

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: P745055

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745055
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: LD4D25D010-EU4DR3020359030-4LBCSSQMB
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: 2124.9 lumens
Efficiency: N/A
Efficacy: 84.7 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): 25.1
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

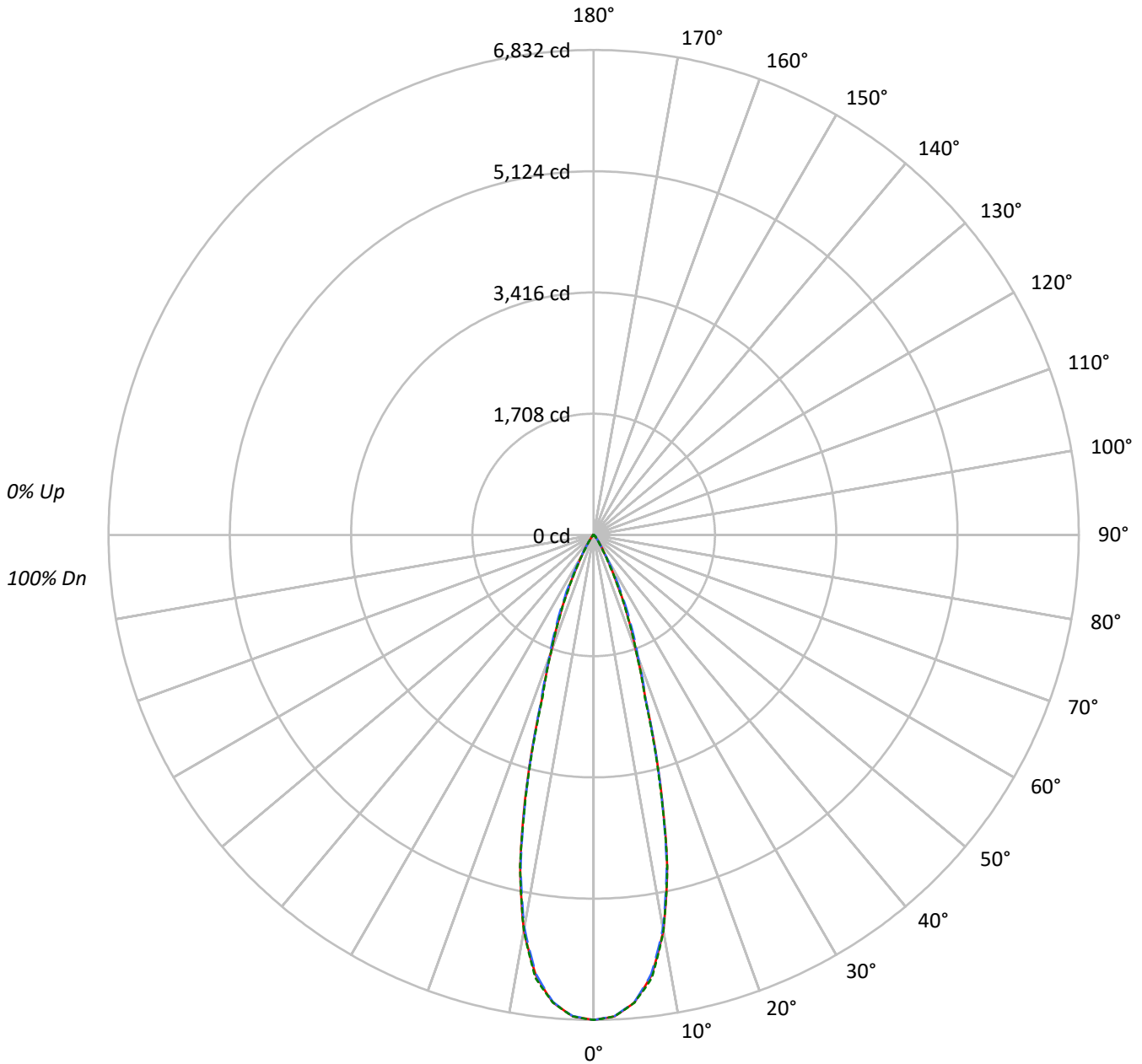


Downlight



TEST NUMBER: P745055
CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P745055

CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBCSSQMB

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° | 522983 | 522983 | 522983 |
| 5° | 507969 | 507377 | 508000 |
| 10° | 439981 | 436880 | 439872 |
| 15° | 287060 | 285522 | 284088 |
| 20° | 142743 | 148095 | 142556 |
| 25° | 71906 | 81086 | 70428 |
| 30° | 28787 | 31368 | 25084 |
| 35° | 13353 | 12792 | 10718 |
| 40° | 5765 | 6405 | 5426 |
| 45° | 4070 | 5044 | 4103 |
| 50° | 1393 | 3680 | 1477 |
| 55° | 801 | 1521 | 854 |
| 60° | 566 | 674 | 566 |
| 65° | 362 | 362 | 362 |
| 70° | 224 | 157 | 224 |
| 75° | 0 | 89 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5044 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 600.8 | 28.3 |
| 10°-20° | 967.6 | 45.5 |
| 20°-30° | 418.1 | 19.7 |
| 30°-40° | 95.3 | 4.5 |
| 40°-50° | 32.7 | 1.5 |
| 50°-60° | 8.0 | 0.4 |
| 60°-70° | 2.1 | 0.1 |
| 70°-80° | 0.2 | 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° | 1986.6 | 93.5 |
| 0°-40° | 2081.9 | 98.0 |
| 0°-60° | 2122.6 | 99.9 |
| 0°-90° | 2124.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2124.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6832 | 6832 | 6832 | 6832 | 6832 | |
| 5° | 6611 | 6605 | 6603 | 6617 | 6612 | 601 |
| 15° | 3622 | 3579 | 3603 | 3591 | 3585 | 970 |
| 25° | 851 | 884 | 960 | 861 | 834 | 408 |
| 35° | 143 | 146 | 137 | 136 | 115 | 97 |
| 45° | 38 | 47 | 47 | 47 | 38 | 27 |
| 55° | 6 | 6 | 11 | 7 | 6 | 6 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 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° | 6832.5 | 6832.5 | 6832.5 | 6832.5 | 6832.5 |
| 2.5° | 6787.2 | 6782.5 | 6785.2 | 6788.6 | 6789.9 |
| 5° | 6611.1 | 6604.7 | 6603.4 | 6617.1 | 6611.5 |
| 7.5° | 6255.9 | 6246.8 | 6233.1 | 6264.2 | 6293.4 |
| 10° | 5660.8 | 5650.7 | 5620.9 | 5635.6 | 5659.4 |
| 12.5° | 4782.2 | 4749.7 | 4749.0 | 4795.9 | 4789.6 |
| 15° | 3622.5 | 3578.9 | 3603.1 | 3591.4 | 3585.0 |
| 17.5° | 2436.1 | 2419.3 | 2451.5 | 2441.7 | 2399.8 |
| 20° | 1752.4 | 1756.8 | 1818.1 | 1787.3 | 1750.1 |
| 22.5° | 1278.8 | 1294.5 | 1367.3 | 1287.8 | 1258.6 |
| 25° | 851.4 | 883.6 | 960.1 | 861.1 | 833.9 |
| 27.5° | 523.6 | 538.4 | 615.9 | 516.9 | 502.2 |
| 30° | 325.7 | 318.3 | 354.9 | 304.6 | 283.8 |
| 32.5° | 213.7 | 204.3 | 216.1 | 193.9 | 177.1 |
| 35° | 142.9 | 145.9 | 136.9 | 135.8 | 114.7 |
| 37.5° | 89.2 | 102.7 | 90.6 | 96.6 | 73.8 |
| 40° | 57.7 | 74.5 | 64.1 | 70.8 | 54.3 |
| 42.5° | 47.3 | 57.4 | 52.7 | 56.0 | 48.3 |
| 45° | 37.6 | 46.6 | 46.6 | 46.6 | 37.9 |
| 47.5° | 20.8 | 31.2 | 39.9 | 31.9 | 22.1 |
| 50° | 11.7 | 15.8 | 30.9 | 16.4 | 12.4 |
| 52.5° | 8.1 | 9.1 | 21.1 | 9.4 | 8.4 |
| 55° | 6.0 | 6.4 | 11.4 | 6.7 | 6.4 |
| 57.5° | 4.7 | 5.0 | 6.0 | 5.0 | 4.7 |
| 60° | 3.7 | 3.7 | 4.4 | 4.0 | 3.7 |
| 62.5° | 2.7 | 2.7 | 3.0 | 2.7 | 2.7 |
| 65° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 67.5° | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 70° | 1.0 | 0.7 | 0.7 | 0.7 | 1.0 |
| 72.5° | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75° | 0.0 | 0.0 | 0.3 | 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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