

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: P778240

Luminaire Tested: LERS4D15D010-EC4DR1515309035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778240
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: LERS4D15D010-EC4DR1515309035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.4 lumens
Efficiency: N/A
Efficacy: 89.5 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): 15.8
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

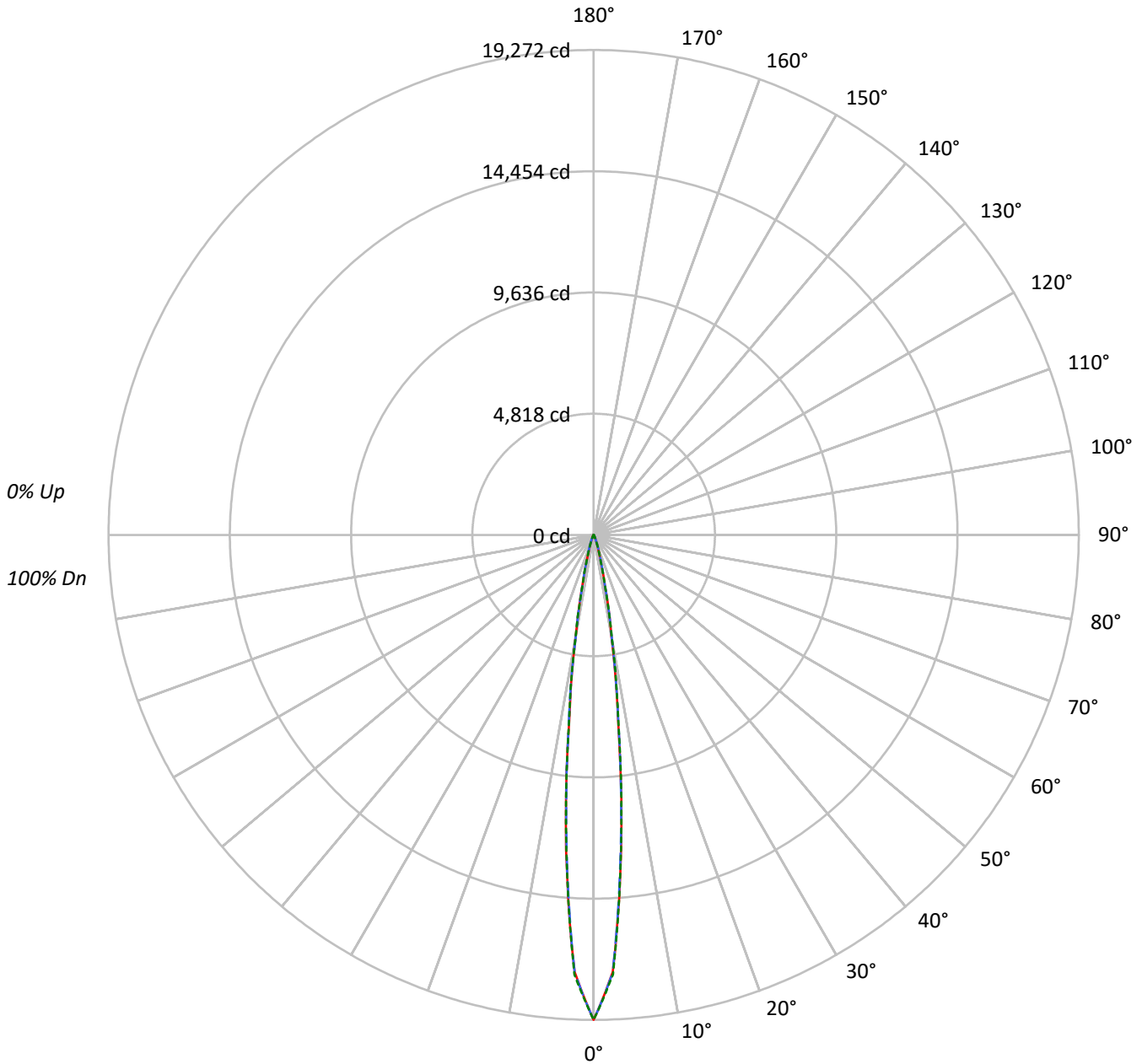


Downlight



TEST NUMBER: P778240
CATALOG NUMBER: LERS4D15D010-EC4DR1515309035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P778240

