

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: P600625

Luminaire Tested: PRLX-235-90-35K-LL8-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600625
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-235-90-35K-LL8-UNV-STD-X-X-WHHR-BR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

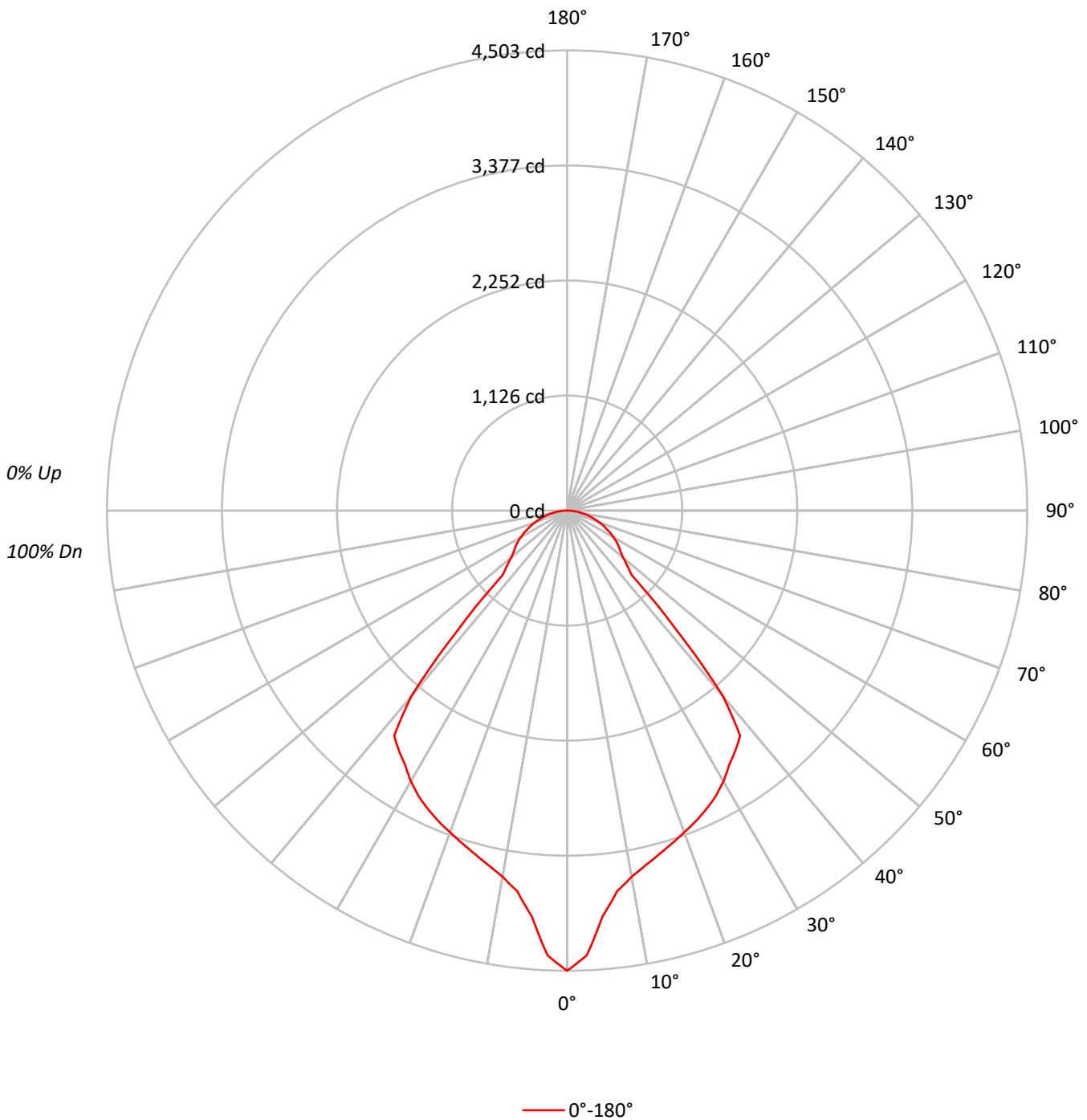
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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° | 34714 |
| 5° | 30827 |
| 10° | 28479 |
| 15° | 27781 |
| 20° | 27481 |
| 25° | 27420 |
| 30° | 27232 |
| 35° | 26997 |
| 40° | 23929 |
| 45° | 9740 |
| 50° | 8573 |
| 55° | 8294 |
| 60° | 8118 |
| 65° | 7780 |
| 70° | 7465 |
| 75° | 7166 |
| 80° | 6877 |
| 85° | 6740 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9740 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 370.9 | 5.4 |
| 10°-20° | 984.0 | 14.4 |
| 20°-30° | 1485.2 | 21.7 |
| 30°-40° | 1771.1 | 25.9 |
| 40°-50° | 915.9 | 13.4 |
| 50°-60° | 552.4 | 8.1 |
| 60°-70° | 423.3 | 6.2 |
| 70°-80° | 253.9 | 3.7 |
| 80°-90° | 83.3 | 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° | 2840.1 | 41.5 |
| 0°-40° | 4611.2 | 67.4 |
| 0°-60° | 6079.4 | 88.9 |
| 0°-90° | 6839.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6839.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4503 | |
| 5° | 3984 | 371 |
| 15° | 3481 | 984 |
| 25° | 3224 | 1485 |
| 35° | 2869 | 1771 |
| 45° | 893 | 916 |
| 55° | 617 | 552 |
| 65° | 426 | 423 |
| 75° | 241 | 254 |
| 85° | 76 | 83 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4503.0 |
| 2.5° | 4360.0 |
| 5° | 3983.6 |
| 7.5° | 3754.9 |
| 10° | 3638.1 |
| 12.5° | 3554.7 |
| 15° | 3480.9 |
| 17.5° | 3414.2 |
| 20° | 3349.8 |
| 22.5° | 3290.3 |
| 25° | 3223.6 |
| 27.5° | 3149.7 |
| 30° | 3059.2 |
| 32.5° | 2952.0 |
| 35° | 2868.6 |
| 37.5° | 2780.4 |
| 40° | 2377.8 |
| 42.5° | 1584.4 |
| 45° | 893.4 |
| 47.5° | 795.8 |
| 50° | 714.8 |
| 52.5° | 657.6 |
| 55° | 617.1 |
| 57.5° | 574.2 |
| 60° | 526.5 |
| 62.5° | 476.5 |
| 65° | 426.5 |
| 67.5° | 378.8 |
| 70° | 331.2 |
| 72.5° | 283.5 |
| 75° | 240.6 |
| 77.5° | 195.4 |
| 80° | 154.9 |
| 82.5° | 114.4 |
| 85° | 76.2 |
| 87.5° | 38.1 |
| 90° | 0.0 |

(END OF REPORT)