.8 |
| 67.5° | 17.5 |
| 70° | 17.1 |
| 72.5° | 16.9 |
| 75° | 16.3 |
| 77.5° | 15.9 |
| 80° | 15.2 |
| 82.5° | 14.6 |
| 85° | 14.4 |
| 87.5° | 14.2 |
| 90° | 14.2 |
| 92.5° | 14.2 |
| 95° | 14.4 |
| 97.5° | 14.4 |
| 100° | 14.2 |
| 102.5° | 14.2 |
| 105° | 14.2 |
| 107.5° | 14.0 |
| 110° | 14.0 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 13.8 |
| 115° | 13.6 |
| 117.5° | 13.4 |
| 120° | 13.2 |
| 122.5° | 12.9 |
| 125° | 12.7 |
| 127.5° | 12.3 |
| 130° | 12.1 |
| 132.5° | 11.7 |
| 135° | 11.3 |
| 137.5° | 10.9 |
| 140° | 10.6 |
| 142.5° | 10.2 |
| 145° | 9.8 |
| 147.5° | 9.4 |
| 150° | 9.0 |
| 152.5° | 8.6 |
| 155° | 8.1 |
| 157.5° | 7.7 |
| 160° | 7.1 |
| 162.5° | 6.7 |
| 165° | 6.1 |
| 167.5° | 5.4 |
| 170° | 4.4 |
| 172.5° | 3.5 |
| 175° | 2.3 |
| 177.5° | 1.2 |
| 180° | 0.6 |



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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 | 4.6 | 5.7 | 5.4 | 6.5 | 7.5 | 4.6 | 5.7 | 5.4 | 6.5 | 7.5 |
| | 3H | 7.1 | 8.0 | 7.9 | 8.9 | 9.9 | 7.1 | 8.0 | 7.9 | 8.9 | 9.9 |
| | 4H | 8.2 | 9.2 | 9.0 | 10.0 | 11.1 | 8.2 | 9.2 | 9.0 | 10.0 | 11.1 |
| | 6H | 9.3 | 10.2 | 10.2 | 11.1 | 12.1 | 9.3 | 10.2 | 10.2 | 11.1 | 12.1 |
| | 8H | 9.8 | 10.7 | 10.7 | 11.5 | 12.6 | 9.8 | 10.7 | 10.7 | 11.5 | 12.6 |
| | 12H | 10.3 | 11.1 | 11.2 | 12.0 | 13.1 | 10.3 | 11.1 | 11.2 | 12.0 | 13.1 |
| 4H | 2H | 5.2 | 6.2 | 6.1 | 7.0 | 8.1 | 5.2 | 6.2 | 6.1 | 7.0 | 8.1 |
| | 3H | 7.9 | 8.7 | 8.7 | 9.6 | 10.6 | 7.9 | 8.7 | 8.7 | 9.6 | 10.6 |
| | 4H | 9.2 | 10.0 | 10.1 | 10.8 | 11.9 | 9.2 | 10.0 | 10.1 | 10.8 | 11.9 |
| | 6H | 10.5 | 11.2 | 11.4 | 12.1 | 13.1 | 10.5 | 11.2 | 11.4 | 12.1 | 13.1 |
| | 8H | 11.1 | 11.7 | 12.0 | 12.6 | 13.7 | 11.1 | 11.7 | 12.0 | 12.6 | 13.7 |
| | 12H | 11.7 | 12.3 | 12.6 | 13.2 | 14.3 | 11.7 | 12.3 | 12.6 | 13.2 | 14.3 |
| 8H | 4H | 9.6 | 10.3 | 10.5 | 11.2 | 12.3 | 9.6 | 10.3 | 10.5 | 11.2 | 12.3 |
| | 6H | 11.1 | 11.6 | 12.0 | 12.6 | 13.7 | 11.1 | 11.6 | 12.0 | 12.6 | 13.7 |
| | 8H | 11.8 | 12.3 | 12.7 | 13.2 | 14.4 | 11.8 | 12.3 | 12.7 | 13.2 | 14.4 |
| | 12H | 12.6 | 13.0 | 13.5 | 14.0 | 15.1 | 12.6 | 13.0 | 13.5 | 14.0 | 15.1 |
| 12H | 4H | 9.7 | 10.3 | 10.6 | 11.2 | 12.3 | 9.7 | 10.3 | 10.6 | 11.2 | 12.3 |
| | 6H | 11.3 | 11.7 | 12.2 | 12.6 | 13.8 | 11.3 | 11.7 | 12.2 | 12.6 | 13.8 |
| | 8H | 12.1 | 12.5 | 13.0 | 13.4 | 14.6 | 12.1 | 12.5 | 13.0 | 13.4 | 14.6 |

(END OF REPORT)