

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: P1245292

Luminaire Tested: PRLX-UNA-L-927-05L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-L-927-05L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

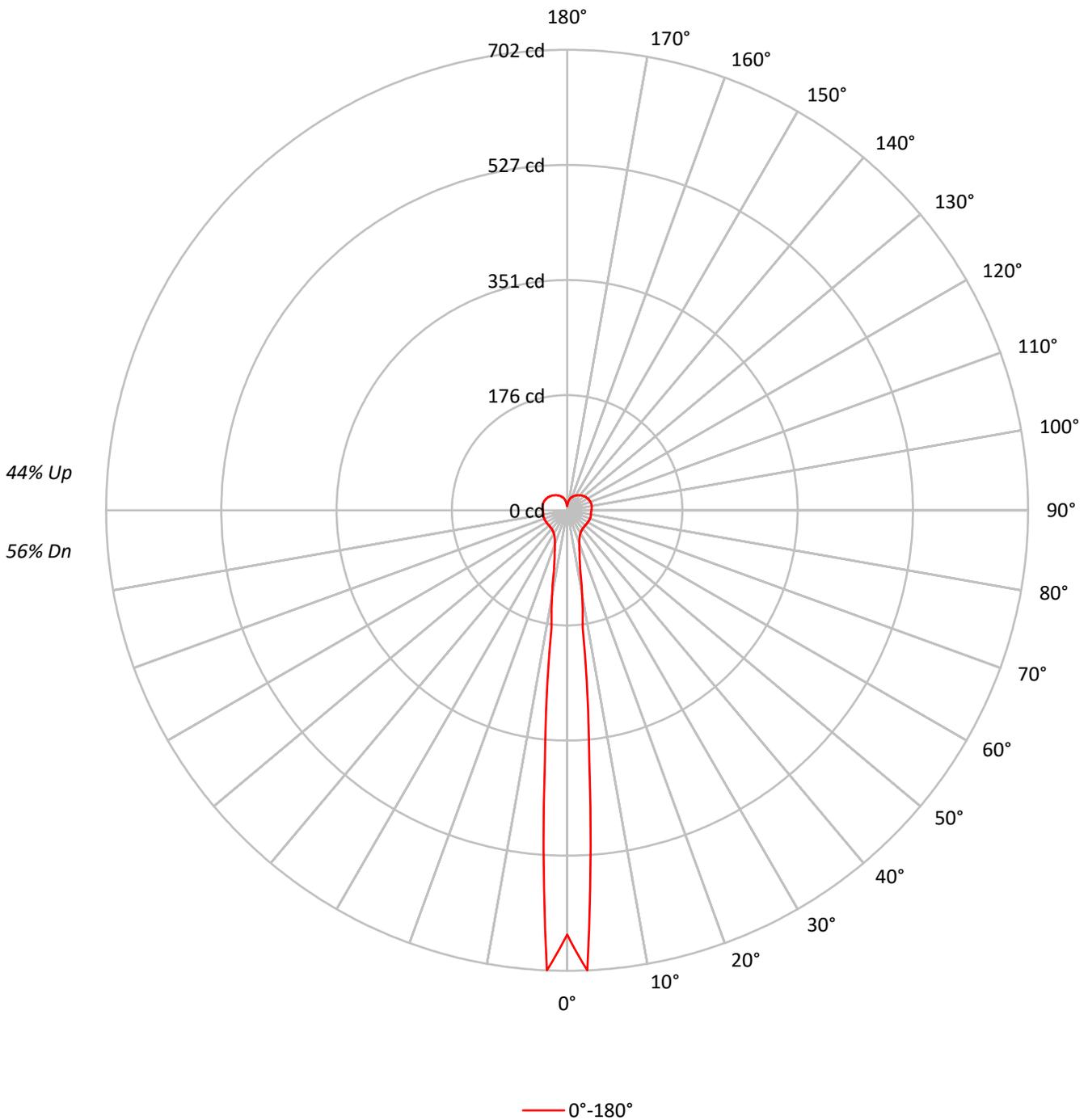
Lumens per Lamp: N/A
Luminaire Lumens: 481.1 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 14.8
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

