

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: P747572

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747572
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: LD4D40BD010-EU4DR3040509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.7 lumens
Efficiency: N/A
Efficacy: 111.0 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

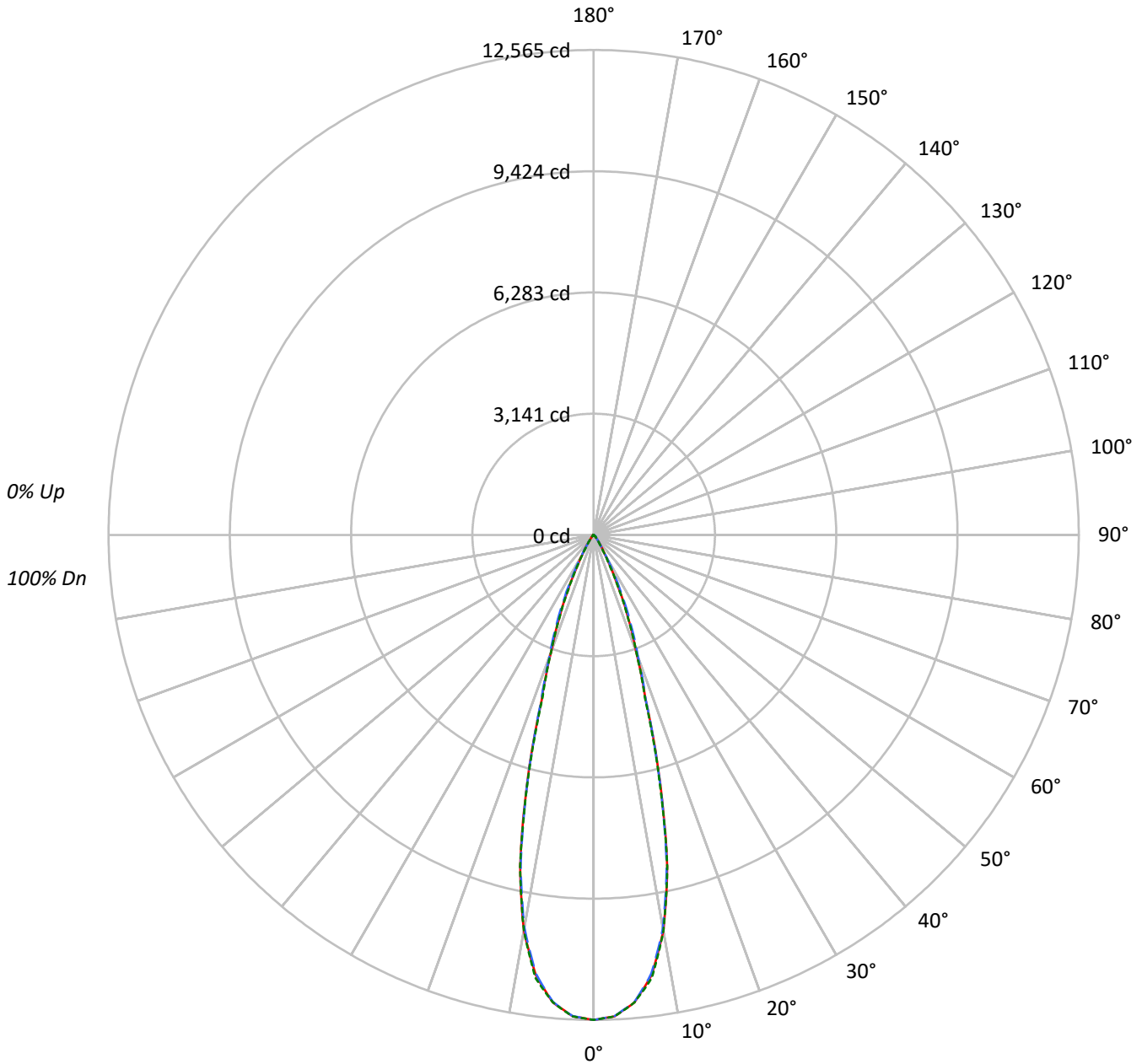
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P747572
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Luminous Intensity Polar Plot





