

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: P1245456

Luminaire Tested: PRLX-UNA-S-927-12L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245456
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-927-12L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

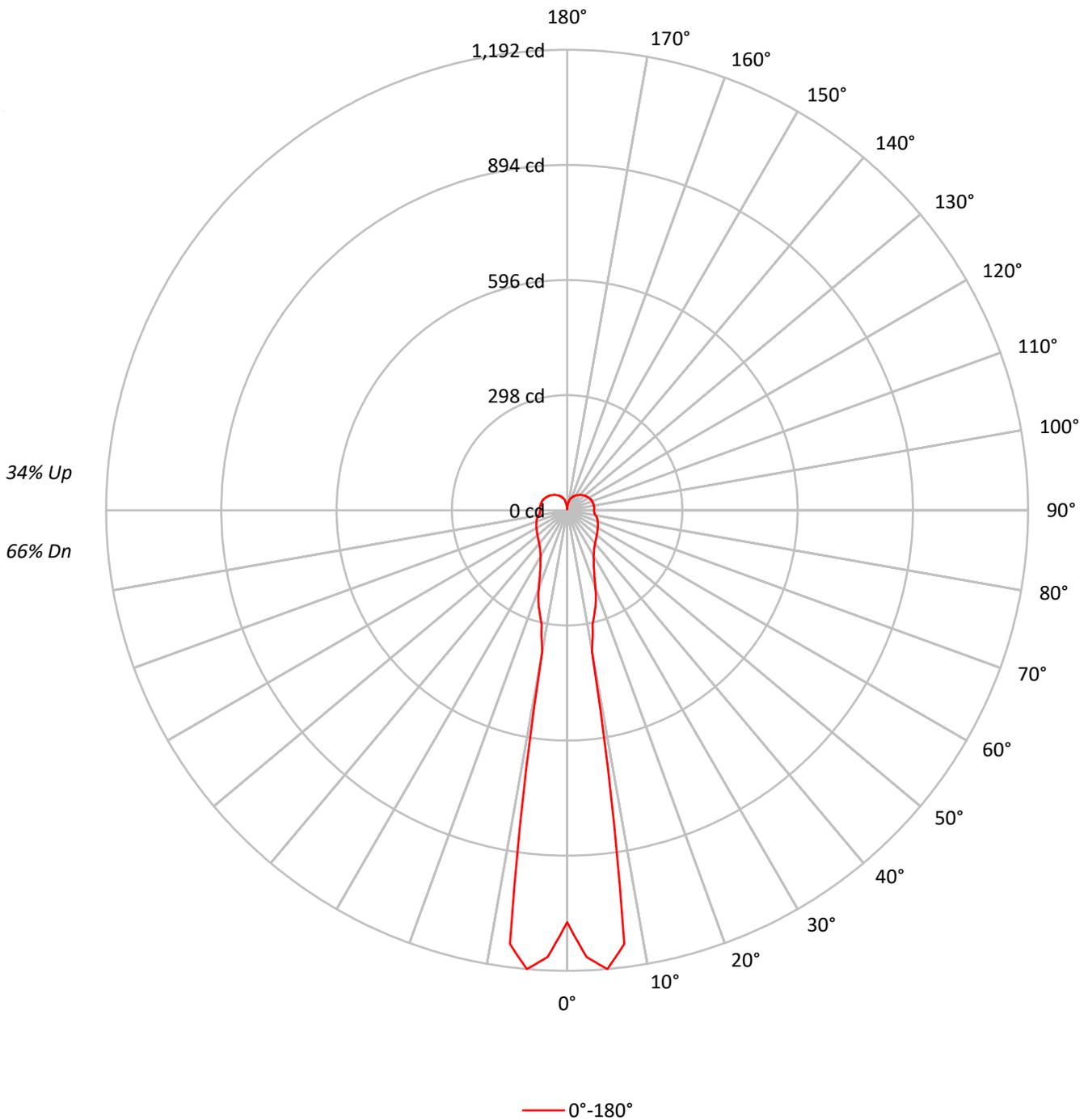
Lumens per Lamp: N/A
Luminaire Lumens: 1114.9 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): 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 | 31 | 26 | 34 | 28 | 24 | | 31 | 26 | 23 | | 28 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 52216 |
| 5° | 48449 |
| 10° | 12978 |
| 15° | 8464 |
| 20° | 5952 |
| 25° | 4158 |
| 30° | 3239 |
| 35° | 2713 |
| 40° | 2379 |
| 45° | 2150 |
| 50° | 1972 |
| 55° | 1836 |
| 60° | 1736 |
| 65° | 1652 |
| 70° | 1582 |
| 75° | 1523 |
| 80° | 1438 |
| 85° | 1398 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2150 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.7 | 8.4 |
| 10°-20° | 77.2 | 6.9 |
| 20°-30° | 76.6 | 6.9 |
| 30°-40° | 77.0 | 6.9 |
| 40°-50° | 81.7 | 7.3 |
| 50°-60° | 85.6 | 7.7 |
| 60°-70° | 86.9 | 7.8 |
| 70°-80° | 84.7 | 7.6 |
| 80°-90° | 77.5 | 6.9 |
| 90°-100° | 76.6 | 6.9 |
| 100°-110° | 73.4 | 6.6 |
| 110°-120° | 66.5 | 6.0 |
| 120°-130° | 55.6 | 5.0 |
| 130°-140° | 43.1 | 3.9 |
| 140°-150° | 30.3 | 2.7 |
| 150°-160° | 18.6 | 1.7 |
| 160°-170° | 8.5 | 0.8 |
| 170°-180° | 1.4 | 0.1 |
| 0°-30° | 247.5 | 22.2 |
| 0°-40° | 324.5 | 29.1 |
| 0°-60° | 491.8 | 44.1 |
| 0°-90° | 740.9 | 66.5 |
| 90°-120° | 216.4 | 19.4 |
| 90°-150° | 345.5 | 31.0 |
| 90°-180° | 374.0 | 33.5 |
| 0°-180° | 1114.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1066 | |
