

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: P740920

Luminaire Tested: LD4D08D010-EU4DR150210IC9050-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740920
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: LD4D08D010-EU4DR150210IC9050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 784.0 lumens
Efficiency: N/A
Efficacy: 88.1 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): 8.9
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



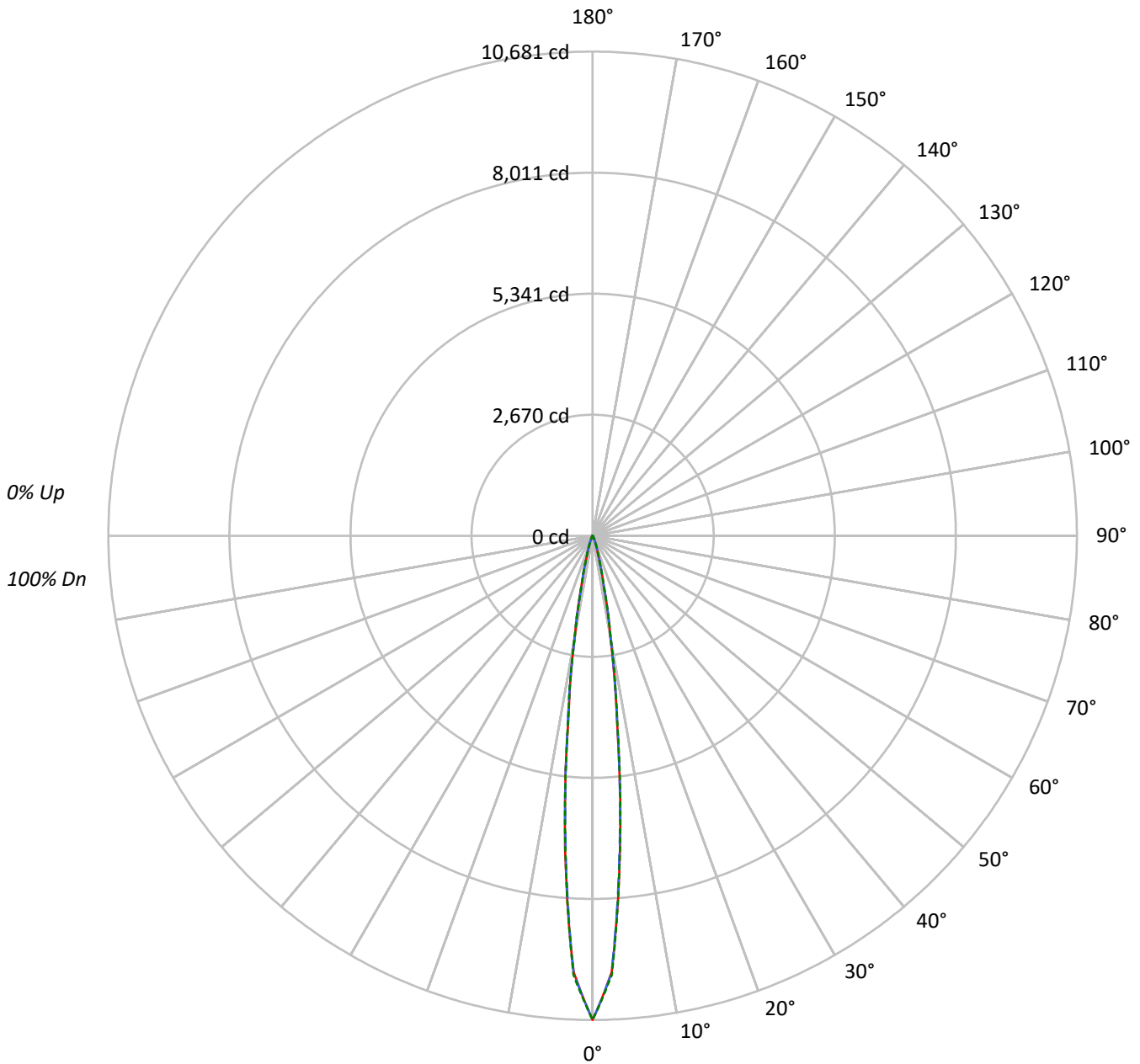
Downlight



TEST NUMBER: P740920

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P740920

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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 | 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 | 87 | 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° | 1201826 | 1201826 | 1201826 |
| 5° | 706250 | 697103 | 702622 |
| 10° | 210782 | 212256 | 215513 |
| 15° | 52427 | 53452 | 51801 |
| 20° | 15685 | 18165 | 16021 |
| 25° | 5531 | 7042 | 5601 |
| 30° | 2029 | 2673 | 2067 |
| 35° | 1017 | 1147 | 988 |
| 40° | 639 | 703 | 639 |
| 45° | 476 | 504 | 476 |
| 50° | 375 | 375 | 375 |
| 55° | 313 | 313 | 313 |
| 60° | 253 | 253 | 253 |
| 65° | 193 | 193 | 193 |
| 70° | 168 | 168 | 168 |
| 75° | 106 | 106 | 136 |
| 80° | 71 | 71 | 71 |
| 85° | 42 | 42 | 42 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 504 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 508.4 | 64.9 |
| 10°-20° | 209.1 | 26.7 |
| 20°-30° | 41.5 | 5.3 |
| 30°-40° | 10.4 | 1.3 |
| 40°-50° | 5.4 | 0.7 |
| 50°-60° | 4.0 | 0.5 |
| 60°-70° | 2.9 | 0.4 |
| 70°-80° | 1.6 | 0.2 |
| 80°-90° | 0.5 | 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° | 759.1 | 96.8 |
| 0°-40° | 769.5 | 98.2 |
| 0°-60° | 779.0 | 99.4 |
| 0°-90° | 784.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 784.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10681 | 10681 | 10681 | 10681 | 10681 | |
| 5° | 6949 | 6878 | 6859 | 6907 | 6914 | 507 |