CATALOG NUMBER: LERS4D15D010-EC4DR1515309035-4LBS1B

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 | 98 | 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° | 2168484 | 2168484 | 2168484 |
| 5° | 1274305 | 1257800 | 1267749 |
| 10° | 380322 | 382981 | 388841 |
| 15° | 94604 | 96446 | 93467 |
| 20° | 28303 | 32778 | 28908 |
| 25° | 9979 | 12713 | 10104 |
| 30° | 3669 | 4830 | 3729 |
| 35° | 1837 | 2077 | 1779 |
| 40° | 1158 | 1271 | 1158 |
| 45° | 854 | 917 | 854 |
| 50° | 681 | 681 | 681 |
| 55° | 571 | 571 | 571 |
| 60° | 456 | 456 | 456 |
| 65° | 350 | 350 | 350 |
| 70° | 300 | 300 | 300 |
| 75° | 181 | 181 | 249 |
| 80° | 126 | 126 | 126 |
| 85° | 66 | 66 | 66 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 917 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 917.4 | 64.9 |
| 10°-20° | 377.3 | 26.7 |
| 20°-30° | 75.0 | 5.3 |
| 30°-40° | 18.7 | 1.3 |
| 40°-50° | 9.8 | 0.7 |
| 50°-60° | 7.3 | 0.5 |
| 60°-70° | 5.1 | 0.4 |
| 70°-80° | 2.9 | 0.2 |
| 80°-90° | 0.9 | 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° | 1369.7 | 96.8 |
| 0°-40° | 1388.4 | 98.2 |
| 0°-60° | 1405.5 | 99.4 |
| 0°-90° | 1414.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1414.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19272 | 19272 | 19272 | 19272 | 19272 | |
| 5° | 12539 | 12410 | 12376 | 12462 | 12474 | 916 |
| 15° | 1089 | 1110 | 1110 | 1091 | 1076 | 373 |
| 25° | 128 | 145 | 163 | 144 | 130 | 67 |
| 35° | 25 | 27 | 29 | 27 | 24 | 17 |
| 45° | 12 | 12 | 13 | 12 | 12 | 10 |
| 55° | 8 | 8 | 8 | 8 | 8 | 7 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 2 | 2 | 2 | 2 | 3 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P778240

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 19272.0 | 19272.0 | 19272.0 | 19272.0 | 19272.0 |
| 2.5° | 17384.1 | 17398.8 | 17404.5 | 17421.6 | 17485.2 |
| 5° | 12538.8 | 12409.9 | 12376.4 | 12462.1 | 12474.3 |
| 7.5° | 7427.5 | 7453.6 | 7549.0 | 7570.2 | 7493.6 |
| 10° | 4076.0 | 4109.4 | 4104.5 | 4133.9 | 4167.3 |
| 12.5° | 2084.5 | 2058.4 | 2050.2 | 2083.7 | 2037.2 |
| 15° | 1089.2 | 1109.6 | 1110.4 | 1090.8 | 1076.1 |
| 17.5° | 585.8 | 609.4 | 648.6 | 616.8 | 567.8 |
| 20° | 345.9 | 367.1 | 400.6 | 374.5 | 353.3 |
| 22.5° | 213.8 | 230.9 | 254.5 | 234.1 | 217.0 |
| 25° | 128.1 | 145.2 | 163.2 | 144.4 | 129.7 |
| 27.5° | 75.9 | 90.6 | 102.0 | 89.7 | 75.1 |
| 30° | 49.0 | 57.1 | 64.5 | 56.3 | 49.8 |
| 32.5° | 34.3 | 37.5 | 40.8 | 37.5 | 34.3 |
| 35° | 25.3 | 26.9 | 28.6 | 26.9 | 24.5 |
| 37.5° | 19.6 | 21.2 | 22.0 | 20.4 | 18.8 |
| 40° | 16.3 | 17.1 | 17.9 | 17.1 | 16.3 |
| 42.5° | 13.9 | 14.7 | 14.7 | 14.7 | 13.9 |
| 45° | 12.2 | 12.2 | 13.1 | 12.2 | 12.2 |
| 47.5° | 10.6 | 10.6 | 11.4 | 10.6 | 10.6 |
| 50° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 52.5° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 55° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 57.5° | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 60° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| 62.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 65° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 67.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 70° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 72.5° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 75° | 2.4 | 2.4 | 2.4 | 2.4 | 3.3 |
| 77.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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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