

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: P745053

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745053
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-EU4DR3020359027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.3 lumens
Efficiency: N/A
Efficacy: 68.2 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): 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



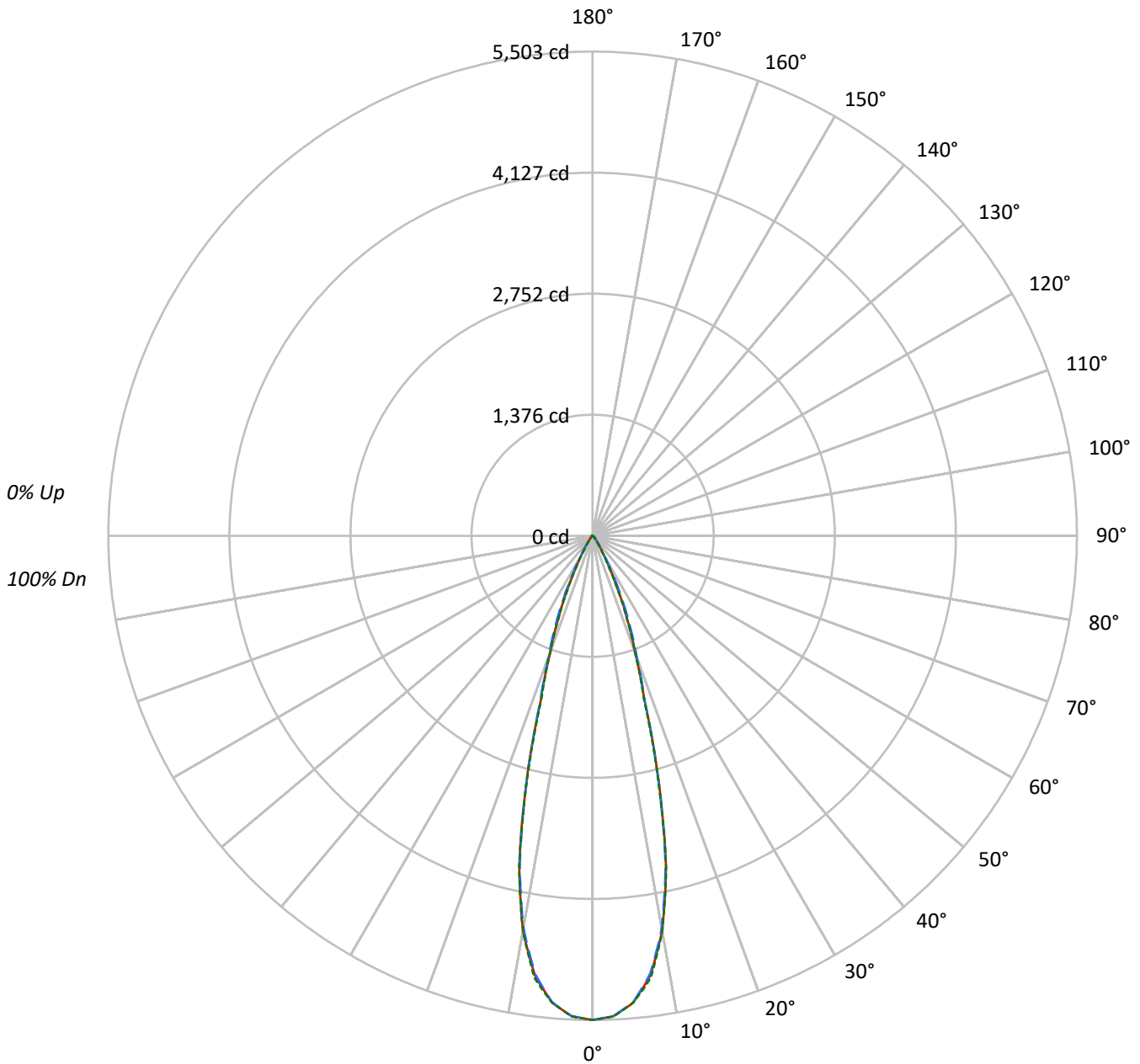
Downlight



TEST NUMBER: P745053

CATALOG NUMBER: LD4D25D010-EU4DR3020359027-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P745053

