

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: PORTFOLIO

Report Number: P777936

Luminaire Tested: LERS4D10D010-EC4DR150210IC9050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D10D010-EC4DR150210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1068.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
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



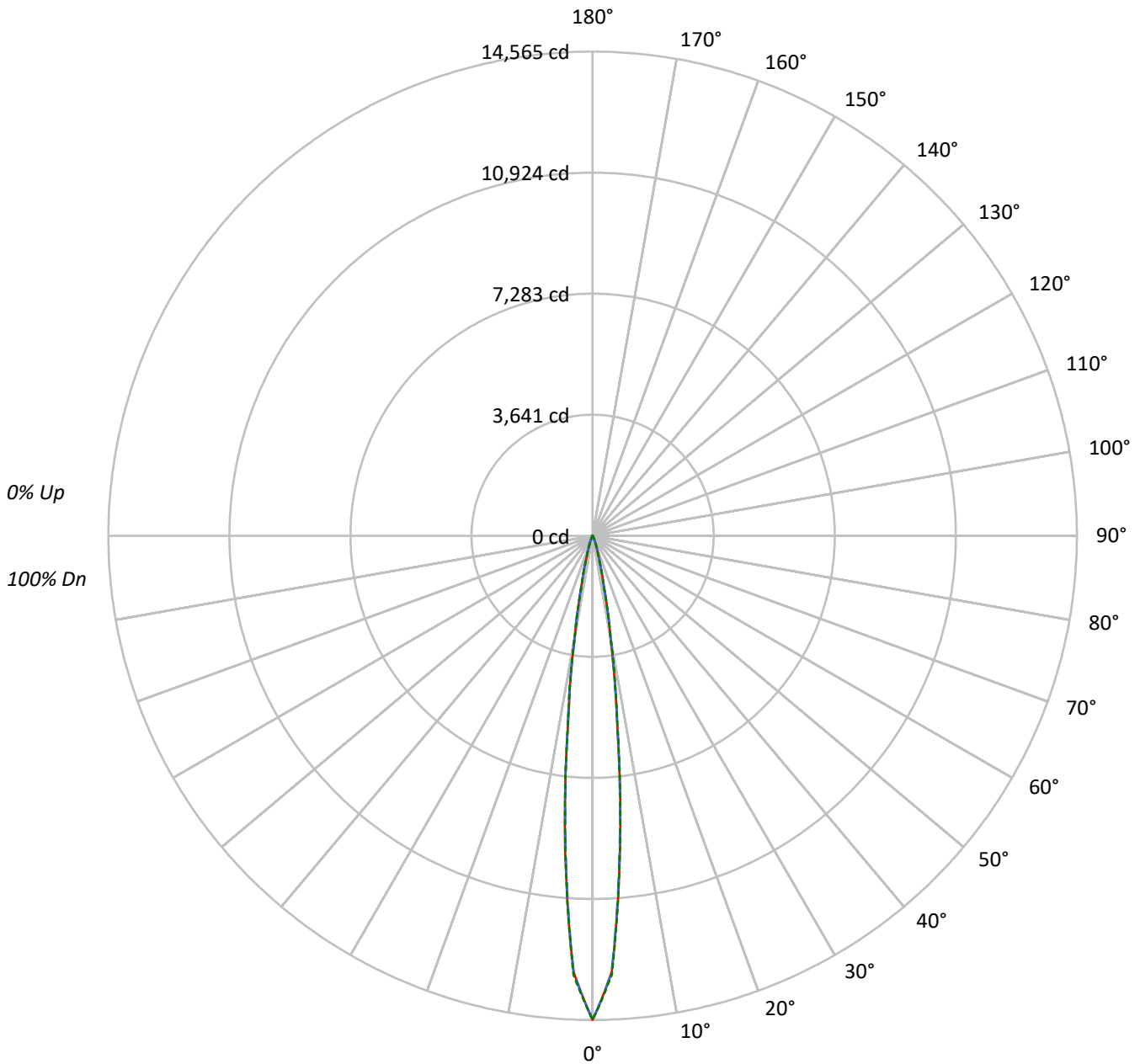
Downlight



TEST NUMBER: P777936

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P777936

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | 98 | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | 94 | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | 93 | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 99 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | 90 | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | 88 | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 88 | 87 | | | | | | 87 | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | 86 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1638853 | 1638853 | 1638853 |
| 5° | 963066 | 950596 | 958117 |
| 10° | 287434 | 289440 | 293872 |
| 15° | 71492 | 72890 | 70641 |
| 20° | 21388 | 24768 | 21847 |
| 25° | 7541 | 9605 | 7634 |
| 30° | 2771 | 3647 | 2816 |
| 35° | 1387 | 1569 | 1343 |
| 40° | 873 | 966 | 873 |
| 45° | 644 | 693 | 644 |
| 50° | 515 | 515 | 515 |
| 55° | 432 | 432 | 432 |
| 60° | 344 | 344 | 344 |
| 65° | 264 | 264 | 264 |
| 70° | 227 | 227 | 227 |
| 75° | 136 | 136 | 189 |
| 80° | 95 | 95 | 95 |
| 85° | 50 | 50 | 50 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 693 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 693.3 | 64.9 |
| 10°-20° | 285.2 | 26.7 |
| 20°-30° | 56.6 | 5.3 |
| 30°-40° | 14.1 | 1.3 |
| 40°-50° | 7.4 | 0.7 |
| 50°-60° | 5.5 | 0.5 |
| 60°-70° | 3.9 | 0.4 |
| 70°-80° | 2.2 | 0.2 |
| 80°-90° | 0.7 | 0.1 |
| 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° | 1035.1 | 96.8 |
| 0°-40° | 1049.3 | 98.2 |
| 0°-60° | 1062.2 | 99.4 |
| 0°-90° | 1068.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1068.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 14565 | 14565 | 14565 | 14565 | 14565 | |
