

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979391

Luminaire Tested: PRLX-240-930-LL6-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-LL6-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

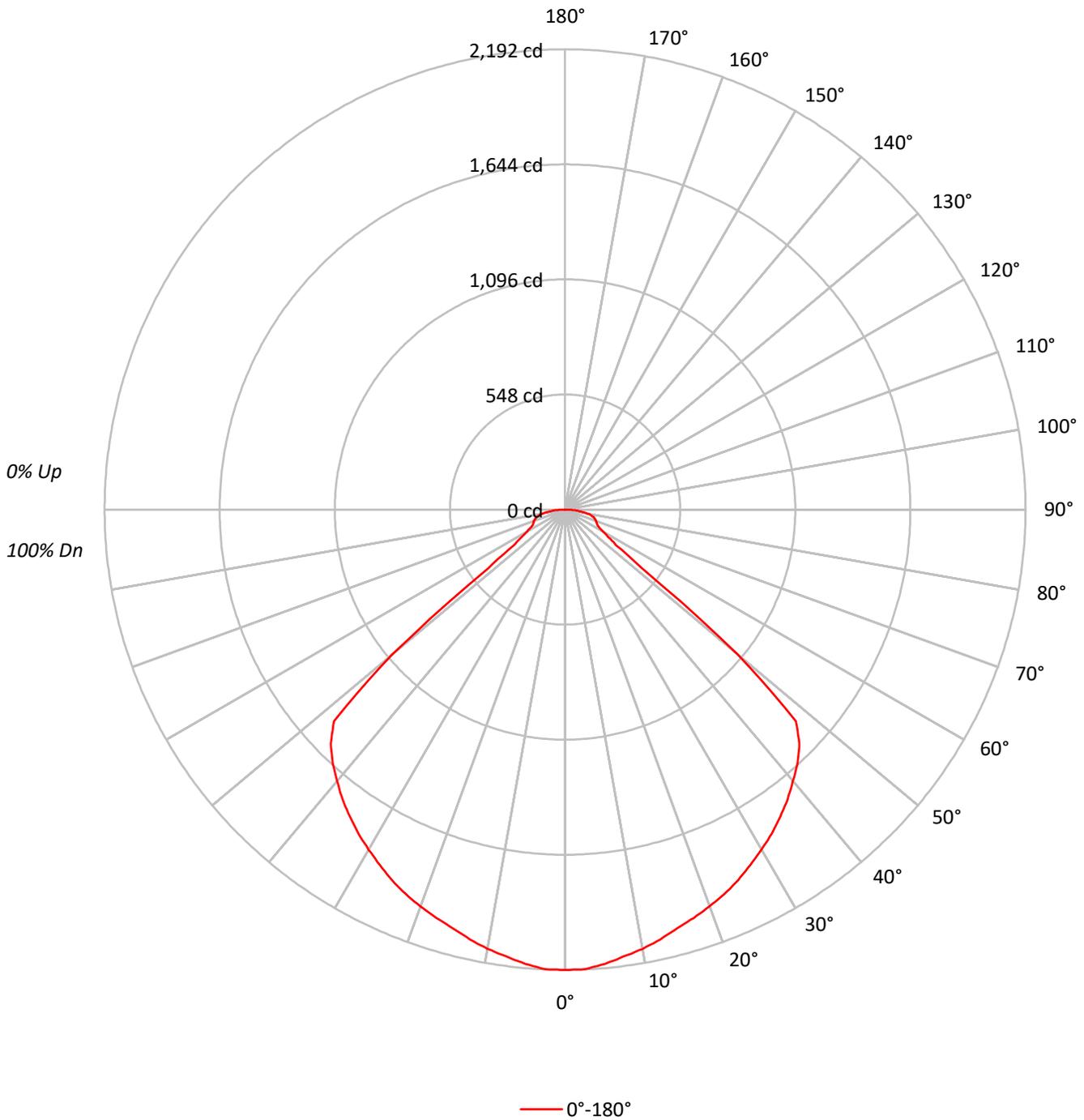
Lumens per Lamp: N/A
Luminaire Lumens: 4718.7 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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