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 421188 | 421188 | 421188 |
| 5° | 409097 | 408620 | 409112 |
| 10° | 354337 | 351842 | 354251 |
| 15° | 231193 | 229949 | 228792 |
| 20° | 114959 | 119268 | 114804 |
| 25° | 57912 | 65302 | 56721 |
| 30° | 23183 | 25260 | 20205 |
| 35° | 10755 | 10297 | 8634 |
| 40° | 4646 | 5156 | 4377 |
| 45° | 3280 | 4059 | 3302 |
| 50° | 1131 | 2965 | 1191 |
| 55° | 654 | 1228 | 694 |
| 60° | 459 | 536 | 459 |
| 65° | 290 | 290 | 290 |
| 70° | 179 | 112 | 179 |
| 75° | 0 | 89 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4059 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 483.9 | 28.3 |
| 10°-20° | 779.3 | 45.5 |
| 20°-30° | 336.7 | 19.7 |
| 30°-40° | 76.8 | 4.5 |
| 40°-50° | 26.3 | 1.5 |
| 50°-60° | 6.5 | 0.4 |
| 60°-70° | 1.7 | 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° | 1599.9 | 93.5 |
| 0°-40° | 1676.6 | 98.0 |
| 0°-60° | 1709.4 | 99.9 |
| 0°-90° | 1711.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1711.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5503 | 5503 | 5503 | 5503 | 5503 | |
| 5° | 5324 | 5319 | 5318 | 5329 | 5324 | 484 |
| 15° | 2918 | 2882 | 2902 | 2892 | 2887 | 781 |
| 25° | 686 | 712 | 773 | 694 | 672 | 328 |
| 35° | 115 | 118 | 110 | 109 | 92 | 78 |
| 45° | 30 | 38 | 38 | 38 | 30 | 21 |
| 55° | 5 | 5 | 9 | 5 | 5 | 5 |
| 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° | 5502.6 | 5502.6 | 5502.6 | 5502.6 | 5502.6 |
| 2.5° | 5466.1 | 5462.3 | 5464.5 | 5467.2 | 5468.3 |
| 5° | 5324.3 | 5319.2 | 5318.1 | 5329.1 | 5324.5 |
| 7.5° | 5038.2 | 5030.9 | 5019.8 | 5044.9 | 5068.4 |
| 10° | 4558.9 | 4550.8 | 4526.8 | 4538.7 | 4557.8 |
| 12.5° | 3851.4 | 3825.2 | 3824.6 | 3862.4 | 3857.3 |
| 15° | 2917.5 | 2882.3 | 2901.8 | 2892.3 | 2887.2 |
| 17.5° | 1961.9 | 1948.4 | 1974.3 | 1966.5 | 1932.7 |
| 20° | 1411.3 | 1414.8 | 1464.2 | 1439.4 | 1409.4 |
| 22.5° | 1029.8 | 1042.5 | 1101.2 | 1037.2 | 1013.6 |
| 25° | 685.7 | 711.6 | 773.2 | 693.5 | 671.6 |
| 27.5° | 421.7 | 433.6 | 496.0 | 416.3 | 404.4 |
| 30° | 262.3 | 256.4 | 285.8 | 245.3 | 228.6 |
| 32.5° | 172.1 | 164.6 | 174.0 | 156.1 | 142.7 |
| 35° | 115.1 | 117.5 | 110.2 | 109.4 | 92.4 |
| 37.5° | 71.8 | 82.7 | 72.9 | 77.8 | 59.4 |
| 40° | 46.5 | 60.0 | 51.6 | 57.0 | 43.8 |
| 42.5° | 38.1 | 46.2 | 42.4 | 45.1 | 38.9 |
| 45° | 30.3 | 37.5 | 37.5 | 37.5 | 30.5 |
| 47.5° | 16.7 | 25.2 | 32.1 | 25.7 | 17.8 |
| 50° | 9.5 | 12.7 | 24.9 | 13.2 | 10.0 |
| 52.5° | 6.5 | 7.3 | 17.0 | 7.6 | 6.8 |
| 55° | 4.9 | 5.2 | 9.2 | 5.4 | 5.2 |
| 57.5° | 3.8 | 4.1 | 4.9 | 4.1 | 3.8 |
| 60° | 3.0 | 3.0 | 3.5 | 3.3 | 3.0 |
| 62.5° | 2.2 | 2.2 | 2.4 | 2.2 | 2.2 |
| 65° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 67.5° | 0.8 | 1.1 | 1.1 | 1.1 | 1.1 |
| 70° | 0.8 | 0.5 | 0.5 | 0.5 | 0.8 |
| 72.5° | 0.5 | 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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