TEST NUMBER: P1245292

CATALOG NUMBER: PRLX-UNA-L-927-05L-U-PS

Luminous Intensity Polar Plot





TEST NUMBER: P1245292

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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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 |
| 1 | 96 | 90 | 85 | 80 | 88 | 83 | 79 | 75 | 71 | 68 | 64 | 60 | 57 | 55 | 49 | 47 | 46 | 40 |
| 2 | 86 | 77 | 70 | 63 | 80 | 72 | 65 | 59 | 61 | 56 | 51 | 51 | 47 | 44 | 42 | 39 | 37 | 32 |
| 3 | 79 | 68 | 59 | 52 | 72 | 63 | 55 | 49 | 54 | 48 | 43 | 45 | 40 | 37 | 37 | 34 | 31 | 27 |
| 4 | 72 | 60 | 51 | 44 | 66 | 56 | 48 | 42 | 48 | 41 | 37 | 40 | 35 | 31 | 33 | 30 | 27 | 23 |
| 5 | 66 | 54 | 45 | 38 | 61 | 50 | 42 | 36 | 43 | 37 | 32 | 36 | 31 | 28 | 30 | 27 | 23 | 20 |
| 6 | 61 | 48 | 40 | 34 | 57 | 45 | 37 | 32 | 39 | 33 | 28 | 33 | 28 | 25 | 28 | 24 | 21 | 18 |
| 7 | 57 | 44 | 36 | 30 | 53 | 41 | 34 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 17 |
| 8 | 53 | 41 | 33 | 27 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 21 | 18 | 15 |
| 9 | 50 | 37 | 30 | 25 | 46 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 14 |
| 10 | 47 | 35 | 27 | 22 | 44 | 33 | 26 | 21 | 29 | 23 | 19 | 25 | 21 | 17 | 22 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 20466 |
| 5° | 9593 |
| 10° | 2697 |
| 15° | 1266 |
| 20° | 834 |
| 25° | 620 |
| 30° | 511 |
| 35° | 446 |
| 40° | 402 |
| 45° | 378 |
| 50° | 359 |
| 55° | 351 |
| 60° | 344 |
| 65° | 342 |
| 70° | 341 |
| 75° | 343 |
| 80° | 340 |
| 85° | 345 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 378 cd/sqm

TEST NUMBER: P1245292

CATALOG NUMBER: PRLX-UNA-L-927-05L-U-PS

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.8 | 6.0 |
| 10°-20° | 21.6 | 4.5 |
| 20°-30° | 21.1 | 4.4 |
| 30°-40° | 24.0 | 5.0 |
| 40°-50° | 28.0 | 5.8 |
| 50°-60° | 32.5 | 6.8 |
| 60°-70° | 36.5 | 7.6 |
| 70°-80° | 39.2 | 8.1 |
| 80°-90° | 40.0 | 8.3 |
| 90°-100° | 41.1 | 8.5 |
| 100°-110° | 40.2 | 8.4 |
| 110°-120° | 36.7 | 7.6 |
| 120°-130° | 31.3 | 6.5 |
| 130°-140° | 24.7 | 5.1 |
| 140°-150° | 17.7 | 3.7 |
| 150°-160° | 11.1 | 2.3 |
| 160°-170° | 5.4 | 1.1 |
| 170°-180° | 1.1 | 0.2 |
| 0°-30° | 71.5 | 14.9 |
| 0°-40° | 95.5 | 19.9 |
| 0°-60° | 156.0 | 32.4 |
| 0°-90° | 271.8 | 56.5 |
| 90°-120° | 118.0 | 24.5 |
| 90°-150° | 191.7 | 39.8 |
| 90°-180° | 209.0 | 43.4 |
| 0°-180° | 481.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 647 | |
| 5° | 389 | 29 |
| 15° | 73 | 22 |
| 25° | 45 | 21 |
| 35° | 38 | 24 |
| 45° | 36 | 28 |
| 55° | 36 | 33 |
| 65° | 37 | 37 |
| 75° | 37 | 39 |
| 85° | 37 | 30 |
| 90° | 37 | 20 |
| 95° | 38 | 31 |
| 105° | 38 | 40 |
| 115° | 37 | 37 |
| 125° | 35 | 31 |
| 135° | 32 | 25 |
| 145° | 28 | 18 |
| 155° | 24 | 11 |
| 165° | 19 | 5 |
| 175° | 10 | 1 |
| 180° | 6 | |

TEST NUMBER: P1245292

CATALOG NUMBER: PRLX-UNA-L-927-05L-U-PS

CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 646.9 |
| 2.5° | 702.0 |
| 5° | 388.9 |
| 7.5° | 180.3 |
| 10° | 132.6 |
| 12.5° | 91.2 |
| 15° | 72.7 |
| 17.5° | 62.0 |
| 20° | 54.4 |
| 22.5° | 48.9 |
| 25° | 45.0 |
| 27.5° | 42.4 |
| 30° | 40.5 |
| 32.5° | 39.2 |
| 35° | 38.1 |
| 37.5° | 37.2 |
| 40° | 36.6 |
| 42.5° | 36.4 |
| 45° | 36.2 |
| 47.5° | 35.9 |
| 50° | 35.9 |
| 52.5° | 36.2 |
| 55° | 36.2 |
| 57.5° | 36.4 |
| 60° | 36.4 |
| 62.5° | 36.6 |
| 65° | 36.8 |
| 67.5° | 37.0 |
| 70° | 37.0 |
| 72.5° | 37.2 |
| 75° | 37.2 |
| 77.5° | 37.0 |
| 80° | 36.6 |
| 82.5° | 36.6 |
| 85° | 36.6 |
| 87.5° | 36.8 |
| 90° | 37.0 |
| 92.5° | 37.4 |
| 95° | 37.7 |
| 97.5° | 37.9 |
| 100° | 38.1 |
| 102.5° | 38.1 |
| 105° | 38.1 |
| 107.5° | 37.9 |
| 110° | 37.7 |

