

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: P747533

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747533
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-EU4DR3040509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.6 lumens
Efficiency: N/A
Efficacy: 94.1 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

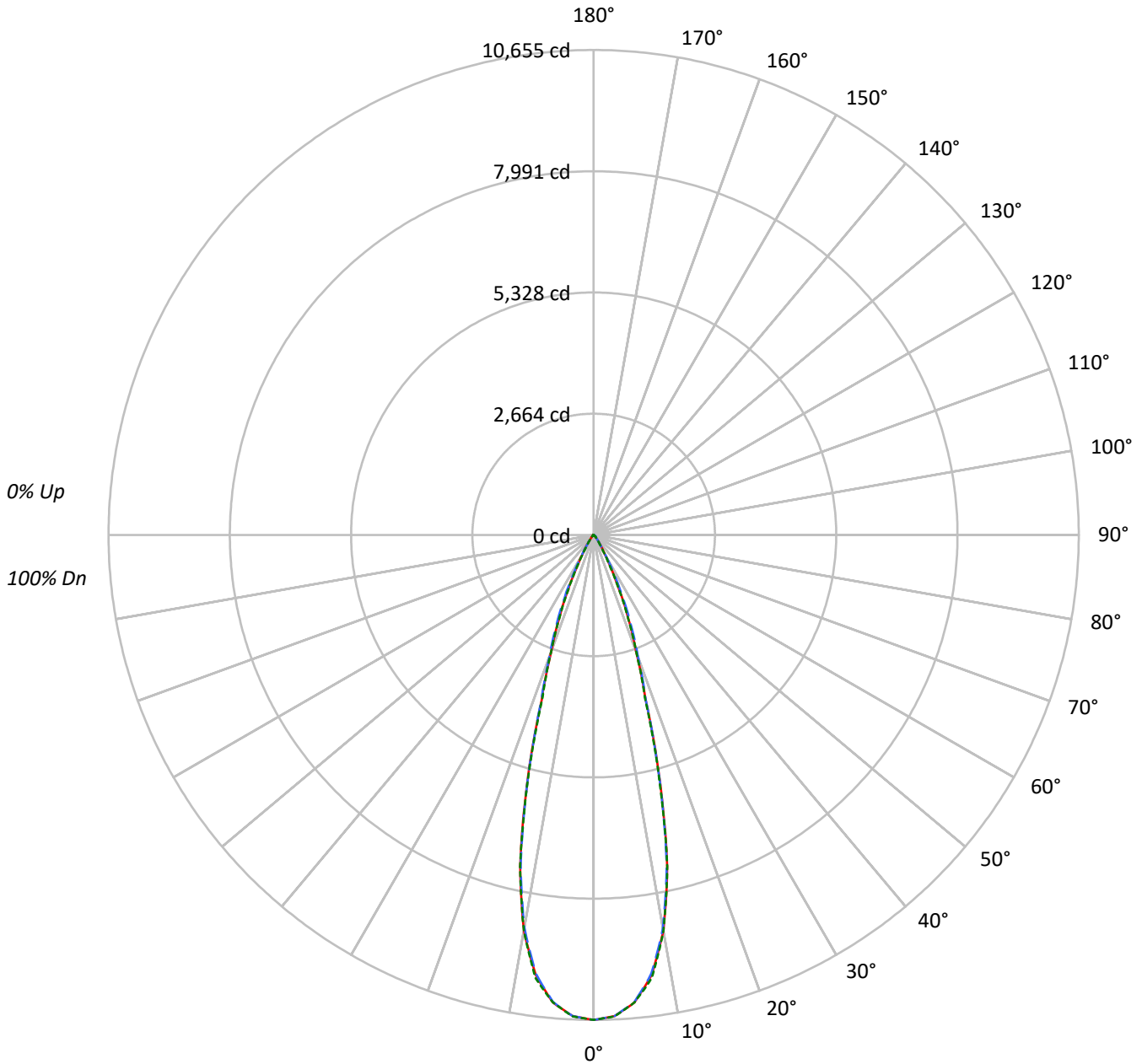
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P747533
CATALOG NUMBER: LD4D40BD010-EU4DR3040509024-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P747533