TEST NUMBER: P979391

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|---|----|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 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 | 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 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 62 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 71 | 63 | 57 | 80 | 69 | 62 | 57 | 67 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 22076 |
| 5° | 21951 |
| 10° | 21721 |
| 15° | 21513 |
| 20° | 21543 |
| 25° | 21647 |
| 30° | 21742 |
| 35° | 21950 |
| 40° | 22187 |
| 45° | 22457 |
| 50° | 16778 |
| 55° | 5221 |
| 60° | 4171 |
| 65° | 4019 |
| 70° | 4616 |
| 75° | 5466 |
| 80° | 6262 |
| 85° | 6158 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22457 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 205.7 | 4.4 |
| 10°-20° | 584.1 | 12.4 |
| 20°-30° | 898.3 | 19.0 |
| 30°-40° | 1118.3 | 23.7 |
| 40°-50° | 1173.1 | 24.9 |
| 50°-60° | 362.7 | 7.7 |
| 60°-70° | 171.9 | 3.6 |
| 70°-80° | 145.2 | 3.1 |
| 80°-90° | 59.4 | 1.3 |
| 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° | 1688.1 | 35.8 |
| 0°-40° | 2806.4 | 59.5 |
| 0°-60° | 4342.2 | 92.0 |
| 0°-90° | 4718.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4718.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2192 | |
| 5° | 2172 | 206 |
| 15° | 2064 | 584 |
| 25° | 1948 | 898 |
| 35° | 1786 | 1118 |
| 45° | 1577 | 1173 |
| 55° | 297 | 363 |
| 65° | 169 | 172 |
| 75° | 140 | 145 |
| 85° | 53 | 59 |
| 90° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2192.5 |
| 2.5° | 2191.0 |
| 5° | 2171.8 |
| 7.5° | 2146.6 |
| 10° | 2124.4 |
| 12.5° | 2096.3 |
| 15° | 2063.8 |
| 17.5° | 2038.6 |
| 20° | 2010.5 |
| 22.5° | 1982.4 |
| 25° | 1948.4 |
| 27.5° | 1908.5 |
| 30° | 1870.0 |
| 32.5° | 1830.0 |
| 35° | 1785.7 |
| 37.5° | 1739.8 |
| 40° | 1688.0 |
| 42.5° | 1637.7 |
| 45° | 1577.1 |
| 47.5° | 1491.3 |
| 50° | 1071.1 |
| 52.5° | 460.1 |
| 55° | 297.4 |
| 57.5° | 247.1 |
| 60° | 207.1 |
| 62.5° | 180.5 |
| 65° | 168.7 |
| 67.5° | 162.7 |
| 70° | 156.8 |
| 72.5° | 149.4 |
| 75° | 140.5 |
| 77.5° | 127.2 |
| 80° | 108.0 |
| 82.5° | 81.4 |
| 85° | 53.3 |
| 87.5° | 29.6 |
| 90° | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 13.73 | 15.16 | 14.10 | 15.47 | 15.79 | 13.73 | 15.16 | 14.10 | 15.47 | 15.79 |
| | 3H | 15.70 | 16.96 | 16.08 | 17.29 | 17.65 | 15.70 | 16.96 | 16.08 | 17.29 | 17.65 |
| | 4H | 16.86 | 18.04 | 17.26 | 18.39 | 18.77 | 16.86 | 18.04 | 17.26 | 18.39 | 18.77 |
| | 6H | 17.99 | 19.08 | 18.40 | 19.44 | 19.84 | 17.99 | 19.08 | 18.40 | 19.44 | 19.84 |
| | 8H | 18.41 | 19.45 | 18.84 | 19.84 | 20.24 | 18.41 | 19.45 | 18.84 | 19.84 | 20.24 |
| | 12H | 18.72 | 19.71 | 19.15 | 20.09 | 20.52 | 18.72 | 19.71 | 19.15 | 20.09 | 20.52 |
| 4H | 2H | 14.24 | 15.43 | 14.64 | 15.77 | 16.16 | 14.24 | 15.43 | 14.64 | 15.77 | 16.16 |
| | 3H | 16.61 | 17.58 | 17.02 | 17.98 | 18.38 | 16.61 | 17.58 | 17.02 | 17.98 | 18.38 |
| | 4H | 17.99 | 18.86 | 18.42 | 19.27 | 19.72 | 17.99 | 18.86 | 18.42 | 19.27 | 19.72 |
| | 6H | 19.31 | 20.07 | 19.77 | 20.51 | 20.97 | 19.31 | 20.07 | 19.77 | 20.51 | 20.97 |
| | 8H | 19.81 | 20.52 | 20.28 | 20.96 | 21.43 | 19.81 | 20.52 | 20.28 | 20.96 | 21.43 |
| | 12H | 20.18 | 20.81 | 20.66 | 21.29 | 21.76 | 20.18 | 20.81 | 20.66 | 21.29 | 21.76 |
| 8H | 4H | 18.52 | 19.23 | 18.99 | 19.67 | 20.14 | 18.52 | 19.23 | 18.99 | 19.67 | 20.14 |
| | 6H | 20.02 | 20.61 | 20.52 | 21.11 | 21.58 | 20.02 | 20.61 | 20.52 | 21.11 | 21.58 |
| | 8H | 20.63 | 21.16 | 21.15 | 21.67 | 22.16 | 20.63 | 21.16 | 21.15 | 21.67 | 22.16 |
| | 12H | 21.11 | 21.59 | 21.62 | 22.08 | 22.65 | 21.11 | 21.59 | 21.62 | 22.08 | 22.65 |
| 12H | 4H | 18.61 | 19.25 | 19.10 | 19.73 | 20.20 | 18.61 | 19.25 | 19.10 | 19.73 | 20.20 |
| | 6H | 20.16 | 20.70 | 20.68 | 21.21 | 21.70 | 20.16 | 20.70 | 20.68 | 21.21 | 21.70 |
| | 8H | 20.85 | 21.32 | 21.36 | 21.82 | 22.38 | 20.85 | 21.32 | 21.36 | 21.82 | 22.38 |