TEST NUMBER: P747572

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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 | | | | | | | | | | | | | | | | | | | |
| 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° | 961791 | 961791 | 961791 |
| 5° | 934177 | 933086 | 934223 |
| 10° | 809140 | 803435 | 808946 |
| 15° | 527921 | 525084 | 522445 |
| 20° | 262508 | 272364 | 262157 |
| 25° | 132233 | 149116 | 129522 |
| 30° | 52942 | 57689 | 46128 |
| 35° | 24557 | 23519 | 19716 |
| 40° | 10602 | 11771 | 9982 |
| 45° | 7480 | 9288 | 7545 |
| 50° | 2572 | 6764 | 2715 |
| 55° | 1481 | 2802 | 1561 |
| 60° | 1041 | 1225 | 1041 |
| 65° | 670 | 670 | 670 |
| 70° | 425 | 269 | 425 |
| 75° | 0 | 177 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9288 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1104.9 | 28.3 |
| 10°-20° | 1779.5 | 45.5 |
| 20°-30° | 769.0 | 19.7 |
| 30°-40° | 175.3 | 4.5 |
| 40°-50° | 60.2 | 1.5 |
| 50°-60° | 14.7 | 0.4 |
| 60°-70° | 3.8 | 0.1 |
| 70°-80° | 0.4 | 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° | 3653.4 | 93.5 |
| 0°-40° | 3828.6 | 98.0 |
| 0°-60° | 3903.5 | 99.9 |
| 0°-90° | 3907.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3907.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 12565 | 12565 | 12565 | 12565 | 12565 | |
| 5° | 12158 | 12146 | 12144 | 12169 | 12159 | 1106 |
| 15° | 6662 | 6582 | 6626 | 6605 | 6593 | 1784 |
| 25° | 1566 | 1625 | 1766 | 1584 | 1534 | 749 |
| 35° | 263 | 268 | 252 | 250 | 211 | 178 |
| 45° | 69 | 86 | 86 | 86 | 70 | 49 |
| 55° | 11 | 12 | 21 | 12 | 12 | 11 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 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° | 12565.3 | 12565.3 | 12565.3 | 12565.3 | 12565.3 |
| 2.5° | 12482.0 | 12473.3 | 12478.3 | 12484.4 | 12486.9 |
| 5° | 12158.1 | 12146.4 | 12143.9 | 12169.2 | 12158.7 |
| 7.5° | 11504.8 | 11488.1 | 11462.8 | 11520.2 | 11573.9 |
| 10° | 10410.4 | 10391.9 | 10337.0 | 10364.1 | 10407.9 |
| 12.5° | 8794.7 | 8734.9 | 8733.6 | 8820.0 | 8808.3 |
| 15° | 6662.0 | 6581.8 | 6626.2 | 6604.7 | 6592.9 |
| 17.5° | 4480.0 | 4449.2 | 4508.4 | 4490.5 | 4413.4 |
| 20° | 3222.7 | 3230.8 | 3343.7 | 3286.9 | 3218.4 |
| 22.5° | 2351.7 | 2380.7 | 2514.5 | 2368.3 | 2314.7 |
| 25° | 1565.7 | 1624.9 | 1765.6 | 1583.6 | 1533.6 |
| 27.5° | 963.0 | 990.1 | 1132.6 | 950.7 | 923.5 |
| 30° | 599.0 | 585.4 | 652.7 | 560.2 | 521.9 |
| 32.5° | 393.0 | 375.7 | 397.3 | 356.6 | 325.7 |
| 35° | 262.8 | 268.4 | 251.7 | 249.8 | 211.0 |
| 37.5° | 164.1 | 188.8 | 166.6 | 177.7 | 135.7 |
| 40° | 106.1 | 137.0 | 117.8 | 130.2 | 99.9 |
| 42.5° | 87.0 | 105.5 | 96.9 | 103.0 | 88.8 |
| 45° | 69.1 | 85.8 | 85.8 | 85.8 | 69.7 |
| 47.5° | 38.2 | 57.4 | 73.4 | 58.6 | 40.7 |
| 50° | 21.6 | 29.0 | 56.8 | 30.2 | 22.8 |
| 52.5° | 14.8 | 16.7 | 38.9 | 17.3 | 15.4 |
| 55° | 11.1 | 11.7 | 21.0 | 12.3 | 11.7 |
| 57.5° | 8.6 | 9.3 | 11.1 | 9.3 | 8.6 |
| 60° | 6.8 | 6.8 | 8.0 | 7.4 | 6.8 |
| 62.5° | 4.9 | 4.9 | 5.6 | 4.9 | 4.9 |
| 65° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 67.5° | 1.9 | 2.5 | 2.5 | 2.5 | 2.5 |
| 70° | 1.9 | 1.2 | 1.2 | 1.2 | 1.9 |
| 72.5° | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 |
| 75° | 0.0 | 0.0 | 0.6 | 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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