

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: P739106

Luminaire Tested: LD4D02D010-EU4DR300210IC9035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739106
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: LD4D02D010-EU4DR300210IC9035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 302.1 lumens
Efficiency: N/A
Efficacy: 59.2 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): 5.1
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

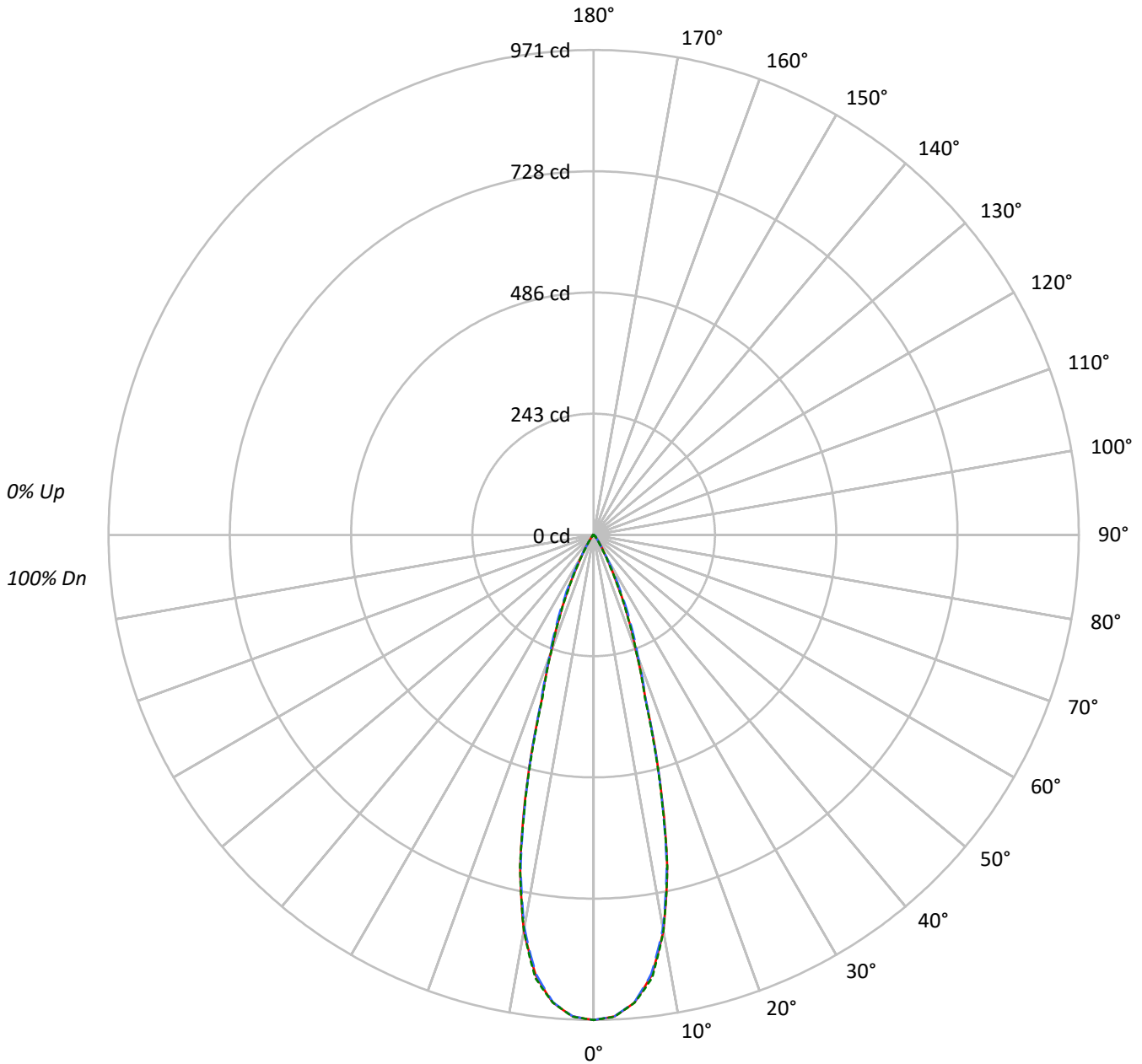


Downlight



TEST NUMBER: P739106
CATALOG NUMBER: LD4D02D010-EU4DR300210IC9035-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739106

