

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: P742891

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742891
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: LD4D15D010-EU4DR1515309027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1227.4 lumens
Efficiency: N/A
Efficacy: 77.7 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

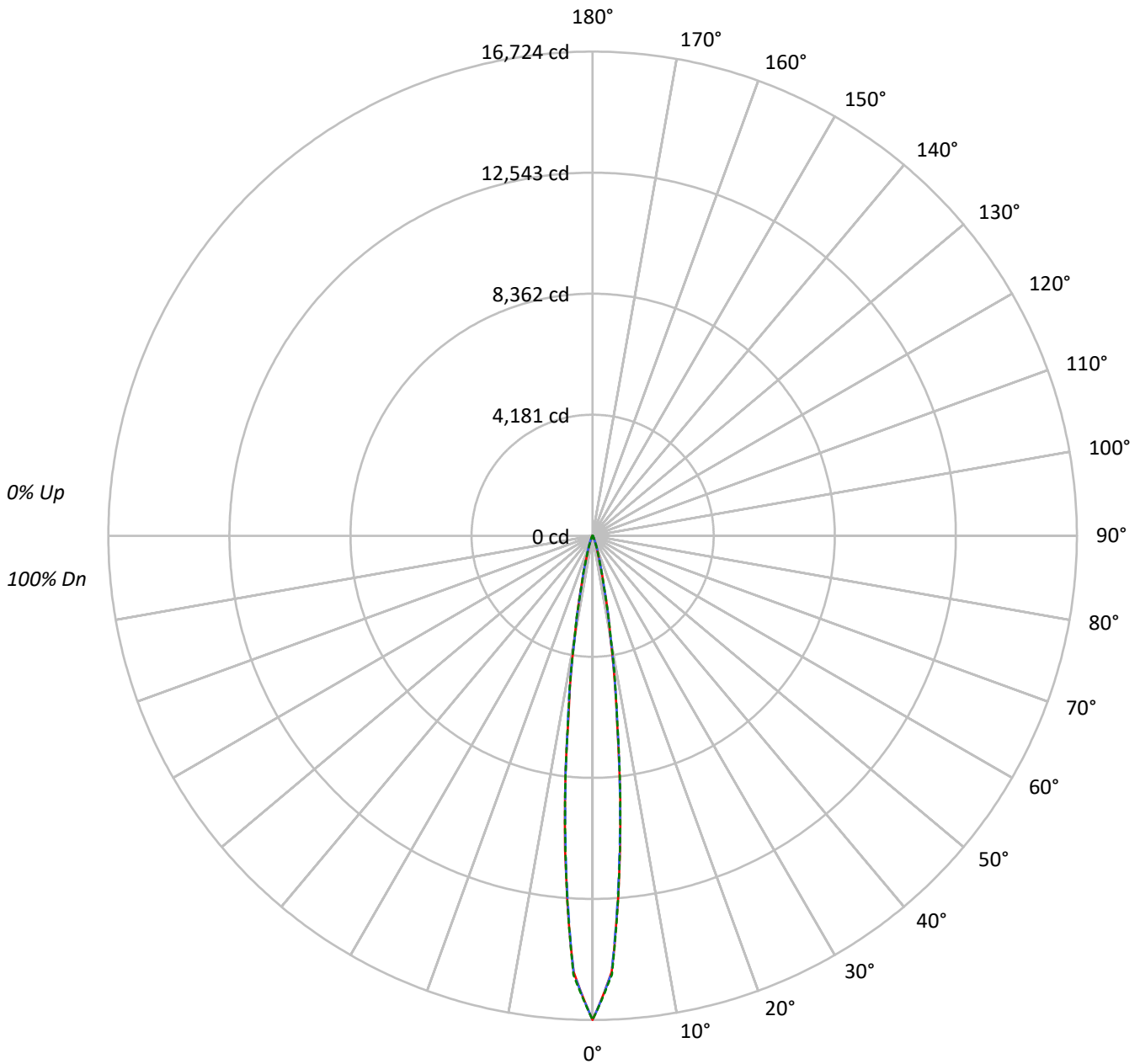


Downlight



TEST NUMBER: P742891
CATALOG NUMBER: LD4D15D010-EU4DR1515309027-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P742891

