

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



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: P742123

Luminaire Tested: LD4D10D010-EU4DR300210IC9030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742123
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: LD4D10D010-EU4DR300210IC9030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 891.2 lumens
Efficiency: N/A
Efficacy: 76.2 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): 11.7
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



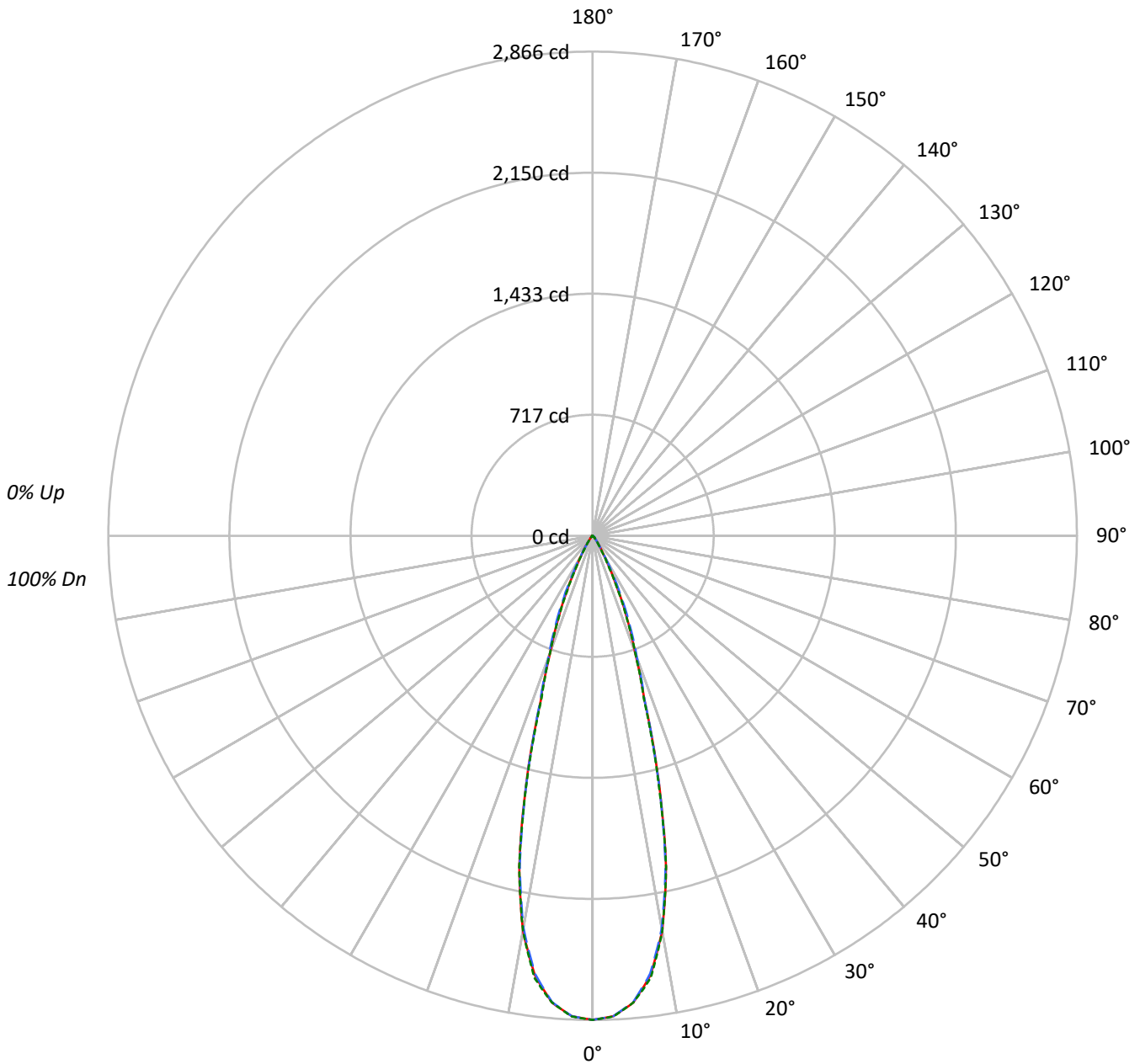
Downlight



TEST NUMBER: P742123

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9030-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P742123