TEST NUMBER: P1245292

CATALOG NUMBER: PRLX-UNA-L-927-05L-U-PS

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 37.4 |
| 115° | 37.0 |
| 117.5° | 36.6 |
| 120° | 36.2 |
| 122.5° | 35.5 |
| 125° | 34.9 |
| 127.5° | 34.2 |
| 130° | 33.6 |
| 132.5° | 32.7 |
| 135° | 31.9 |
| 137.5° | 31.0 |
| 140° | 29.9 |
| 142.5° | 29.1 |
| 145° | 28.0 |
| 147.5° | 27.1 |
| 150° | 26.0 |
| 152.5° | 25.0 |
| 155° | 23.9 |
| 157.5° | 22.8 |
| 160° | 21.5 |
| 162.5° | 20.4 |
| 165° | 18.9 |
| 167.5° | 17.2 |
| 170° | 15.1 |
| 172.5° | 12.7 |
| 175° | 9.9 |
| 177.5° | 7.3 |
| 180° | 6.5 |



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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 | 3.8 | 4.8 | 4.7 | 5.7 | 6.9 | 3.8 | 4.8 | 4.7 | 5.7 | 6.9 |
| | 3H | 6.6 | 7.5 | 7.5 | 8.5 | 9.7 | 6.6 | 7.5 | 7.5 | 8.5 | 9.7 |
| | 4H | 8.0 | 8.9 | 8.9 | 9.8 | 11.0 | 8.0 | 8.9 | 8.9 | 9.8 | 11.0 |
| | 6H | 9.3 | 10.2 | 10.3 | 11.1 | 12.3 | 9.3 | 10.2 | 10.3 | 11.1 | 12.3 |
| | 8H | 10.0 | 10.8 | 10.9 | 11.7 | 12.9 | 10.0 | 10.8 | 10.9 | 11.7 | 12.9 |
| | 12H | 10.6 | 11.4 | 11.5 | 12.3 | 13.5 | 10.6 | 11.4 | 11.5 | 12.3 | 13.5 |
| 4H | 2H | 4.5 | 5.4 | 5.4 | 6.3 | 7.5 | 4.5 | 5.4 | 5.4 | 6.3 | 7.5 |
| | 3H | 7.5 | 8.3 | 8.5 | 9.3 | 10.5 | 7.5 | 8.3 | 8.5 | 9.3 | 10.5 |
| | 4H | 9.1 | 9.8 | 10.0 | 10.7 | 12.0 | 9.1 | 9.8 | 10.0 | 10.7 | 12.0 |
| | 6H | 10.6 | 11.2 | 11.5 | 12.2 | 13.4 | 10.6 | 11.2 | 11.5 | 12.2 | 13.4 |
| | 8H | 11.3 | 11.9 | 12.2 | 12.9 | 14.1 | 11.3 | 11.9 | 12.2 | 12.9 | 14.1 |
| | 12H | 12.0 | 12.6 | 13.0 | 13.6 | 14.8 | 12.0 | 12.6 | 13.0 | 13.6 | 14.8 |
| 8H | 4H | 9.6 | 10.2 | 10.5 | 11.1 | 12.4 | 9.6 | 10.2 | 10.5 | 11.1 | 12.4 |
| | 6H | 11.3 | 11.8 | 12.2 | 12.8 | 14.0 | 11.3 | 11.8 | 12.2 | 12.8 | 14.0 |
| | 8H | 12.1 | 12.6 | 13.1 | 13.6 | 14.9 | 12.1 | 12.6 | 13.1 | 13.6 | 14.9 |
| | 12H | 13.0 | 13.5 | 14.0 | 14.5 | 15.8 | 13.0 | 13.5 | 14.0 | 14.5 | 15.8 |
| 12H | 4H | 9.7 | 10.2 | 10.6 | 11.2 | 12.4 | 9.7 | 10.2 | 10.6 | 11.2 | 12.4 |
| | 6H | 11.4 | 11.9 | 12.4 | 12.9 | 14.2 | 11.4 | 11.9 | 12.4 | 12.9 | 14.2 |
| | 8H | 12.4 | 12.8 | 13.4 | 13.8 | 15.1 | 12.4 | 12.8 | 13.4 | 13.8 | 15.1 |

(END OF REPORT)