

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: P745097

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745097
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-EU4DR3020359050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.4 lumens
Efficiency: N/A
Efficacy: 80.0 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 (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

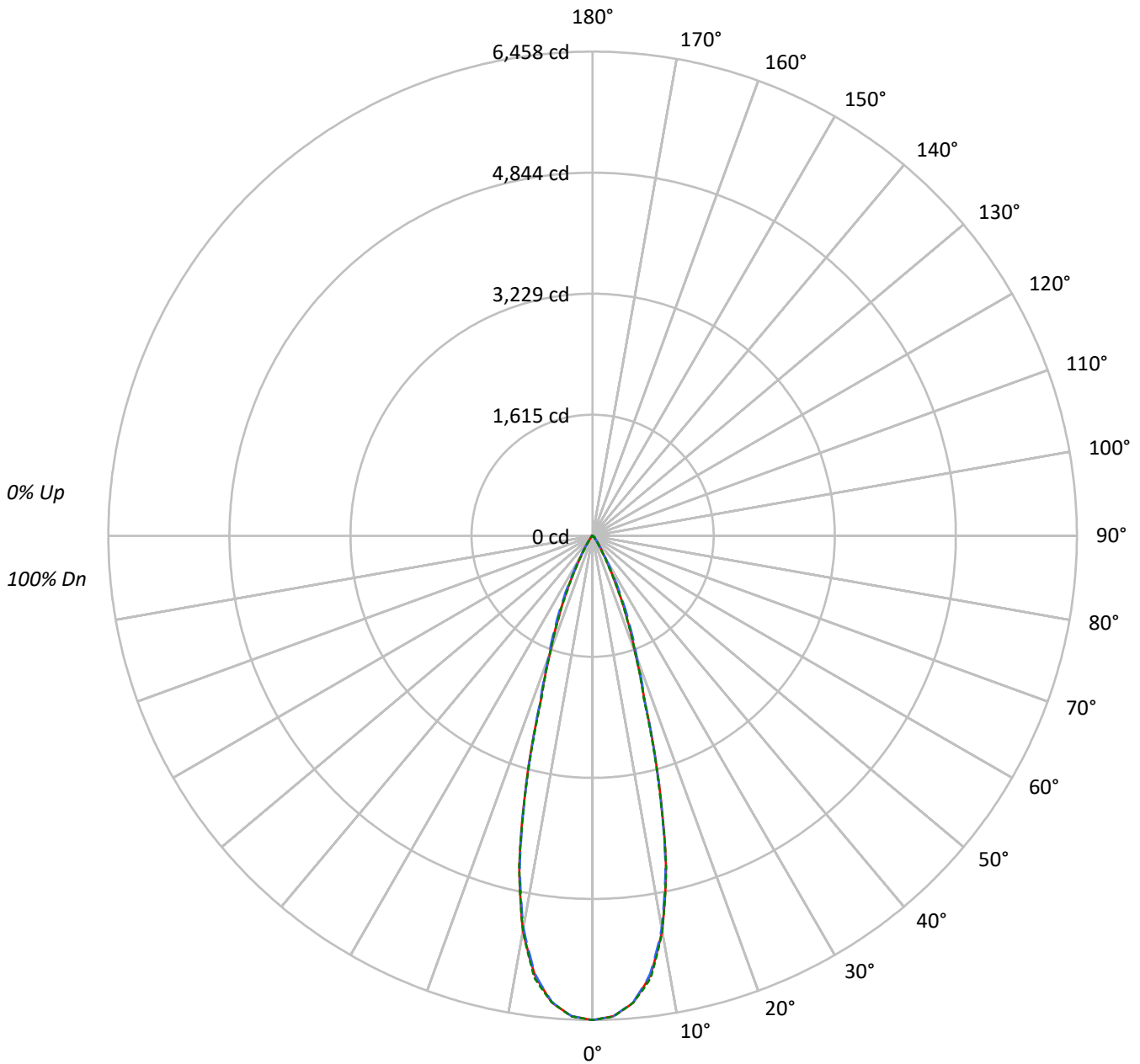


Downlight



TEST NUMBER: P745097
CATALOG NUMBER: LD4D25D010-EU4DR3020359050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P745097