| 15° | 604 | 615 | 615 | 604 | 596 | 207 |
| 25° | 71 | 80 | 90 | 80 | 72 | 37 |
| 35° | 14 | 15 | 16 | 15 | 14 | 10 |
| 45° | 7 | 7 | 7 | 7 | 7 | 5 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 1 | 1 | 1 | 1 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 10681.0 | 10681.0 | 10681.0 | 10681.0 | 10681.0 |
| 2.5° | 9634.7 | 9642.9 | 9646.0 | 9655.5 | 9690.8 |
| 5° | 6949.3 | 6877.9 | 6859.3 | 6906.8 | 6913.6 |
| 7.5° | 4116.5 | 4131.0 | 4183.9 | 4195.6 | 4153.1 |
| 10° | 2259.0 | 2277.6 | 2274.8 | 2291.1 | 2309.7 |
| 12.5° | 1155.3 | 1140.8 | 1136.3 | 1154.8 | 1129.1 |
| 15° | 603.6 | 614.9 | 615.4 | 604.5 | 596.4 |
| 17.5° | 324.7 | 337.8 | 359.5 | 341.8 | 314.7 |
| 20° | 191.7 | 203.5 | 222.0 | 207.5 | 195.8 |
| 22.5° | 118.5 | 128.0 | 141.1 | 129.8 | 120.3 |
| 25° | 71.0 | 80.5 | 90.4 | 80.0 | 71.9 |
| 27.5° | 42.1 | 50.2 | 56.5 | 49.7 | 41.6 |
| 30° | 27.1 | 31.7 | 35.7 | 31.2 | 27.6 |
| 32.5° | 19.0 | 20.8 | 22.6 | 20.8 | 19.0 |
| 35° | 14.0 | 14.9 | 15.8 | 14.9 | 13.6 |
| 37.5° | 10.9 | 11.8 | 12.2 | 11.3 | 10.4 |
| 40° | 9.0 | 9.5 | 9.9 | 9.5 | 9.0 |
| 42.5° | 7.7 | 8.1 | 8.1 | 8.1 | 7.7 |
| 45° | 6.8 | 6.8 | 7.2 | 6.8 | 6.8 |
| 47.5° | 5.9 | 5.9 | 6.3 | 5.9 | 5.9 |
| 50° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 52.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 55° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 57.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 60° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 62.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 65° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 67.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 70° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 72.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 75° | 1.4 | 1.4 | 1.4 | 1.4 | 1.8 |
| 77.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 80° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 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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