

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: P979753

Luminaire Tested: PRLX-241-935-LL2-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-LL2-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

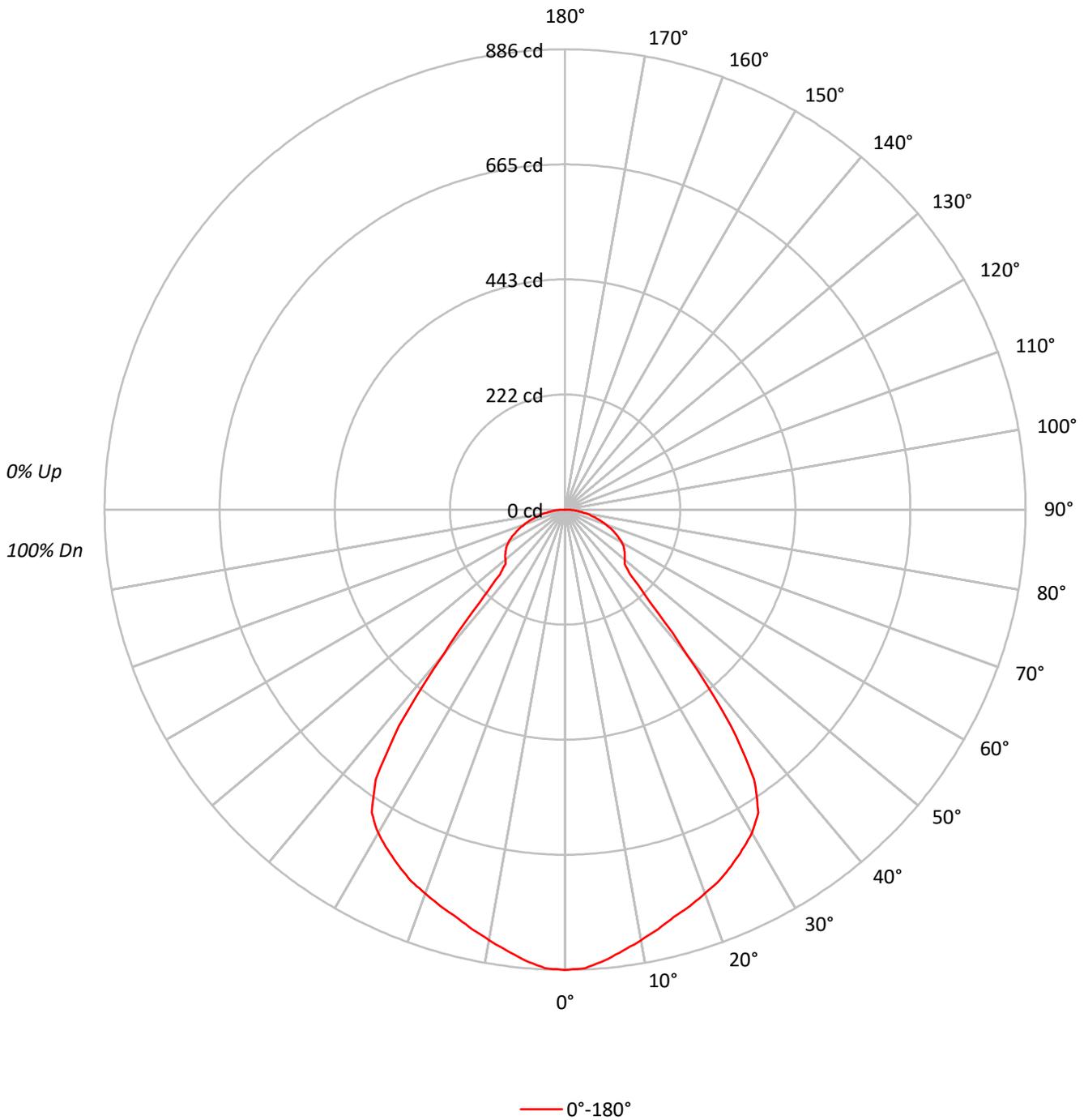
Lumens per Lamp: N/A
Luminaire Lumens: 1503.2 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | 87 | 84 | 81 | 84 | 81 | 79 | 77 |
| 3 | 95 | 86 | 80 | 74 | 93 | 85 | 79 | 73 | 82 | 77 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 |
| 4 | 89 | 78 | 71 | 65 | 87 | 77 | 70 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 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 | 76 | 65 | 58 | 52 | 63 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 49 | 43 | 67 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 38 |
| 10 | 60 | 49 | 42 | 37 | 59 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 36 | 46 | 40 | 36 | 35 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 6833 |
| 5° | 6745 |
| 10° | 6589 |
| 15° | 6479 |
| 20° | 6452 |
| 25° | 6439 |
| 30° | 6402 |
| 35° | 5971 |
| 40° | 3675 |
| 45° | 1933 |
| 50° | 1794 |
| 55° | 1874 |
| 60° | 1941 |
| 65° | 1926 |
| 70° | 1871 |
| 75° | 1781 |
| 80° | 1678 |
| 85° | 1548 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 1942 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.2 | 5.5 |
| 10°-20° | 229.7 | 15.3 |
| 20°-30° | 348.8 | 23.2 |
| 30°-40° | 371.6 | 24.7 |
| 40°-50° | 158.8 | 10.6 |
| 50°-60° | 124.5 | 8.3 |
| 60°-70° | 104.1 | 6.9 |
| 70°-80° | 63.4 | 4.2 |
| 80°-90° | 20.1 | 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° | 660.7 | 44.0 |
| 0°-40° | 1032.3 | 68.7 |
| 0°-60° | 1315.6 | 87.5 |
| 0°-90° | 1503.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1503.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 886 | |
| 5° | 872 | 82 |
| 15° | 812 | 230 |
| 25° | 757 | 349 |
| 35° | 634 | 372 |
| 45° | 177 | 159 |
| 55° | 139 | 125 |
| 65° | 106 | 104 |
| 75° | 60 | 63 |
| 85° | 18 | 20 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 886.3 |
| 2.5° | 883.5 |
| 5° | 871.6 |
| 7.5° | 856.4 |
| 10° | 841.7 |
| 12.5° | 827.0 |
| 15° | 811.8 |
| 17.5° | 799.9 |
| 20° | 786.4 |
| 22.5° | 774.0 |
