

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: P600633

Luminaire Tested: PRLX-235-90-40K-LL2-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/6/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PentaLux  
Catalog Number: PRLX-235-90-40K-LL2-UNV-STD-X-X-WHHR-SR-X  
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1667.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

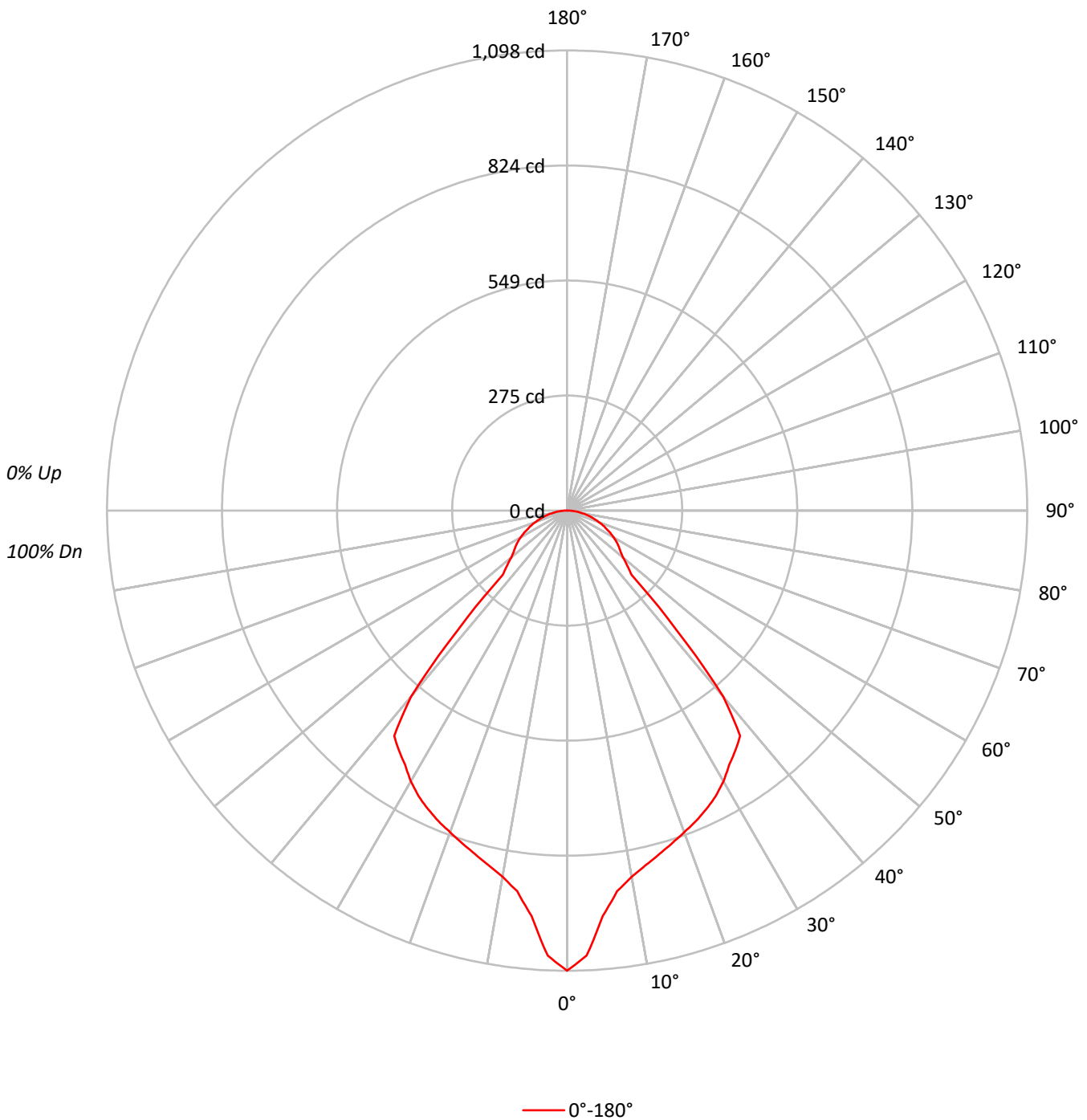
Input Watts (W): 12.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 88  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |
| 4   | 89  | 79  | 71  | 65  | 87  | 77  | 70  | 65  | 75  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 63  | 61  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |
| 6   | 77  | 66  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 52  | 61  | 56  | 51  | 60  | 55  | 51  | 49  |
| 7   | 72  | 60  | 53  | 47  | 71  | 60  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 44  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 41  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 8464 |
| 5°  | 7516 |
| 10° | 6943 |
| 15° | 6774 |
| 20° | 6701 |
| 25° | 6686 |
| 30° | 6640 |
| 35° | 6582 |
| 40° | 5834 |
| 45° | 2375 |
| 50° | 2090 |
| 55° | 2023 |
| 60° | 1980 |
| 65° | 1897 |
| 70° | 1819 |
| 75° | 1748 |
| 80° | 1678 |
| 85° | 1645 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2375 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.4   | 5.4       |
| 10°-20°   | 239.9  | 14.4      |
| 20°-30°   | 362.1  | 21.7      |
| 30°-40°   | 431.8  | 25.9      |
| 40°-50°   | 223.3  | 13.4      |
| 50°-60°   | 134.7  | 8.1       |
| 60°-70°   | 103.2  | 6.2       |
| 70°-80°   | 61.9   | 3.7       |
| 80°-90°   | 20.3   | 1.2       |
| 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°    | 692.5  | 41.5      |
| 0°-40°    | 1124.3 | 67.4      |
| 0°-60°    | 1482.2 | 88.9      |
| 0°-90°    | 1667.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1667.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1098 |      |
| 5°  | 971  | 90   |
| 15° | 849  | 240  |
| 25° | 786  | 362  |
| 35° | 699  | 432  |
| 45° | 218  | 223  |
| 55° | 150  | 135  |
| 65° | 104  | 103  |
| 75° | 59   | 62   |
| 85° | 19   | 20   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1097.9 |
| 2.5°  | 1063.1 |
| 5°    | 971.3  |
| 7.5°  | 915.5  |
| 10°   | 887.0  |
| 12.5° | 866.7  |
| 15°   | 848.7  |
| 17.5° | 832.4  |
| 20°   | 816.8  |
| 22.5° | 802.2  |
| 25°   | 786.0  |
| 27.5° | 768.0  |
| 30°   | 745.9  |
| 32.5° | 719.7  |
| 35°   | 699.4  |
| 37.5° | 677.9  |
| 40°   | 579.7  |
| 42.5° | 386.3  |
| 45°   | 217.8  |
| 47.5° | 194.0  |
| 50°   | 174.3  |
| 52.5° | 160.3  |
| 55°   | 150.5  |
| 57.5° | 140.0  |
| 60°   | 128.4  |
| 62.5° | 116.2  |
| 65°   | 104.0  |
| 67.5° | 92.4   |
| 70°   | 80.7   |
| 72.5° | 69.1   |
| 75°   | 58.7   |
| 77.5° | 47.6   |
| 80°   | 37.8   |
| 82.5° | 27.9   |
| 85°   | 18.6   |
| 87.5° | 9.3    |
| 90°   | 0.0    |

(END OF REPORT)