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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° | 815555 | 815555 | 815555 |
| 5° | 792138 | 791216 | 792185 |
| 10° | 686118 | 681276 | 685955 |
| 15° | 447655 | 445254 | 443011 |
| 20° | 222602 | 230952 | 222301 |
| 25° | 112133 | 126448 | 109835 |
| 30° | 44891 | 48921 | 39119 |
| 35° | 20819 | 19941 | 16717 |
| 40° | 8993 | 9982 | 8463 |
| 45° | 6343 | 7870 | 6397 |
| 50° | 2179 | 5728 | 2310 |
| 55° | 1254 | 2375 | 1321 |
| 60° | 888 | 1041 | 888 |
| 65° | 561 | 561 | 561 |
| 70° | 358 | 224 | 358 |
| 75° | 0 | 148 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7870 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 936.9 | 28.3 |
| 10°-20° | 1508.9 | 45.5 |
| 20°-30° | 652.1 | 19.7 |
| 30°-40° | 148.6 | 4.5 |
| 40°-50° | 51.0 | 1.5 |
| 50°-60° | 12.5 | 0.4 |
| 60°-70° | 3.2 | 0.1 |
| 70°-80° | 0.3 | 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° | 3097.9 | 93.5 |
| 0°-40° | 3246.5 | 98.0 |
| 0°-60° | 3310.0 | 99.9 |
| 0°-90° | 3313.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3313.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10655 | 10655 | 10655 | 10655 | 10655 | |
| 5° | 10310 | 10300 | 10298 | 10319 | 10310 | 938 |
| 15° | 5649 | 5581 | 5619 | 5600 | 5590 | 1513 |
| 25° | 1328 | 1378 | 1497 | 1343 | 1300 | 636 |
| 35° | 223 | 228 | 213 | 212 | 179 | 151 |
| 45° | 59 | 73 | 73 | 73 | 59 | 42 |
| 55° | 9 | 10 | 18 | 10 | 10 | 9 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 10654.8 | 10654.8 | 10654.8 | 10654.8 | 10654.8 |
| 2.5° | 10584.2 | 10576.9 | 10581.0 | 10586.3 | 10588.4 |
| 5° | 10309.5 | 10299.6 | 10297.5 | 10319.0 | 10310.1 |
| 7.5° | 9755.6 | 9741.4 | 9720.0 | 9768.6 | 9814.2 |
| 10° | 8827.6 | 8811.9 | 8765.3 | 8788.3 | 8825.5 |
| 12.5° | 7457.5 | 7406.8 | 7405.7 | 7479.0 | 7469.0 |
| 15° | 5649.1 | 5581.1 | 5618.8 | 5600.5 | 5590.5 |
| 17.5° | 3798.9 | 3772.7 | 3822.9 | 3807.8 | 3742.4 |
| 20° | 2732.8 | 2739.6 | 2835.3 | 2787.2 | 2729.1 |
| 22.5° | 1994.1 | 2018.7 | 2132.2 | 2008.2 | 1962.7 |
| 25° | 1327.7 | 1377.9 | 1497.2 | 1342.8 | 1300.5 |
| 27.5° | 816.6 | 839.6 | 960.4 | 806.1 | 783.1 |
| 30° | 507.9 | 496.4 | 553.5 | 475.0 | 442.6 |
| 32.5° | 333.2 | 318.6 | 336.9 | 302.4 | 276.2 |
| 35° | 222.8 | 227.6 | 213.4 | 211.9 | 178.9 |
| 37.5° | 139.1 | 160.1 | 141.2 | 150.7 | 115.1 |
| 40° | 90.0 | 116.1 | 99.9 | 110.4 | 84.7 |
| 42.5° | 73.8 | 89.5 | 82.1 | 87.4 | 75.3 |
| 45° | 58.6 | 72.7 | 72.7 | 72.7 | 59.1 |
| 47.5° | 32.4 | 48.6 | 62.3 | 49.7 | 34.5 |
| 50° | 18.3 | 24.6 | 48.1 | 25.6 | 19.4 |
| 52.5° | 12.6 | 14.1 | 33.0 | 14.6 | 13.1 |
| 55° | 9.4 | 9.9 | 17.8 | 10.5 | 9.9 |
| 57.5° | 7.3 | 7.8 | 9.4 | 7.8 | 7.3 |
| 60° | 5.8 | 5.8 | 6.8 | 6.3 | 5.8 |
| 62.5° | 4.2 | 4.2 | 4.7 | 4.2 | 4.2 |
| 65° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 67.5° | 1.6 | 2.1 | 2.1 | 2.1 | 2.1 |
| 70° | 1.6 | 1.0 | 1.0 | 1.0 | 1.6 |
| 72.5° | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 75° | 0.0 | 0.0 | 0.5 | 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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