

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: G2-2210-802-19

Luminaire Tested: PRLX-401-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 01/03/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-19
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/03/23
Issue Date: 01/03/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-401-FIL-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS 60W CLEAR BULB
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

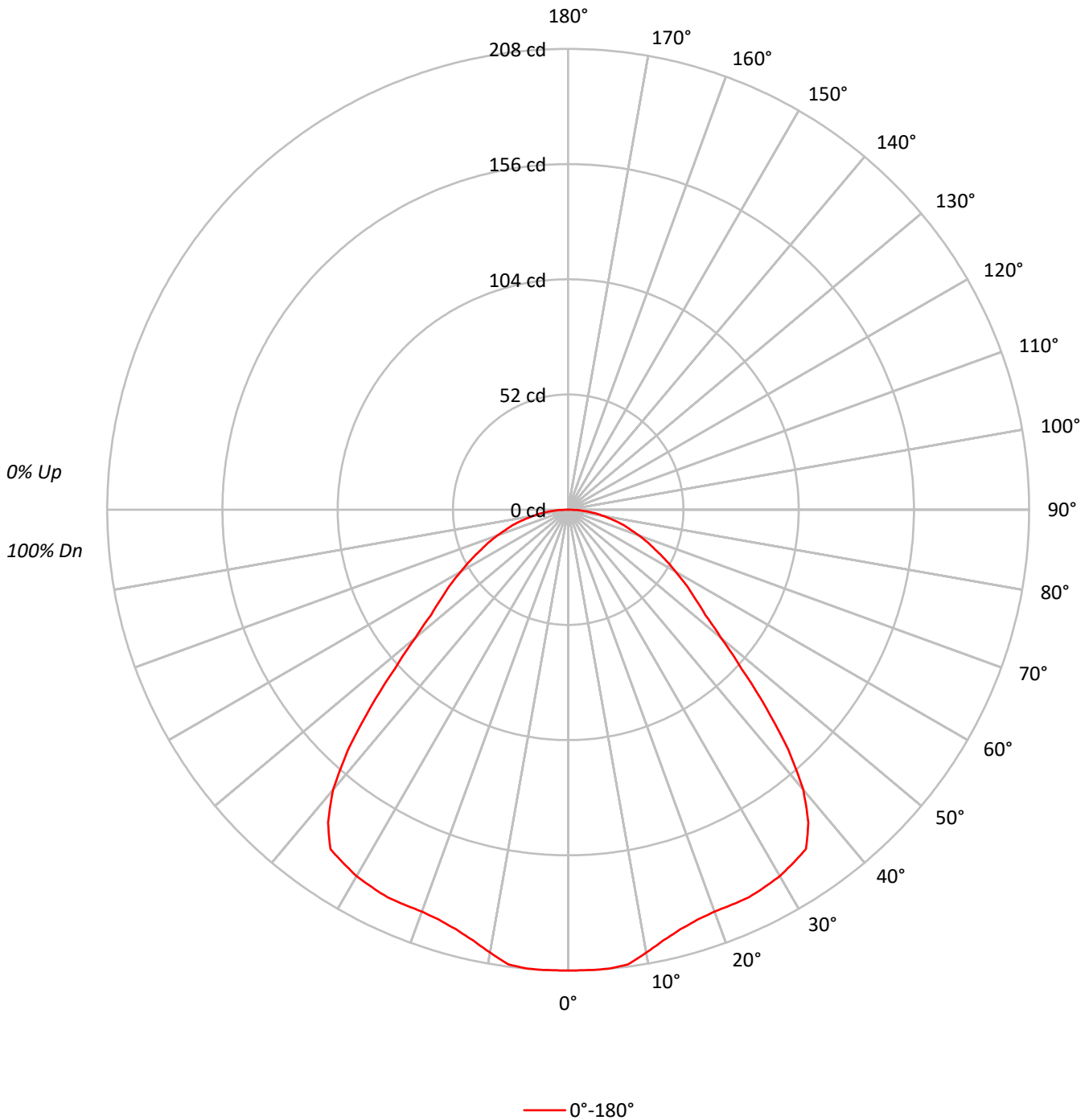
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 518.6 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.35
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.1
Input Current (A_{in}): 0.0792
Voltage Rise (V): NR
Power Factor: 0.816
Total Harmonic Distortion (THDi): 70.4%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.5
Test Distance: 24 FT

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Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-19

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 89 | 88 | 86 | | | | 86 |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 81 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | | 73 |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 63 | | | | 63 |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 64 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | 55 |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 63 | 56 | 51 | 62 | 55 | 51 | 60 | 54 | 50 | 48 | | | | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 54 | 49 | 44 | 42 | | | | 42 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 |
| 8 | 63 | 50 | 42 | 37 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | 31 | | | | 31 |
| 10 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 28 | | | | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 6414 |
| 5° | 5583 |
| 10° | 4857 |
| 15° | 4259 |
| 20° | 3868 |
| 25° | 3615 |
| 30° | 3382 |
| 35° | 3163 |
| 40° | 2690 |
| 45° | 1998 |
| 50° | 1399 |
| 55° | 1075 |
| 60° | 856 |
| 65° | 675 |
| 70° | 528 |
| 75° | 395 |
| 80° | 260 |
| 85° | 135 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1998 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.7 | 3.8 |
| 10°-20° | 55.6 | 10.7 |
| 20°-30° | 89.1 | 17.2 |
| 30°-40° | 114.7 | 22.1 |
| 40°-50° | 97.2 | 18.8 |
| 50°-60° | 63.4 | 12.2 |
| 60°-70° | 44.0 | 8.5 |
| 70°-80° | 26.1 | 5.0 |
| 80°-90° | 8.7 | 1.7 |
| 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° | 164.4 | 31.7 |
| 0°-40° | 279.1 | 53.8 |
| 0°-60° | 439.7 | 84.8 |
| 0°-90° | 518.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 518.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 208 | |
| 5° | 208 | 20 |
| 15° | 196 | 56 |
| 25° | 193 | 89 |
| 35° | 187 | 115 |
| 45° | 126 | 97 |
| 55° | 70 | 63 |
| 65° | 44 | 44 |
| 75° | 25 | 26 |
| 85° | 8 | 9 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-----|
| 0° | 208 |
| 2.5° | 208 |
| 5° | 208 |
| 7.5° | 207 |
| 10° | 203 |
| 12.5° | 199 |
| 15° | 196 |
| 17.5° | 194 |
| 20° | 193 |
| 22.5° | 193 |
| 25° | 193 |
| 27.5° | 192 |
| 30° | 191 |
| 32.5° | 189 |
| 35° | 187 |
| 37.5° | 178 |
| 40° | 165 |
| 42.5° | 147 |
| 45° | 126 |
| 47.5° | 106 |
| 50° | 90 |
| 52.5° | 78 |
| 55° | 70 |
| 57.5° | 63 |
| 60° | 56 |
| 62.5° | 50 |
| 65° | 44 |
| 67.5° | 39 |
| 70° | 34 |
| 72.5° | 29 |
| 75° | 25 |
| 77.5° | 20 |
| 80° | 16 |
| 82.5° | 12 |
| 85° | 8 |
| 87.5° | 4 |
| 90° | 0 |

(END OF REPORT)