

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: P600667

Luminaire Tested: PRLX-215-90-27K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600667
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-215-90-27K-LL6-UNV-STD-X-X-WHHR-BR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

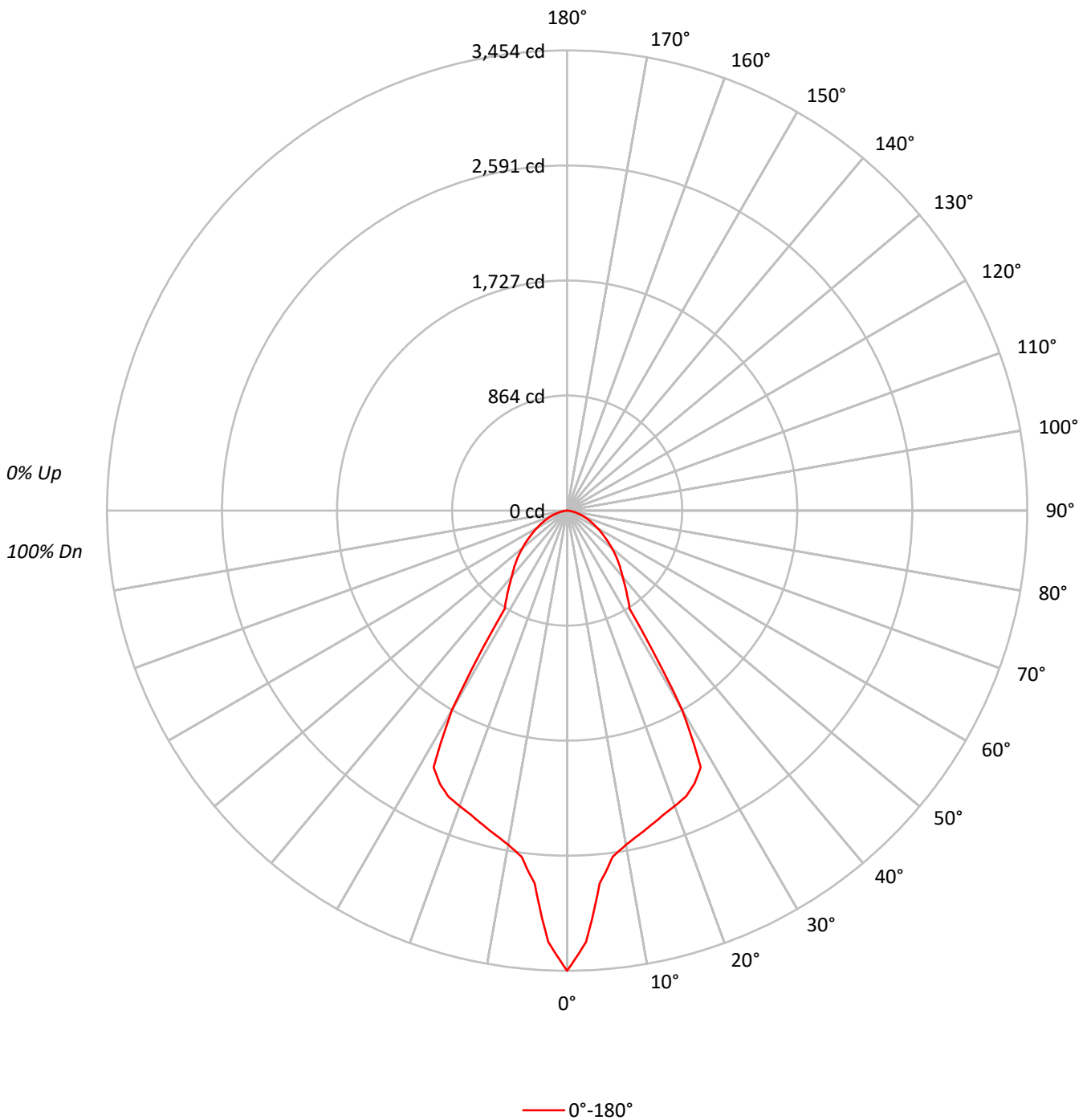
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 47339 |
| 5° | 38643 |
| 10° | 35430 |
| 15° | 34658 |
| 20° | 34418 |
| 25° | 34192 |
| 30° | 27343 |
| 35° | 13201 |
| 40° | 11568 |
| 45° | 10505 |
| 50° | 9326 |
| 55° | 8193 |
| 60° | 7170 |
| 65° | 6269 |
| 70° | 5474 |
| 75° | 4617 |
| 80° | 3212 |
| 85° | 1148 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10505 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 263.0 | 7.4 |
| 10°-20° | 690.6 | 19.5 |
| 20°-30° | 1011.6 | 28.6 |
| 30°-40° | 549.8 | 15.5 |
| 40°-50° | 417.3 | 11.8 |
| 50°-60° | 308.6 | 8.7 |
| 60°-70° | 194.0 | 5.5 |
| 70°-80° | 92.6 | 2.6 |
| 80°-90° | 14.6 | 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° | 1965.2 | 55.5 |
| 0°-40° | 2515.0 | 71.0 |
| 0°-60° | 3240.9 | 91.5 |
| 0°-90° | 3542.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3542.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3454 | |
| 5° | 2809 | 263 |
| 15° | 2443 | 691 |
| 25° | 2261 | 1012 |
| 35° | 789 | 550 |
| 45° | 542 | 417 |
| 55° | 343 | 309 |
| 65° | 193 | 194 |
| 75° | 87 | 93 |
| 85° | 7 | 15 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3454.1 |
| 2.5° | 3240.5 |
| 5° | 2808.9 |
| 7.5° | 2620.0 |
| 10° | 2545.9 |
| 12.5° | 2492.1 |
| 15° | 2442.7 |
| 17.5° | 2396.2 |
| 20° | 2359.9 |
| 22.5° | 2325.0 |
| 25° | 2261.1 |
| 27.5° | 2171.0 |
| 30° | 1727.8 |
| 32.5° | 871.9 |
| 35° | 789.0 |
| 37.5° | 713.5 |
| 40° | 646.6 |
| 42.5° | 592.9 |
| 45° | 542.0 |
| 47.5° | 489.7 |
| 50° | 437.4 |
| 52.5° | 389.4 |
| 55° | 342.9 |
| 57.5° | 300.8 |
| 60° | 261.6 |
| 62.5° | 226.7 |
| 65° | 193.3 |
| 67.5° | 165.7 |
| 70° | 136.6 |
| 72.5° | 111.9 |
| 75° | 87.2 |
| 77.5° | 63.9 |
| 80° | 40.7 |
| 82.5° | 23.3 |
| 85° | 7.3 |
| 87.5° | 2.9 |
| 90° | 0.0 |

(END OF REPORT)