CATALOG NUMBER: LD4D25D010-EU4DR3020359050-4LBDP1B

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° | 494310 | 494310 | 494310 |
| 5° | 480124 | 479555 | 480139 |
| 10° | 415856 | 412925 | 415755 |
| 15° | 271330 | 269872 | 268509 |
| 20° | 134915 | 139982 | 134736 |
| 25° | 67962 | 76636 | 66568 |
| 30° | 27205 | 29653 | 23714 |
| 35° | 12615 | 12091 | 10138 |
| 40° | 5446 | 6055 | 5126 |
| 45° | 3843 | 4774 | 3875 |
| 50° | 1322 | 3477 | 1393 |
| 55° | 761 | 1441 | 801 |
| 60° | 536 | 628 | 536 |
| 65° | 344 | 344 | 344 |
| 70° | 224 | 134 | 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: 4774 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 567.9 | 28.3 |
| 10°-20° | 914.6 | 45.5 |
| 20°-30° | 395.2 | 19.7 |
| 30°-40° | 90.1 | 4.5 |
| 40°-50° | 30.9 | 1.5 |
| 50°-60° | 7.6 | 0.4 |
| 60°-70° | 2.0 | 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° | 1877.6 | 93.5 |
| 0°-40° | 1967.7 | 98.0 |
| 0°-60° | 2006.2 | 99.9 |
| 0°-90° | 2008.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2008.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6458 | 6458 | 6458 | 6458 | 6458 | |
| 5° | 6249 | 6243 | 6241 | 6254 | 6249 | 568 |
| 15° | 3424 | 3383 | 3406 | 3394 | 3388 | 917 |
| 25° | 805 | 835 | 907 | 814 | 788 | 385 |
| 35° | 135 | 138 | 129 | 128 | 108 | 92 |
| 45° | 36 | 44 | 44 | 44 | 36 | 25 |
| 55° | 6 | 6 | 11 | 6 | 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° | 6457.9 | 6457.9 | 6457.9 | 6457.9 | 6457.9 |
| 2.5° | 6415.1 | 6410.6 | 6413.2 | 6416.4 | 6417.6 |
| 5° | 6248.7 | 6242.6 | 6241.3 | 6254.3 | 6248.9 |
| 7.5° | 5912.9 | 5904.3 | 5891.3 | 5920.8 | 5948.4 |
| 10° | 5350.4 | 5340.9 | 5312.7 | 5326.6 | 5349.1 |
| 12.5° | 4520.0 | 4489.2 | 4488.6 | 4533.0 | 4527.0 |
| 15° | 3424.0 | 3382.7 | 3405.6 | 3394.4 | 3388.4 |
| 17.5° | 2302.5 | 2286.6 | 2317.1 | 2307.9 | 2268.3 |
| 20° | 1656.3 | 1660.5 | 1718.5 | 1689.3 | 1654.1 |
| 22.5° | 1208.6 | 1223.5 | 1292.3 | 1217.2 | 1189.6 |
| 25° | 804.7 | 835.1 | 907.4 | 813.9 | 788.2 |
| 27.5° | 494.9 | 508.9 | 582.1 | 488.6 | 474.6 |
| 30° | 307.8 | 300.9 | 335.5 | 287.9 | 268.3 |
| 32.5° | 202.0 | 193.1 | 204.2 | 183.3 | 167.4 |
| 35° | 135.0 | 137.9 | 129.4 | 128.4 | 108.5 |
| 37.5° | 84.3 | 97.0 | 85.6 | 91.3 | 69.7 |
| 40° | 54.5 | 70.4 | 60.6 | 66.9 | 51.3 |
| 42.5° | 44.7 | 54.2 | 49.8 | 52.9 | 45.7 |
| 45° | 35.5 | 44.1 | 44.1 | 44.1 | 35.8 |
| 47.5° | 19.7 | 29.5 | 37.8 | 30.1 | 20.9 |
| 50° | 11.1 | 14.9 | 29.2 | 15.5 | 11.7 |
| 52.5° | 7.6 | 8.5 | 20.0 | 8.9 | 7.9 |
| 55° | 5.7 | 6.0 | 10.8 | 6.4 | 6.0 |
| 57.5° | 4.4 | 4.8 | 5.7 | 4.8 | 4.4 |
| 60° | 3.5 | 3.5 | 4.1 | 3.8 | 3.5 |
| 62.5° | 2.5 | 2.5 | 2.9 | 2.5 | 2.5 |
| 65° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 67.5° | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 70° | 1.0 | 0.6 | 0.6 | 0.6 | 1.0 |
| 72.5° | 0.6 | 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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