

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: P742882

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742882
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-EU4DR1515309024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1168.9 lumens
Efficiency: N/A
Efficacy: 74.0 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

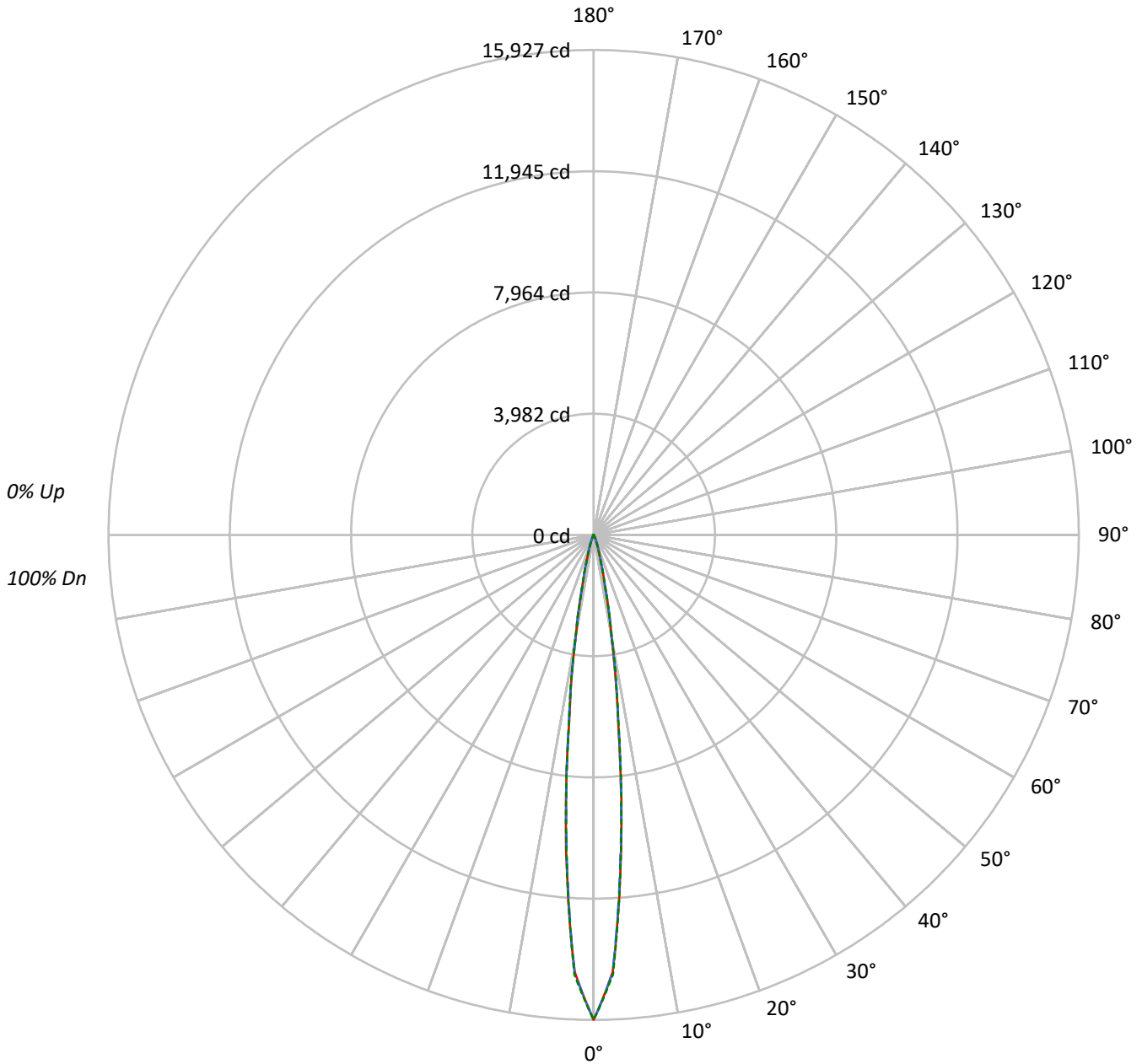


Downlight



TEST NUMBER: P742882
CATALOG NUMBER: LD4D15D010-EU4DR1515309024-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P742882

