

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: P743109

Luminaire Tested: LD4D15D010-EU4DR300215IC9024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR300215IC9024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1020.6 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (A_{in}): 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



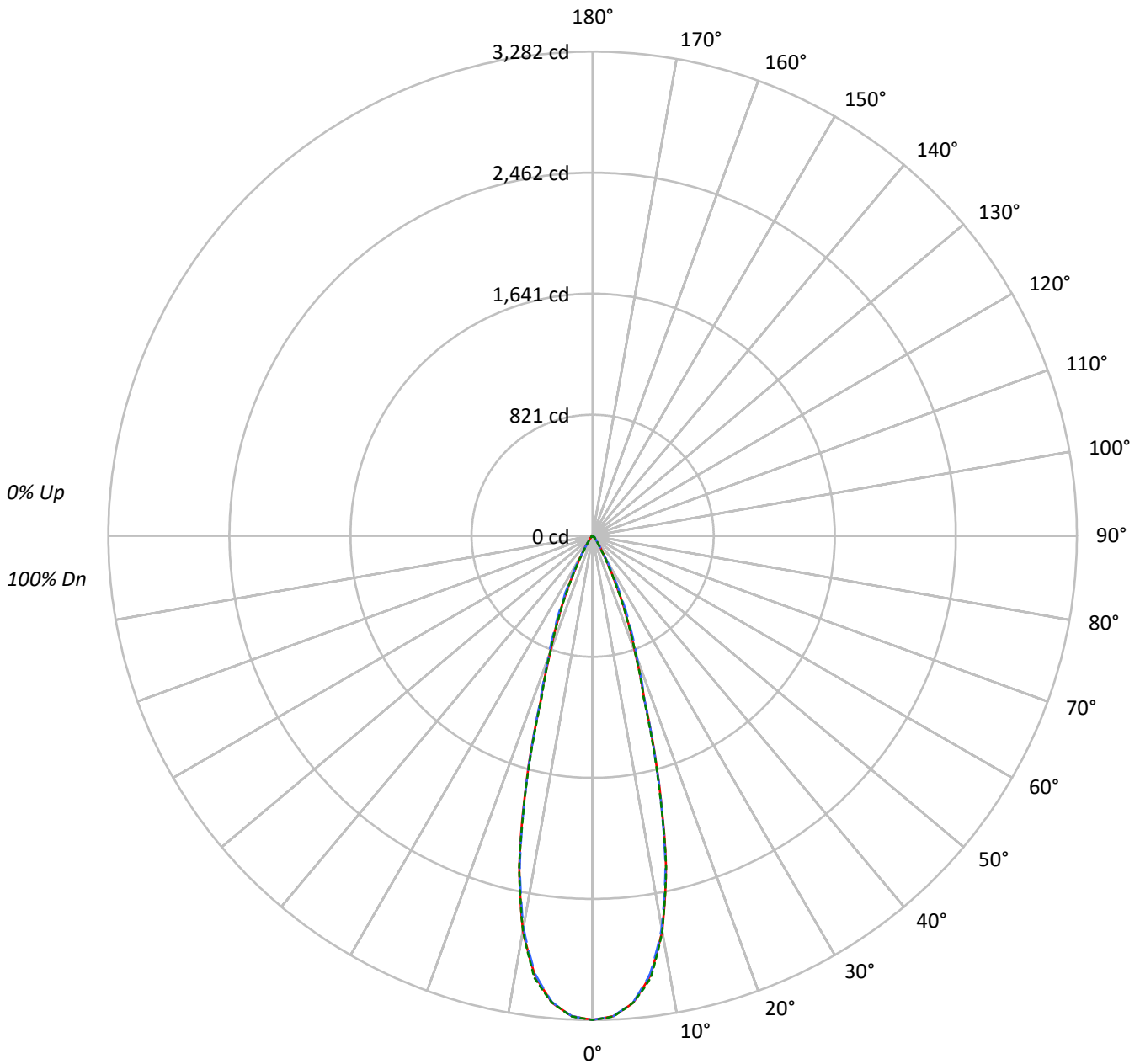
Downlight



TEST NUMBER: P743109

CATALOG NUMBER: LD4D15D010-EU4DR300215IC9024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P743109

