

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: P1245447

Luminaire Tested: PRLX-UNA-S-927-05L-U-OW

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1245447  
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-927-05L-U-OW  
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE  
LIGHT LEVEL 2  
Light Source: -  
Ballast/Driver: -

**Summary**

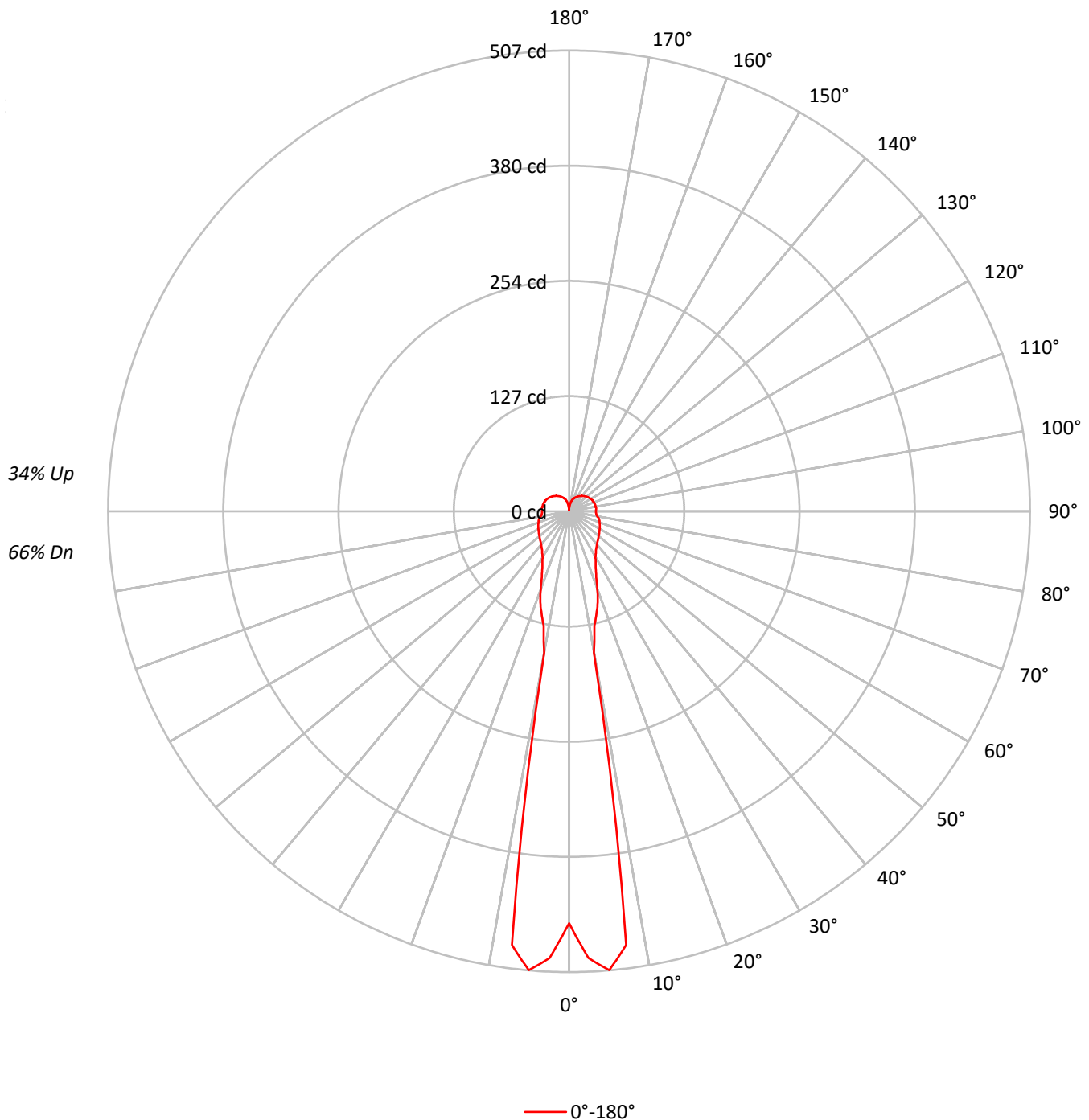
Lumens per Lamp: N/A  
Luminaire Lumens: 473.8 lumens  
Efficiency: N/A  
Efficacy: 42.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34  
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')  
CIE Type: Semi-Direct