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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° | 219343 | 219343 | 219343 |
| 5° | 213043 | 212797 | 213058 |
| 10° | 184525 | 183227 | 184486 |
| 15° | 120395 | 119753 | 119143 |
| 20° | 59870 | 62110 | 59789 |
| 25° | 30159 | 34011 | 29534 |
| 30° | 12073 | 13160 | 10518 |
| 35° | 5597 | 5364 | 4495 |
| 40° | 2418 | 2688 | 2278 |
| 45° | 1710 | 2111 | 1721 |
| 50° | 583 | 1536 | 619 |
| 55° | 334 | 641 | 360 |
| 60° | 230 | 276 | 230 |
| 65° | 163 | 163 | 163 |
| 70° | 90 | 67 | 90 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2111 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.0 | 28.3 |
| 10°-20° | 405.8 | 45.5 |
| 20°-30° | 175.4 | 19.7 |
| 30°-40° | 40.0 | 4.5 |
| 40°-50° | 13.7 | 1.5 |
| 50°-60° | 3.3 | 0.4 |
| 60°-70° | 0.9 | 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° | 833.2 | 93.5 |
| 0°-40° | 873.1 | 98.0 |
| 0°-60° | 890.2 | 99.9 |
| 0°-90° | 891.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 891.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2866 | 2866 | 2866 | 2866 | 2866 | |
| 5° | 2773 | 2770 | 2770 | 2775 | 2773 | 252 |
| 15° | 1519 | 1501 | 1511 | 1506 | 1504 | 407 |
| 25° | 357 | 371 | 403 | 361 | 350 | 171 |
| 35° | 60 | 61 | 57 | 57 | 48 | 41 |
| 45° | 16 | 20 | 20 | 20 | 16 | 11 |
| 55° | 2 | 3 | 5 | 3 | 3 | 2 |
| 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° | 2865.6 | 2865.6 | 2865.6 | 2865.6 | 2865.6 |
| 2.5° | 2846.6 | 2844.6 | 2845.7 | 2847.2 | 2847.7 |
| 5° | 2772.7 | 2770.0 | 2769.5 | 2775.3 | 2772.9 |
| 7.5° | 2623.8 | 2619.9 | 2614.2 | 2627.3 | 2639.5 |
| 10° | 2374.1 | 2370.0 | 2357.4 | 2363.6 | 2373.6 |
| 12.5° | 2005.7 | 1992.0 | 1991.7 | 2011.5 | 2008.8 |
| 15° | 1519.3 | 1501.0 | 1511.2 | 1506.2 | 1503.5 |
| 17.5° | 1021.7 | 1014.6 | 1028.2 | 1024.1 | 1006.5 |
| 20° | 735.0 | 736.8 | 762.5 | 749.6 | 734.0 |
| 22.5° | 536.3 | 542.9 | 573.5 | 540.1 | 527.9 |
| 25° | 357.1 | 370.6 | 402.7 | 361.1 | 349.7 |
| 27.5° | 219.6 | 225.8 | 258.3 | 216.8 | 210.6 |
| 30° | 136.6 | 133.5 | 148.9 | 127.8 | 119.0 |
| 32.5° | 89.6 | 85.7 | 90.6 | 81.3 | 74.3 |
| 35° | 59.9 | 61.2 | 57.4 | 57.0 | 48.1 |
| 37.5° | 37.4 | 43.0 | 38.0 | 40.5 | 30.9 |
| 40° | 24.2 | 31.2 | 26.9 | 29.7 | 22.8 |
| 42.5° | 19.8 | 24.1 | 22.1 | 23.5 | 20.3 |
| 45° | 15.8 | 19.5 | 19.5 | 19.5 | 15.9 |
| 47.5° | 8.7 | 13.1 | 16.7 | 13.3 | 9.3 |
| 50° | 4.9 | 6.6 | 12.9 | 6.9 | 5.2 |
| 52.5° | 3.4 | 3.8 | 8.9 | 4.0 | 3.5 |
| 55° | 2.5 | 2.7 | 4.8 | 2.8 | 2.7 |
| 57.5° | 1.9 | 2.1 | 2.5 | 2.1 | 1.9 |
| 60° | 1.5 | 1.5 | 1.8 | 1.7 | 1.5 |
| 62.5° | 1.1 | 1.1 | 1.3 | 1.1 | 1.1 |
| 65° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 67.5° | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 |
| 72.5° | 0.3 | 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 |

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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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