CATALOG NUMBER: LD4D15D010-EU4DR1515309027-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1881761 | 1881761 | 1881761 |
| 5° | 1105804 | 1091494 | 1100123 |
| 10° | 330029 | 332343 | 337428 |
| 15° | 82088 | 83695 | 81107 |
| 20° | 24563 | 28442 | 25087 |
| 25° | 8663 | 11031 | 8772 |
| 30° | 3182 | 4186 | 3235 |
| 35° | 1590 | 1801 | 1540 |
| 40° | 1008 | 1108 | 1008 |
| 45° | 742 | 791 | 742 |
| 50° | 591 | 591 | 591 |
| 55° | 494 | 494 | 494 |
| 60° | 400 | 400 | 400 |
| 65° | 300 | 300 | 300 |
| 70° | 256 | 256 | 256 |
| 75° | 159 | 159 | 212 |
| 80° | 110 | 110 | 110 |
| 85° | 58 | 58 | 58 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 791 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 796.1 | 64.9 |
| 10°-20° | 327.5 | 26.7 |
| 20°-30° | 65.0 | 5.3 |
| 30°-40° | 16.2 | 1.3 |
| 40°-50° | 8.5 | 0.7 |
| 50°-60° | 6.3 | 0.5 |
| 60°-70° | 4.5 | 0.4 |
| 70°-80° | 2.5 | 0.2 |
| 80°-90° | 0.8 | 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° | 1188.6 | 96.8 |
| 0°-40° | 1204.8 | 98.2 |
| 0°-60° | 1219.7 | 99.4 |
| 0°-90° | 1227.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1227.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16724 | 16724 | 16724 | 16724 | 16724 | |
| 5° | 10881 | 10769 | 10740 | 10814 | 10825 | 795 |
| 15° | 945 | 963 | 964 | 947 | 934 | 324 |
| 25° | 111 | 126 | 142 | 125 | 113 | 58 |
| 35° | 22 | 23 | 25 | 23 | 21 | 15 |
| 45° | 11 | 11 | 11 | 11 | 11 | 8 |
| 55° | 7 | 7 | 7 | 7 | 7 | 6 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 2 | 2 | 2 | 2 | 3 | 2 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 16723.8 | 16723.8 | 16723.8 | 16723.8 | 16723.8 |
| 2.5° | 15085.5 | 15098.2 | 15103.2 | 15118.1 | 15173.3 |
| 5° | 10880.8 | 10769.0 | 10740.0 | 10814.3 | 10824.9 |
| 7.5° | 6445.4 | 6468.0 | 6550.9 | 6569.3 | 6502.7 |
| 10° | 3537.0 | 3566.1 | 3561.8 | 3587.3 | 3616.3 |
| 12.5° | 1808.9 | 1786.2 | 1779.1 | 1808.2 | 1767.8 |
| 15° | 945.1 | 962.8 | 963.6 | 946.6 | 933.8 |
| 17.5° | 508.3 | 528.9 | 562.8 | 535.2 | 492.7 |
| 20° | 300.2 | 318.6 | 347.6 | 325.0 | 306.6 |
| 22.5° | 185.5 | 200.4 | 220.9 | 203.2 | 188.3 |
| 25° | 111.2 | 126.0 | 141.6 | 125.3 | 112.6 |
| 27.5° | 65.8 | 78.6 | 88.5 | 77.9 | 65.1 |
| 30° | 42.5 | 49.6 | 55.9 | 48.9 | 43.2 |
| 32.5° | 29.7 | 32.6 | 35.4 | 32.6 | 29.7 |
| 35° | 21.9 | 23.4 | 24.8 | 23.4 | 21.2 |
| 37.5° | 17.0 | 18.4 | 19.1 | 17.7 | 16.3 |
| 40° | 14.2 | 14.9 | 15.6 | 14.9 | 14.2 |
| 42.5° | 12.0 | 12.7 | 12.7 | 12.7 | 12.0 |
| 45° | 10.6 | 10.6 | 11.3 | 10.6 | 10.6 |
| 47.5° | 9.2 | 9.2 | 9.9 | 9.2 | 9.2 |
| 50° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 52.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 55° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 57.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 60° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 62.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 65° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 67.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 70° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 72.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 75° | 2.1 | 2.1 | 2.1 | 2.1 | 2.8 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

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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