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 100 | 100 | 100 | 100 | | |
| | 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | 96 | 96 | 96 | 96 | 96 | | |
| | 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | 92 | 92 | 92 | 92 | 92 | | |
| | 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | 89 | 89 | 89 | 89 | 89 | | |
| | 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | 85 | 85 | 85 | 85 | 85 | | |
| | 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | 82 | 82 | 82 | 82 | 82 | | |
| | 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | 79 | 79 | 79 | 79 | 79 | | |
| | 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | 77 | 77 | 77 | 77 | 77 | | |
| | 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| | 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | 72 | 72 | 72 | 72 | 72 | | |
| | 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | 69 | 69 | 69 | 69 | 69 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 74347 | 74347 | 74347 |
| 5° | 72210 | 72126 | 72218 |
| 10° | 62545 | 62102 | 62529 |
| 15° | 40810 | 40589 | 40383 |
| 20° | 20291 | 21056 | 20266 |
| 25° | 10219 | 11528 | 10008 |
| 30° | 4092 | 4463 | 3562 |
| 35° | 1897 | 1822 | 1523 |
| 40° | 819 | 909 | 769 |
| 45° | 574 | 714 | 585 |
| 50° | 202 | 524 | 214 |
| 55° | 120 | 214 | 120 |
| 60° | 77 | 92 | 77 |
| 65° | 54 | 54 | 54 |
| 70° | 22 | 22 | 22 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 714 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.4 | 28.3 |
| 10°-20° | 137.6 | 45.5 |
| 20°-30° | 59.4 | 19.7 |
| 30°-40° | 13.6 | 4.5 |
| 40°-50° | 4.6 | 1.5 |
| 50°-60° | 1.1 | 0.4 |
| 60°-70° | 0.3 | 0.1 |
| 70°-80° | 0.0 | 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° | 282.4 | 93.5 |
| 0°-40° | 296.0 | 98.0 |
| 0°-60° | 301.7 | 99.9 |
| 0°-90° | 302.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 302.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 971 | 971 | 971 | 971 | 971 | |
| 5° | 940 | 939 | 939 | 941 | 940 | 85 |
| 15° | 515 | 509 | 512 | 511 | 510 | 138 |
| 25° | 121 | 126 | 136 | 122 | 118 | 58 |
| 35° | 20 | 21 | 20 | 19 | 16 | 14 |
| 45° | 5 | 7 | 7 | 7 | 5 | 4 |
| 55° | 1 | 1 | 2 | 1 | 1 | 1 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 971.3 | 971.3 | 971.3 | 971.3 | 971.3 |
| 2.5° | 964.8 | 964.2 | 964.6 | 965.0 | 965.2 |
| 5° | 939.8 | 938.9 | 938.7 | 940.7 | 939.9 |
| 7.5° | 889.3 | 888.0 | 886.1 | 890.5 | 894.7 |
| 10° | 804.7 | 803.3 | 799.0 | 801.2 | 804.5 |
| 12.5° | 679.8 | 675.2 | 675.1 | 681.8 | 680.9 |
| 15° | 515.0 | 508.8 | 512.2 | 510.6 | 509.6 |
| 17.5° | 346.3 | 343.9 | 348.5 | 347.1 | 341.1 |
| 20° | 249.1 | 249.7 | 258.5 | 254.0 | 248.8 |
| 22.5° | 181.8 | 184.0 | 194.3 | 183.1 | 178.9 |
| 25° | 121.0 | 125.6 | 136.5 | 122.4 | 118.5 |
| 27.5° | 74.4 | 76.5 | 87.5 | 73.5 | 71.4 |
| 30° | 46.3 | 45.3 | 50.5 | 43.3 | 40.3 |
| 32.5° | 30.4 | 29.0 | 30.7 | 27.6 | 25.2 |
| 35° | 20.3 | 20.7 | 19.5 | 19.3 | 16.3 |
| 37.5° | 12.7 | 14.6 | 12.9 | 13.8 | 10.5 |
| 40° | 8.2 | 10.6 | 9.1 | 10.1 | 7.7 |
| 42.5° | 6.7 | 8.1 | 7.5 | 8.0 | 6.9 |
| 45° | 5.3 | 6.6 | 6.6 | 6.6 | 5.4 |
| 47.5° | 3.0 | 4.4 | 5.7 | 4.5 | 3.2 |
| 50° | 1.7 | 2.2 | 4.4 | 2.3 | 1.8 |
| 52.5° | 1.1 | 1.3 | 3.0 | 1.3 | 1.2 |
| 55° | 0.9 | 0.9 | 1.6 | 1.0 | 0.9 |
| 57.5° | 0.7 | 0.7 | 0.9 | 0.7 | 0.7 |
| 60° | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 |
| 62.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 65° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 67.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| 70° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 72.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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