| 5° | 1192 | 94 |
| 15° | 274 | 77 |
| 25° | 163 | 77 |
| 35° | 122 | 77 |
| 45° | 106 | 82 |
| 55° | 95 | 86 |
| 65° | 88 | 87 |
| 75° | 80 | 85 |
| 85° | 71 | 58 |
| 90° | 70 | 38 |
| 95° | 71 | 57 |
| 105° | 70 | 73 |
| 115° | 67 | 66 |
| 125° | 62 | 56 |
| 135° | 56 | 43 |
| 145° | 48 | 30 |
| 155° | 40 | 19 |
| 165° | 30 | 9 |
| 175° | 11 | 1 |
| 180° | 3 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 1065.9 |
| 2.5° | 1157.3 |
| 5° | 1192.1 |
| 7.5° | 1131.8 |
| 10° | 371.3 |
| 12.5° | 303.5 |
| 15° | 274.2 |
| 17.5° | 246.9 |
| 20° | 213.9 |
| 22.5° | 183.8 |
| 25° | 163.0 |
| 27.5° | 148.9 |
| 30° | 136.6 |
| 32.5° | 129.1 |
| 35° | 121.6 |
| 37.5° | 116.9 |
| 40° | 112.1 |
| 42.5° | 108.4 |
| 45° | 105.5 |
| 47.5° | 102.7 |
| 50° | 99.9 |
| 52.5° | 98.0 |
| 55° | 95.2 |
| 57.5° | 93.3 |
| 60° | 91.4 |
| 62.5° | 89.5 |
| 65° | 87.6 |
| 67.5° | 85.8 |
| 70° | 83.9 |
| 72.5° | 82.9 |
| 75° | 80.1 |
| 77.5° | 78.2 |
| 80° | 74.5 |
| 82.5° | 71.6 |
| 85° | 70.7 |
| 87.5° | 69.7 |
| 90° | 69.7 |
| 92.5° | 69.7 |
| 95° | 70.7 |
| 97.5° | 70.7 |
| 100° | 69.7 |
| 102.5° | 69.7 |
| 105° | 69.7 |
| 107.5° | 68.8 |
| 110° | 68.8 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 67.9 |
| 115° | 66.9 |
| 117.5° | 66.0 |
| 120° | 65.0 |
| 122.5° | 63.1 |
| 125° | 62.2 |
| 127.5° | 60.3 |
| 130° | 59.4 |
| 132.5° | 57.5 |
| 135° | 55.6 |
| 137.5° | 53.7 |
| 140° | 51.8 |
| 142.5° | 49.9 |
| 145° | 48.1 |
| 147.5° | 46.2 |
| 150° | 44.3 |
| 152.5° | 42.4 |
| 155° | 39.6 |
| 157.5° | 37.7 |
| 160° | 34.9 |
| 162.5° | 33.0 |
| 165° | 30.2 |
| 167.5° | 26.4 |
| 170° | 21.7 |
| 172.5° | 17.0 |
| 175° | 11.3 |
| 177.5° | 5.7 |
| 180° | 2.8 |



