

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: P754563

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754563
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: LD4D85BD010-EU4DR3070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8063.7 lumens
Efficiency: N/A
Efficacy: 91.9 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): 87.7
Input Voltage (V): NR
Input Current (A_{in}): 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

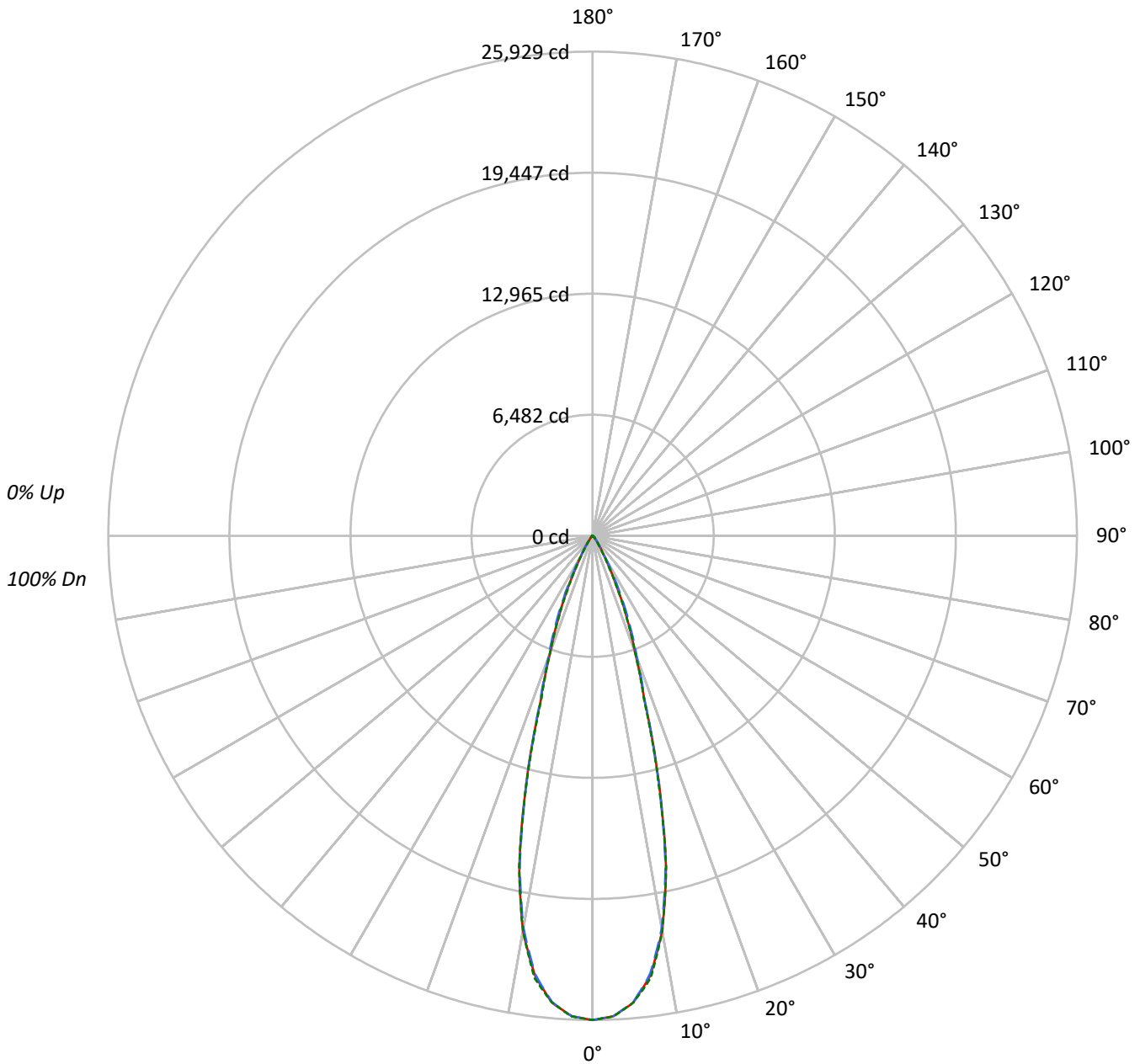


Downlight

TEST NUMBER: P754563

CATALOG NUMBER: LD4D85BD010-EU4DR3070959027-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P754563