Input Watts (W): 11.1  
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 |  | 39 | 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°  | 22196 |
| 5°  | 20597 |
| 10° | 5515  |
| 15° | 3599  |
| 20° | 2529  |
| 25° | 1768  |
| 30° | 1378  |
| 35° | 1153  |
| 40° | 1012  |
| 45° | 915   |
| 50° | 839   |
| 55° | 781   |
| 60° | 739   |
| 65° | 703   |
| 70° | 673   |
| 75° | 648   |
| 80° | 610   |
| 85° | 593   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 915 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.8   | 8.4       |
| 10°-20°   | 32.8   | 6.9       |
| 20°-30°   | 32.6   | 6.9       |
| 30°-40°   | 32.7   | 6.9       |
| 40°-50°   | 34.8   | 7.3       |
| 50°-60°   | 36.4   | 7.7       |
| 60°-70°   | 37.0   | 7.8       |
| 70°-80°   | 36.0   | 7.6       |
| 80°-90°   | 32.9   | 6.9       |
| 90°-100°  | 32.5   | 6.9       |
| 100°-110° | 31.2   | 6.6       |
| 110°-120° | 28.2   | 6.0       |
| 120°-130° | 23.6   | 5.0       |
| 130°-140° | 18.3   | 3.9       |
| 140°-150° | 12.9   | 2.7       |
| 150°-160° | 7.9    | 1.7       |
| 160°-170° | 3.6    | 0.8       |
| 170°-180° | 0.6    | 0.1       |
| 0°-30°    | 105.2  | 22.2      |
| 0°-40°    | 137.9  | 29.1      |
| 0°-60°    | 209.1  | 44.1      |
| 0°-90°    | 315.1  | 66.5      |
| 90°-120°  | 91.9   | 19.4      |
| 90°-150°  | 146.7  | 30.9      |
| 90°-180°  | 159.0  | 33.6      |
| 0°-180°   | 473.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | Flux |
|------|-----|------|
| 0°   | 453 |      |
| 5°   | 507 | 40   |
| 15°  | 117 | 33   |
| 25°  | 69  | 33   |
| 35°  | 52  | 33   |
| 45°  | 45  | 35   |
| 55°  | 40  | 36   |
| 65°  | 37  | 37   |
| 75°  | 34  | 36   |
| 85°  | 30  | 25   |
| 90°  | 30  | 16   |
| 95°  | 30  | 24   |
| 105° | 30  | 31   |
| 115° | 28  | 28   |
| 125° | 26  | 24   |
| 135° | 24  | 18   |
| 145° | 20  | 13   |
| 155° | 17  | 8    |
| 165° | 13  | 4    |
| 175° | 5   | 1    |
| 180° | 1   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |       |
|--------|-------|
| 0°     | 453.1 |
| 2.5°   | 492.0 |
| 5°     | 506.8 |
| 7.5°   | 481.2 |
| 10°    | 157.8 |
| 12.5°  | 129.0 |
| 15°    | 116.6 |
| 17.5°  | 105.0 |
| 20°    | 90.9  |
| 22.5°  | 78.1  |
| 25°    | 69.3  |
| 27.5°  | 63.3  |
| 30°    | 58.1  |
| 32.5°  | 54.9  |
| 35°    | 51.7  |
| 37.5°  | 49.7  |
| 40°    | 47.7  |
| 42.5°  | 46.1  |
| 45°    | 44.9  |
| 47.5°  | 43.7  |
| 50°    | 42.5  |
| 52.5°  | 41.7  |
| 55°    | 40.5  |
| 57.5°  | 39.7  |
| 60°    | 38.9  |
| 62.5°  | 38.1  |
| 65°    | 37.3  |
| 67.5°  | 36.5  |
| 70°    | 35.7  |
| 72.5°  | 35.3  |
| 75°    | 34.1  |
| 77.5°  | 33.3  |
| 80°    | 31.6  |
| 82.5°  | 30.4  |
| 85°    | 30.0  |
| 87.5°  | 29.6  |
| 90°    | 29.6  |
| 92.5°  | 29.6  |
| 95°    | 30.0  |
| 97.5°  | 30.0  |
| 100°   | 29.6  |
| 102.5° | 29.6  |
| 105°   | 29.6  |
| 107.5° | 29.2  |
| 110°   | 29.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 28.8 |
| 115°   | 28.4 |
| 117.5° | 28.0 |
| 120°   | 27.6 |
| 122.5° | 26.8 |
| 125°   | 26.4 |
| 127.5° | 25.6 |
| 130°   | 25.2 |
| 132.5° | 24.4 |
| 135°   | 23.6 |
| 137.5° | 22.8 |
| 140°   | 22.0 |
| 142.5° | 21.2 |
| 145°   | 20.4 |
| 147.5° | 19.6 |
| 150°   | 18.8 |
| 152.5° | 18.0 |
| 155°   | 16.8 |
| 157.5° | 16.0 |
| 160°   | 14.8 |
| 162.5° | 14.0 |
| 165°   | 12.8 |
| 167.5° | 11.2 |
| 170°   | 9.2  |
| 172.5° | 7.2  |
| 175°   | 4.8  |
| 177.5° | 2.4  |
| 180°   | 1.2  |

