

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: P600730

Luminaire Tested: PRLX-215-90-40K-LL3-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PentaLux
Catalog Number: PRLX-215-90-40K-LL3-UNV-STD-X-X-WHHR-BR-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: 1937.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

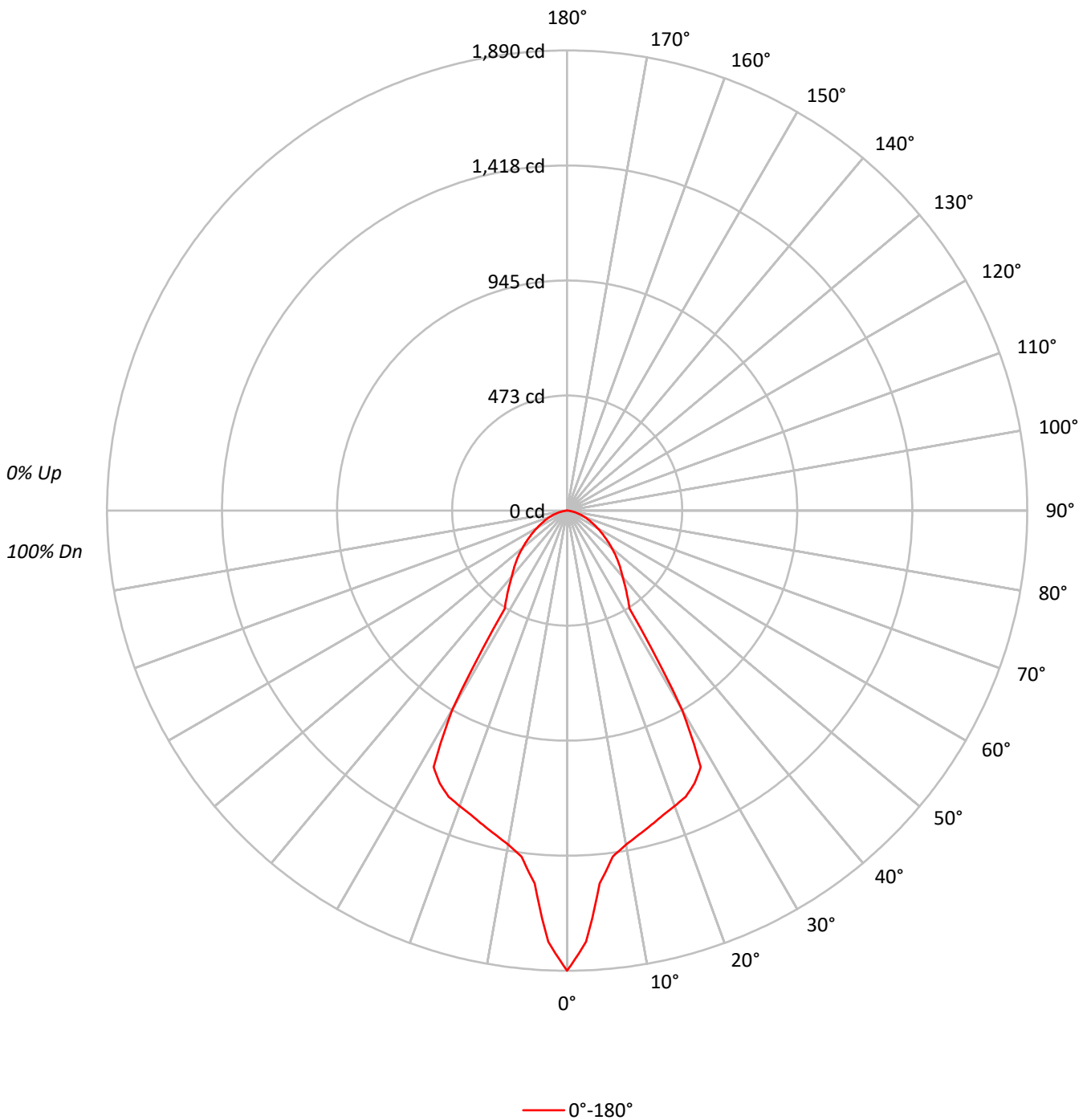
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | | 98 | 96 | 94 | | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 87 | 93 | 89 | 86 | | 90 | 87 | 84 | | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | | 82 | 78 | 75 | | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | | 76 | 71 | 67 | | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | | 70 | 65 | 61 | | 69 | 64 | 61 | 59 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | | 66 | 60 | 56 | | 64 | 59 | 56 | 54 |
| 7 | 76 | 65 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | | 61 | 56 | 52 | | 60 | 55 | 51 | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | | 57 | 52 | 48 | | 56 | 51 | 47 | 46 |
| 9 | 68 | 56 | 49 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | | 54 | 48 | 44 | | 53 | 48 | 44 | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 46 | 42 | | 51 | 45 | 41 | | 50 | 45 | 41 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 25898 |
| 5° | 21141 |
| 10° | 19383 |
| 15° | 18962 |
| 20° | 18830 |
| 25° | 18706 |
| 30° | 14960 |
| 35° | 7223 |
| 40° | 6330 |
| 45° | 5747 |
| 50° | 5102 |
| 55° | 4483 |
| 60° | 3922 |
| 65° | 3428 |
| 70° | 2993 |
| 75° | 2526 |
| 80° | 1760 |
| 85° | 629 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5747 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.9 | 7.4 |
| 10°-20° | 377.8 | 19.5 |
| 20°-30° | 553.5 | 28.6 |
| 30°-40° | 300.8 | 15.5 |
| 40°-50° | 228.3 | 11.8 |
| 50°-60° | 168.8 | 8.7 |
| 60°-70° | 106.1 | 5.5 |
| 70°-80° | 50.7 | 2.6 |
| 80°-90° | 8.0 | 0.4 |
| 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° | 1075.2 | 55.5 |
| 0°-40° | 1376.0 | 71.0 |
| 0°-60° | 1773.1 | 91.5 |
| 0°-90° | 1937.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1937.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1890 | |
| 5° | 1537 | 144 |
| 15° | 1336 | 378 |
| 25° | 1237 | 553 |
| 35° | 432 | 301 |
| 45° | 296 | 228 |
| 55° | 188 | 169 |
| 65° | 106 | 106 |
| 75° | 48 | 51 |
| 85° | 4 | 8 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1889.7 |
| 2.5° | 1772.9 |
| 5° | 1536.7 |
| 7.5° | 1433.4 |
| 10° | 1392.8 |
| 12.5° | 1363.4 |
| 15° | 1336.4 |
| 17.5° | 1311.0 |
| 20° | 1291.1 |
| 22.5° | 1272.0 |
| 25° | 1237.0 |
| 27.5° | 1187.7 |
| 30° | 945.3 |
| 32.5° | 477.0 |
| 35° | 431.7 |
| 37.5° | 390.3 |
| 40° | 353.8 |
| 42.5° | 324.4 |
| 45° | 296.5 |
| 47.5° | 267.9 |
| 50° | 239.3 |
| 52.5° | 213.1 |
| 55° | 187.6 |
| 57.5° | 164.6 |
| 60° | 143.1 |
| 62.5° | 124.0 |
| 65° | 105.7 |
| 67.5° | 90.6 |
| 70° | 74.7 |
| 72.5° | 61.2 |
| 75° | 47.7 |
| 77.5° | 35.0 |
| 80° | 22.3 |
| 82.5° | 12.7 |
| 85° | 4.0 |
| 87.5° | 1.6 |
| 90° | 0.0 |

(END OF REPORT)