CATALOG NUMBER: LD4D15D010-EU4DR1515309024-4LBS1B

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 | 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 | 99 | 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° | 1792071 | 1792071 | 1792071 |
| 5° | 1053109 | 1039471 | 1047692 |
| 10° | 314307 | 316509 | 321351 |
| 15° | 78180 | 79700 | 77242 |
| 20° | 23393 | 27083 | 23884 |
| 25° | 8250 | 10501 | 8351 |
| 30° | 3033 | 3991 | 3078 |
| 35° | 1518 | 1714 | 1467 |
| 40° | 959 | 1051 | 959 |
| 45° | 707 | 756 | 707 |
| 50° | 563 | 563 | 563 |
| 55° | 466 | 466 | 466 |
| 60° | 379 | 379 | 379 |
| 65° | 285 | 285 | 285 |
| 70° | 249 | 249 | 249 |
| 75° | 151 | 151 | 204 |
| 80° | 102 | 102 | 102 |
| 85° | 58 | 58 | 58 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 756 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 758.1 | 64.9 |
| 10°-20° | 311.8 | 26.7 |
| 20°-30° | 61.9 | 5.3 |
| 30°-40° | 15.5 | 1.3 |
| 40°-50° | 8.1 | 0.7 |
| 50°-60° | 6.0 | 0.5 |
| 60°-70° | 4.2 | 0.4 |
| 70°-80° | 2.4 | 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° | 1131.9 | 96.8 |
| 0°-40° | 1147.4 | 98.2 |
| 0°-60° | 1161.5 | 99.4 |
| 0°-90° | 1168.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1168.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15927 | 15927 | 15927 | 15927 | 15927 | |
| 5° | 10362 | 10256 | 10228 | 10299 | 10309 | 757 |
| 15° | 900 | 917 | 918 | 902 | 889 | 309 |
| 25° | 106 | 120 | 135 | 119 | 107 | 56 |
| 35° | 21 | 22 | 24 | 22 | 20 | 14 |
| 45° | 10 | 10 | 11 | 10 | 10 | 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° | 15926.7 | 15926.7 | 15926.7 | 15926.7 | 15926.7 |
| 2.5° | 14366.6 | 14378.7 | 14383.4 | 14397.6 | 14450.2 |
| 5° | 10362.3 | 10255.8 | 10228.1 | 10298.9 | 10309.0 |
| 7.5° | 6138.2 | 6159.8 | 6238.7 | 6256.2 | 6192.8 |
| 10° | 3368.5 | 3396.1 | 3392.1 | 3416.3 | 3444.0 |
| 12.5° | 1722.7 | 1701.1 | 1694.3 | 1722.0 | 1683.6 |
| 15° | 900.1 | 917.0 | 917.6 | 901.5 | 889.3 |
| 17.5° | 484.1 | 503.7 | 536.0 | 509.7 | 469.3 |
| 20° | 285.9 | 303.4 | 331.0 | 309.5 | 291.9 |
| 22.5° | 176.6 | 190.8 | 210.4 | 193.5 | 179.3 |
| 25° | 105.9 | 120.0 | 134.8 | 119.3 | 107.2 |
| 27.5° | 62.7 | 74.8 | 84.3 | 74.2 | 62.0 |
| 30° | 40.5 | 47.2 | 53.3 | 46.5 | 41.1 |
| 32.5° | 28.3 | 31.0 | 33.7 | 31.0 | 28.3 |
| 35° | 20.9 | 22.2 | 23.6 | 22.2 | 20.2 |
| 37.5° | 16.2 | 17.5 | 18.2 | 16.9 | 15.5 |
| 40° | 13.5 | 14.2 | 14.8 | 14.2 | 13.5 |
| 42.5° | 11.5 | 12.1 | 12.1 | 12.1 | 11.5 |
| 45° | 10.1 | 10.1 | 10.8 | 10.1 | 10.1 |
| 47.5° | 8.8 | 8.8 | 9.4 | 8.8 | 8.8 |
| 50° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 52.5° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 55° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 57.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 60° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 62.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 65° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 67.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 70° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 75° | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 80° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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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