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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 | 10.1 | 11.2 | 10.9 | 12.0 | 13.1 | 10.1 | 11.2 | 10.9 | 12.0 | 13.1 |
| | 3H | 12.6 | 13.6 | 13.4 | 14.4 | 15.4 | 12.6 | 13.6 | 13.4 | 14.4 | 15.4 |
| | 4H | 13.8 | 14.7 | 14.6 | 15.5 | 16.6 | 13.8 | 14.7 | 14.6 | 15.5 | 16.6 |
| | 6H | 14.9 | 15.7 | 15.7 | 16.6 | 17.7 | 14.9 | 15.7 | 15.7 | 16.6 | 17.7 |
| | 8H | 15.4 | 16.2 | 16.2 | 17.1 | 18.1 | 15.4 | 16.2 | 16.2 | 17.1 | 18.1 |
| | 12H | 15.9 | 16.7 | 16.7 | 17.5 | 18.6 | 15.9 | 16.7 | 16.7 | 17.5 | 18.6 |
| 4H | 2H | 10.8 | 11.7 | 11.6 | 12.5 | 13.6 | 10.8 | 11.7 | 11.6 | 12.5 | 13.6 |
| | 3H | 13.4 | 14.2 | 14.3 | 15.1 | 16.2 | 13.4 | 14.2 | 14.3 | 15.1 | 16.2 |
| | 4H | 14.7 | 15.5 | 15.6 | 16.4 | 17.5 | 14.7 | 15.5 | 15.6 | 16.4 | 17.5 |
| | 6H | 16.0 | 16.7 | 16.9 | 17.6 | 18.7 | 16.0 | 16.7 | 16.9 | 17.6 | 18.7 |
| | 8H | 16.6 | 17.2 | 17.5 | 18.1 | 19.2 | 16.6 | 17.2 | 17.5 | 18.1 | 19.2 |
| | 12H | 17.2 | 17.8 | 18.1 | 18.7 | 19.8 | 17.2 | 17.8 | 18.1 | 18.7 | 19.8 |
| 8H | 4H | 15.2 | 15.8 | 16.0 | 16.7 | 17.8 | 15.2 | 15.8 | 16.0 | 16.7 | 17.8 |
| | 6H | 16.6 | 17.2 | 17.5 | 18.1 | 19.2 | 16.6 | 17.2 | 17.5 | 18.1 | 19.2 |
| | 8H | 17.4 | 17.8 | 18.3 | 18.8 | 19.9 | 17.4 | 17.8 | 18.3 | 18.8 | 19.9 |
| | 12H | 18.1 | 18.6 | 19.0 | 19.5 | 20.6 | 18.1 | 18.6 | 19.0 | 19.5 | 20.6 |
| 12H | 4H | 15.2 | 15.8 | 16.1 | 16.7 | 17.8 | 15.2 | 15.8 | 16.1 | 16.7 | 17.8 |
| | 6H | 16.8 | 17.3 | 17.7 | 18.2 | 19.3 | 16.8 | 17.3 | 17.7 | 18.2 | 19.3 |
| | 8H | 17.6 | 18.0 | 18.5 | 18.9 | 20.1 | 17.6 | 18.0 | 18.5 | 18.9 | 20.1 |

(END OF REPORT)