| 5° | 9476 | 9379 | 9354 | 9418 | 9428 | 692 |
| 15° | 823 | 839 | 839 | 824 | 813 | 282 |
| 25° | 97 | 110 | 123 | 109 | 98 | 51 |
| 35° | 19 | 20 | 22 | 20 | 18 | 13 |
| 45° | 9 | 9 | 10 | 9 | 9 | 7 |
| 55° | 6 | 6 | 6 | 6 | 6 | 6 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 2 | 2 | 2 | 2 | 2 | 2 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P777936

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9050-4LBS1B

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 14565.0 | 14565.0 | 14565.0 | 14565.0 | 14565.0 |
| 2.5° | 13138.2 | 13149.3 | 13153.6 | 13166.6 | 13214.7 |
| 5° | 9476.3 | 9378.9 | 9353.6 | 9418.3 | 9427.6 |
| 7.5° | 5613.4 | 5633.1 | 5705.3 | 5721.3 | 5663.3 |
| 10° | 3080.5 | 3105.7 | 3102.0 | 3124.2 | 3149.5 |
| 12.5° | 1575.4 | 1555.6 | 1549.5 | 1574.8 | 1539.6 |
| 15° | 823.1 | 838.6 | 839.2 | 824.4 | 813.3 |
| 17.5° | 442.7 | 460.6 | 490.2 | 466.1 | 429.1 |
| 20° | 261.4 | 277.5 | 302.7 | 283.0 | 267.0 |
| 22.5° | 161.5 | 174.5 | 192.4 | 177.0 | 164.0 |
| 25° | 96.8 | 109.8 | 123.3 | 109.1 | 98.0 |
| 27.5° | 57.3 | 68.4 | 77.1 | 67.8 | 56.7 |
| 30° | 37.0 | 43.2 | 48.7 | 42.5 | 37.6 |
| 32.5° | 25.9 | 28.4 | 30.8 | 28.4 | 25.9 |
| 35° | 19.1 | 20.3 | 21.6 | 20.3 | 18.5 |
| 37.5° | 14.8 | 16.0 | 16.6 | 15.4 | 14.2 |
| 40° | 12.3 | 12.9 | 13.6 | 12.9 | 12.3 |
| 42.5° | 10.5 | 11.1 | 11.1 | 11.1 | 10.5 |
| 45° | 9.2 | 9.2 | 9.9 | 9.2 | 9.2 |
| 47.5° | 8.0 | 8.0 | 8.6 | 8.0 | 8.0 |
| 50° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 52.5° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 55° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 57.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 60° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 62.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 65° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 67.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 70° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 72.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 75° | 1.8 | 1.8 | 1.8 | 1.8 | 2.5 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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