| 25° | 757.0 |
| 27.5° | 738.4 |
| 30° | 719.2 |
| 32.5° | 692.1 |
| 35° | 634.5 |
| 37.5° | 524.4 |
| 40° | 365.2 |
| 42.5° | 241.0 |
| 45° | 177.3 |
| 47.5° | 155.2 |
| 50° | 149.6 |
| 52.5° | 145.1 |
| 55° | 139.4 |
| 57.5° | 133.8 |
| 60° | 125.9 |
| 62.5° | 116.3 |
| 65° | 105.6 |
| 67.5° | 94.3 |
| 70° | 83.0 |
| 72.5° | 71.1 |
| 75° | 59.8 |
| 77.5° | 49.1 |
| 80° | 37.8 |
| 82.5° | 27.7 |
| 85° | 17.5 |
| 87.5° | 9.6 |
| 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 | 12.68 | 14.02 | 13.05 | 14.33 | 14.65 | 12.68 | 14.02 | 13.05 | 14.33 | 14.65 |
| | 3H | 14.69 | 15.89 | 15.06 | 16.22 | 16.58 | 14.69 | 15.89 | 15.06 | 16.22 | 16.58 |
| | 4H | 15.44 | 16.57 | 15.84 | 16.92 | 17.30 | 15.44 | 16.57 | 15.84 | 16.92 | 17.30 |
| | 6H | 16.03 | 17.07 | 16.44 | 17.44 | 17.83 | 16.03 | 17.07 | 16.44 | 17.44 | 17.83 |
| | 8H | 16.23 | 17.21 | 16.66 | 17.61 | 18.01 | 16.23 | 17.21 | 16.66 | 17.61 | 18.01 |
| | 12H | 16.37 | 17.31 | 16.80 | 17.69 | 18.12 | 16.37 | 17.31 | 16.80 | 17.69 | 18.12 |
| 4H | 2H | 13.35 | 14.48 | 13.75 | 14.83 | 15.21 | 13.35 | 14.48 | 13.75 | 14.83 | 15.21 |
| | 3H | 15.55 | 16.49 | 15.96 | 16.89 | 17.30 | 15.55 | 16.49 | 15.96 | 16.89 | 17.30 |
| | 4H | 16.43 | 17.28 | 16.87 | 17.70 | 18.14 | 16.43 | 17.28 | 16.87 | 17.70 | 18.14 |
| | 6H | 17.15 | 17.88 | 17.61 | 18.33 | 18.79 | 17.15 | 17.88 | 17.61 | 18.33 | 18.79 |
| | 8H | 17.40 | 18.09 | 17.87 | 18.53 | 19.00 | 17.40 | 18.09 | 17.87 | 18.53 | 19.00 |
| | 12H | 17.59 | 18.19 | 18.07 | 18.68 | 19.15 | 17.59 | 18.19 | 18.07 | 18.68 | 19.15 |
| 8H | 4H | 16.75 | 17.44 | 17.22 | 17.88 | 18.35 | 16.75 | 17.44 | 17.22 | 17.88 | 18.35 |
| | 6H | 17.61 | 18.17 | 18.11 | 18.67 | 19.15 | 17.61 | 18.17 | 18.11 | 18.67 | 19.15 |
| | 8H | 17.95 | 18.45 | 18.47 | 18.97 | 19.46 | 17.95 | 18.45 | 18.47 | 18.97 | 19.46 |
| | 12H | 18.23 | 18.67 | 18.74 | 19.16 | 19.73 | 18.23 | 18.67 | 18.74 | 19.16 | 19.73 |
| 12H | 4H | 16.78 | 17.39 | 17.27 | 17.87 | 18.34 | 16.78 | 17.39 | 17.27 | 17.87 | 18.34 |
| | 6H | 17.67 | 18.18 | 18.19 | 18.69 | 19.18 | 17.67 | 18.18 | 18.19 | 18.69 | 19.18 |
| | 8H | 18.08 | 18.52 | 18.59 | 19.01 | 19.58 | 18.08 | 18.52 | 18.59 | 19.01 | 19.58 |