

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: G2-2210-802-33

Luminaire Tested: PRLX-411-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/7/2023



**Test Information**

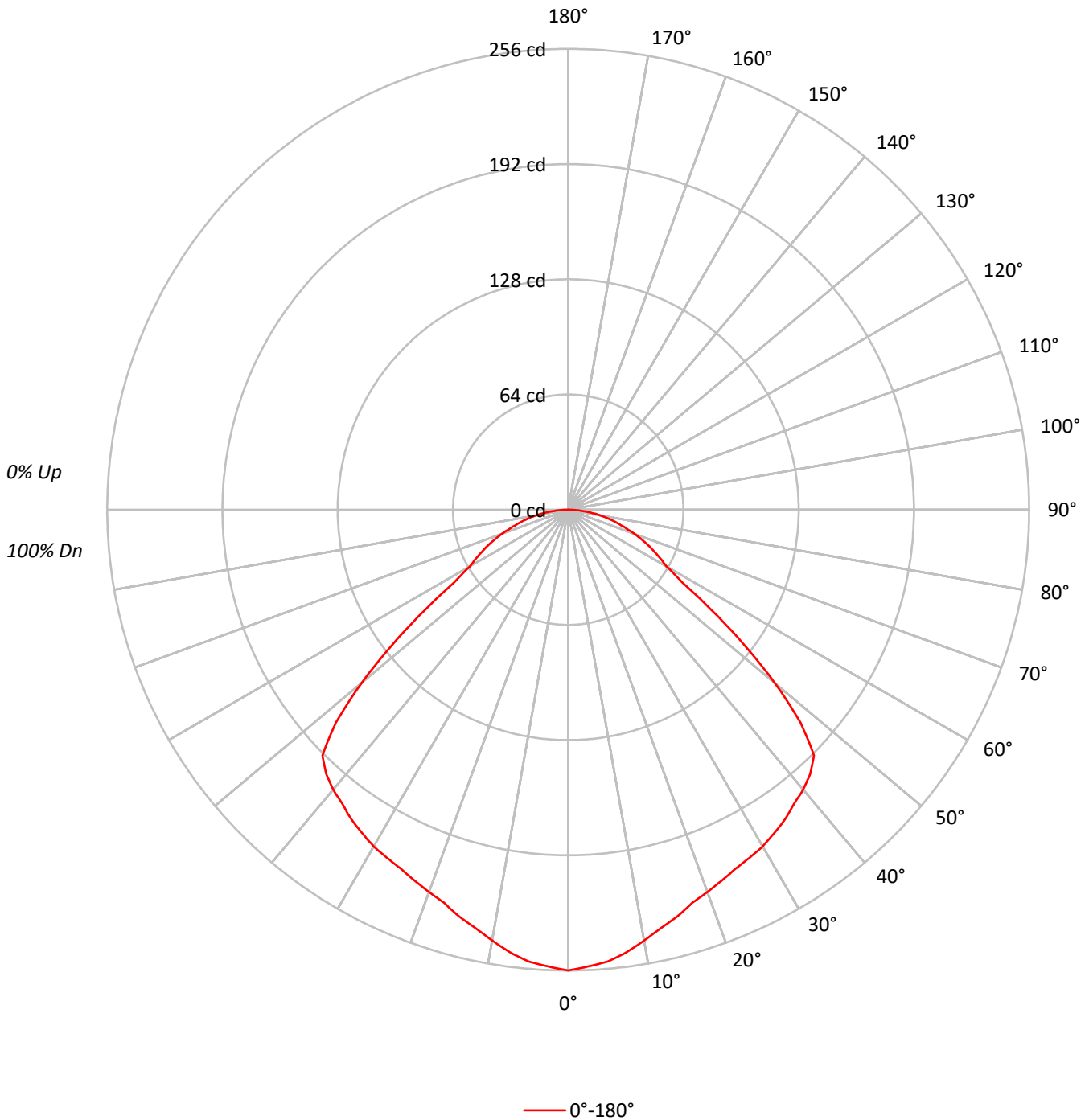
Test Method: LM-79-2019  
Report Number: G2-2210-802-33  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/7/2023  
Issue Date: 1/7/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-411-FR-120-WHST-RHL-TFIN-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS 60W FROSTED BULB  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 645.3 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')  
CIE Type: Direct  
  
Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0692  
Voltage Rise (V): NR  
Power Factor: 0.9546  
Total Harmonic Distortion (THDi): 22.8%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.4  
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   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  |  | 95  | 93  | 91  |  | 92  | 90  | 88  | 86  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 81  | 88  | 83  | 79  |  | 84  | 80  | 77  |  | 81  | 78  | 75  | 73  |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  |  | 75  | 70  | 66  |  | 73  | 69  | 65  | 63  |
| 4   | 85  | 74  | 65  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  |  | 68  | 62  | 57  |  | 65  | 60  | 56  | 54  |
| 5   | 78  | 66  | 58  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  |  | 61  | 55  | 50  |  | 59  | 54  | 49  | 47  |
| 6   | 72  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 44  |  | 55  | 49  | 44  |  | 54  | 48  | 44  | 42  |
| 7   | 67  | 54  | 46  | 40  | 66  | 53  | 45  | 40  | 52  | 45  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 39  | 37  |
| 8   | 63  | 49  | 41  | 36  | 61  | 49  | 41  | 35  | 48  | 40  | 35  |  | 46  | 40  | 35  |  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  | 36  | 31  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 39  | 33  | 29  | 27  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 2578 |
| 5°  | 2292 |
| 10° | 2029 |
| 15° | 1819 |
| 20° | 1655 |
| 25° | 1534 |
| 30° | 1447 |
| 35° | 1365 |
| 40° | 1290 |
| 45° | 1209 |
| 50° | 933  |
| 55° | 604  |
| 60° | 396  |
| 65° | 326  |
| 70° | 255  |
| 75° | 189  |
| 80° | 127  |
| 85° | 59   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1209 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.8   | 3.7       |
| 10°-20°   | 66.0   | 10.2      |
| 20°-30°   | 101.9  | 15.8      |
| 30°-40°   | 131.5  | 20.4      |
| 40°-50°   | 143.4  | 22.2      |
| 50°-60°   | 89.3   | 13.8      |
| 60°-70°   | 50.5   | 7.8       |
| 70°-80°   | 29.7   | 4.6       |
| 80°-90°   | 9.3    | 1.4       |
| 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°    | 191.7  | 29.7      |
| 0°-40°    | 323.3  | 50.1      |
| 0°-60°    | 555.9  | 86.1      |
| 0°-90°    | 645.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 645.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 256 |      |
| 5°  | 252 | 24   |
| 15° | 234 | 66   |
| 25° | 220 | 102  |
| 35° | 210 | 132  |
| 45° | 193 | 143  |
| 55° | 97  | 89   |
| 65° | 51  | 50   |
| 75° | 28  | 30   |
| 85° | 8   | 9    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  |
|-------|-----|
| 0°    | 256 |
| 2.5°  | 254 |
| 5°    | 252 |
| 7.5°  | 248 |
| 10°   | 243 |
| 12.5° | 238 |
| 15°   | 234 |
| 17.5° | 229 |
| 20°   | 226 |
| 22.5° | 223 |
| 25°   | 220 |
| 27.5° | 218 |
| 30°   | 216 |
| 32.5° | 213 |
| 35°   | 210 |
| 37.5° | 206 |
| 40°   | 203 |
| 42.5° | 199 |
| 45°   | 193 |
| 47.5° | 175 |
| 50°   | 150 |
| 52.5° | 123 |
| 55°   | 97  |
| 57.5° | 75  |
| 60°   | 63  |
| 62.5° | 57  |
| 65°   | 51  |
| 67.5° | 45  |
| 70°   | 39  |
| 72.5° | 33  |
| 75°   | 28  |
| 77.5° | 23  |
| 80°   | 18  |
| 82.5° | 13  |
| 85°   | 8   |
| 87.5° | 4   |
| 90°   | 0   |

(END OF REPORT)