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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 | 7.2              | 8.3  | 8.0  | 9.1  | 10.1 | 7.2            | 8.3  | 8.0  | 9.1  | 10.1 |
|                 | 3H   | 9.6              | 10.6 | 10.4 | 11.4 | 12.5 | 9.6            | 10.6 | 10.4 | 11.4 | 12.5 |
|                 | 4H   | 10.8             | 11.7 | 11.6 | 12.6 | 13.6 | 10.8           | 11.7 | 11.6 | 12.6 | 13.6 |
|                 | 6H   | 11.9             | 12.8 | 12.7 | 13.6 | 14.7 | 11.9           | 12.8 | 12.7 | 13.6 | 14.7 |
|                 | 8H   | 12.4             | 13.2 | 13.2 | 14.1 | 15.2 | 12.4           | 13.2 | 13.2 | 14.1 | 15.2 |
|                 | 12H  | 12.9             | 13.7 | 13.7 | 14.6 | 15.7 | 12.9           | 13.7 | 13.7 | 14.6 | 15.7 |
| 4H              | 2H   | 7.8              | 8.7  | 8.6  | 9.6  | 10.6 | 7.8            | 8.7  | 8.6  | 9.6  | 10.6 |
|                 | 3H   | 10.5             | 11.3 | 11.3 | 12.1 | 13.2 | 10.5           | 11.3 | 11.3 | 12.1 | 13.2 |
|                 | 4H   | 11.8             | 12.5 | 12.6 | 13.4 | 14.5 | 11.8           | 12.5 | 12.6 | 13.4 | 14.5 |
|                 | 6H   | 13.1             | 13.7 | 13.9 | 14.6 | 15.7 | 13.1           | 13.7 | 13.9 | 14.6 | 15.7 |
|                 | 8H   | 13.7             | 14.3 | 14.5 | 15.2 | 16.3 | 13.7           | 14.3 | 14.5 | 15.2 | 16.3 |
|                 | 12H  | 14.3             | 14.8 | 15.1 | 15.7 | 16.8 | 14.3           | 14.8 | 15.1 | 15.7 | 16.8 |
| 8H              | 4H   | 12.2             | 12.8 | 13.1 | 13.7 | 14.8 | 12.2           | 12.8 | 13.1 | 13.7 | 14.8 |
|                 | 6H   | 13.7             | 14.2 | 14.6 | 15.1 | 16.2 | 13.7           | 14.2 | 14.6 | 15.1 | 16.2 |
|                 | 8H   | 14.4             | 14.9 | 15.3 | 15.8 | 16.9 | 14.4           | 14.9 | 15.3 | 15.8 | 16.9 |
|                 | 12H  | 15.2             | 15.6 | 16.1 | 16.5 | 17.7 | 15.2           | 15.6 | 16.1 | 16.5 | 17.7 |
| 12H             | 4H   | 12.3             | 12.9 | 13.2 | 13.8 | 14.9 | 12.3           | 12.9 | 13.2 | 13.8 | 14.9 |
|                 | 6H   | 13.8             | 14.3 | 14.7 | 15.2 | 16.4 | 13.8           | 14.3 | 14.7 | 15.2 | 16.4 |
|                 | 8H   | 14.6             | 15.0 | 15.5 | 16.0 | 17.1 | 14.6           | 15.0 | 15.5 | 16.0 | 17.1 |

(END OF REPORT)