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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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 251185 | 251185 | 251185 |
| 5° | 243977 | 243692 | 243992 |
| 10° | 211317 | 209832 | 211270 |
| 15° | 137876 | 137131 | 136442 |
| 20° | 68561 | 71127 | 68464 |
| 25° | 34534 | 38943 | 33825 |
| 30° | 13823 | 15070 | 12047 |
| 35° | 6410 | 6139 | 5149 |
| 40° | 2768 | 3078 | 2608 |
| 45° | 1948 | 2425 | 1970 |
| 50° | 667 | 1762 | 714 |
| 55° | 387 | 734 | 400 |
| 60° | 276 | 321 | 276 |
| 65° | 181 | 181 | 181 |
| 70° | 112 | 67 | 112 |
| 75° | 0 | 59 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2425 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 288.6 | 28.3 |
| 10°-20° | 464.7 | 45.5 |
| 20°-30° | 200.8 | 19.7 |
| 30°-40° | 45.8 | 4.5 |
| 40°-50° | 15.7 | 1.5 |
| 50°-60° | 3.8 | 0.4 |
| 60°-70° | 1.0 | 0.1 |
| 70°-80° | 0.1 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 954.1 | 93.5 |
| 0°-40° | 999.9 | 98.0 |
| 0°-60° | 1019.5 | 99.9 |
| 0°-90° | 1020.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1020.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3282 | 3282 | 3282 | 3282 | 3282 | |
| 5° | 3175 | 3172 | 3172 | 3178 | 3176 | 289 |
| 15° | 1740 | 1719 | 1730 | 1725 | 1722 | 466 |
| 25° | 409 | 424 | 461 | 414 | 400 | 196 |
| 35° | 69 | 70 | 66 | 65 | 55 | 47 |
| 45° | 18 | 22 | 22 | 22 | 18 | 13 |
| 55° | 3 | 3 | 6 | 3 | 3 | 3 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3281.6 | 3281.6 | 3281.6 | 3281.6 | 3281.6 |
| 2.5° | 3259.9 | 3257.6 | 3258.9 | 3260.5 | 3261.2 |
| 5° | 3175.3 | 3172.2 | 3171.6 | 3178.2 | 3175.5 |
| 7.5° | 3004.7 | 3000.3 | 2993.7 | 3008.7 | 3022.7 |
| 10° | 2718.8 | 2714.0 | 2699.7 | 2706.7 | 2718.2 |
| 12.5° | 2296.9 | 2281.3 | 2280.9 | 2303.5 | 2300.4 |
| 15° | 1739.9 | 1719.0 | 1730.5 | 1724.9 | 1721.8 |
| 17.5° | 1170.0 | 1161.9 | 1177.4 | 1172.8 | 1152.6 |
| 20° | 841.7 | 843.8 | 873.2 | 858.5 | 840.5 |
| 22.5° | 614.2 | 621.8 | 656.7 | 618.5 | 604.5 |
| 25° | 408.9 | 424.4 | 461.1 | 413.6 | 400.5 |
| 27.5° | 251.5 | 258.6 | 295.8 | 248.3 | 241.2 |
| 30° | 156.4 | 152.9 | 170.5 | 146.3 | 136.3 |
| 32.5° | 102.6 | 98.1 | 103.8 | 93.1 | 85.1 |
| 35° | 68.6 | 70.1 | 65.7 | 65.3 | 55.1 |
| 37.5° | 42.9 | 49.3 | 43.5 | 46.4 | 35.5 |
| 40° | 27.7 | 35.8 | 30.8 | 34.0 | 26.1 |
| 42.5° | 22.7 | 27.6 | 25.3 | 26.9 | 23.2 |
| 45° | 18.0 | 22.4 | 22.4 | 22.4 | 18.2 |
| 47.5° | 10.0 | 15.0 | 19.2 | 15.3 | 10.7 |
| 50° | 5.6 | 7.6 | 14.8 | 7.9 | 6.0 |
| 52.5° | 3.8 | 4.4 | 10.1 | 4.5 | 4.0 |
| 55° | 2.9 | 3.0 | 5.5 | 3.2 | 3.0 |
| 57.5° | 2.2 | 2.4 | 2.9 | 2.4 | 2.2 |
| 60° | 1.8 | 1.8 | 2.1 | 1.9 | 1.8 |
| 62.5° | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 |
| 65° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 67.5° | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.5 | 0.3 | 0.3 | 0.3 | 0.5 |
| 72.5° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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