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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° | 1984671 | 1984671 | 1984671 |
| 5° | 1927694 | 1925443 | 1927794 |
| 10° | 1669671 | 1657904 | 1669283 |
| 15° | 1089377 | 1083529 | 1078085 |
| 20° | 541697 | 562020 | 540972 |
| 25° | 272870 | 307708 | 267279 |
| 30° | 109252 | 119037 | 95190 |
| 35° | 50674 | 48534 | 40685 |
| 40° | 21883 | 24291 | 20604 |
| 45° | 15436 | 19149 | 15577 |
| 50° | 5311 | 13944 | 5609 |
| 55° | 3056 | 5778 | 3229 |
| 60° | 2143 | 2526 | 2143 |
| 65° | 1376 | 1376 | 1376 |
| 70° | 850 | 559 | 850 |
| 75° | 0 | 384 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19149 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2280.0 | 28.3 |
| 10°-20° | 3672.0 | 45.5 |
| 20°-30° | 1586.8 | 19.7 |
| 30°-40° | 361.7 | 4.5 |
| 40°-50° | 124.2 | 1.5 |
| 50°-60° | 30.3 | 0.4 |
| 60°-70° | 7.9 | 0.1 |
| 70°-80° | 0.8 | 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° | 7538.8 | 93.5 |
| 0°-40° | 7900.5 | 98.0 |
| 0°-60° | 8055.0 | 99.9 |
| 0°-90° | 8063.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8063.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 25929 | 25929 | 25929 | 25929 | 25929 | |
| 5° | 25088 | 25064 | 25059 | 25111 | 25090 | 2282 |
| 15° | 13747 | 13582 | 13673 | 13629 | 13605 | 3681 |
| 25° | 3231 | 3353 | 3643 | 3268 | 3165 | 1547 |
| 35° | 542 | 554 | 519 | 516 | 435 | 368 |
| 45° | 143 | 177 | 177 | 177 | 144 | 101 |
| 55° | 23 | 24 | 43 | 26 | 24 | 22 |
| 65° | 8 | 8 | 8 | 8 | 8 | 7 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 25928.7 | 25928.7 | 25928.7 | 25928.7 | 25928.7 |
| 2.5° | 25756.8 | 25739.0 | 25749.2 | 25761.9 | 25767.0 |
| 5° | 25088.5 | 25064.3 | 25059.2 | 25111.4 | 25089.8 |
| 7.5° | 23740.4 | 23706.0 | 23653.8 | 23772.2 | 23882.9 |
| 10° | 21482.0 | 21443.9 | 21330.6 | 21386.6 | 21477.0 |
| 12.5° | 18148.0 | 18024.6 | 18022.0 | 18200.2 | 18176.0 |
| 15° | 13747.2 | 13581.7 | 13673.4 | 13628.8 | 13604.7 |
| 17.5° | 9244.6 | 9180.9 | 9303.2 | 9266.2 | 9107.1 |
| 20° | 6650.2 | 6666.8 | 6899.7 | 6782.6 | 6641.3 |
| 22.5° | 4852.7 | 4912.5 | 5188.8 | 4887.1 | 4776.3 |
| 25° | 3230.9 | 3353.1 | 3643.4 | 3267.8 | 3164.7 |
| 27.5° | 1987.2 | 2043.2 | 2337.2 | 1961.7 | 1905.7 |
| 30° | 1236.1 | 1208.1 | 1346.8 | 1155.9 | 1077.0 |
| 32.5° | 810.9 | 775.3 | 819.8 | 735.8 | 672.1 |
| 35° | 542.3 | 553.8 | 519.4 | 515.6 | 435.4 |
| 37.5° | 338.6 | 389.5 | 343.7 | 366.6 | 280.1 |
| 40° | 219.0 | 282.6 | 243.1 | 268.6 | 206.2 |
| 42.5° | 179.5 | 217.7 | 199.9 | 212.6 | 183.3 |
| 45° | 142.6 | 176.9 | 176.9 | 176.9 | 143.9 |
| 47.5° | 78.9 | 118.4 | 151.5 | 120.9 | 84.0 |
| 50° | 44.6 | 59.8 | 117.1 | 62.4 | 47.1 |
| 52.5° | 30.6 | 34.4 | 80.2 | 35.6 | 31.8 |
| 55° | 22.9 | 24.2 | 43.3 | 25.5 | 24.2 |
| 57.5° | 17.8 | 19.1 | 22.9 | 19.1 | 17.8 |
| 60° | 14.0 | 14.0 | 16.5 | 15.3 | 14.0 |
| 62.5° | 10.2 | 10.2 | 11.5 | 10.2 | 10.2 |
| 65° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 67.5° | 3.8 | 5.1 | 5.1 | 5.1 | 5.1 |
| 70° | 3.8 | 2.5 | 2.5 | 2.5 | 3.8 |
| 72.5° | 2.5 | 1.3 | 1.3 | 1.3 | 1.3 |
| 75° | 0.0 | 0.0 | 1.3 | 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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