

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: P747552

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747552
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-EU4DR3040509030-4LBCSSQMMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.7 lumens
Efficiency: N/A
Efficacy: 95.3 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

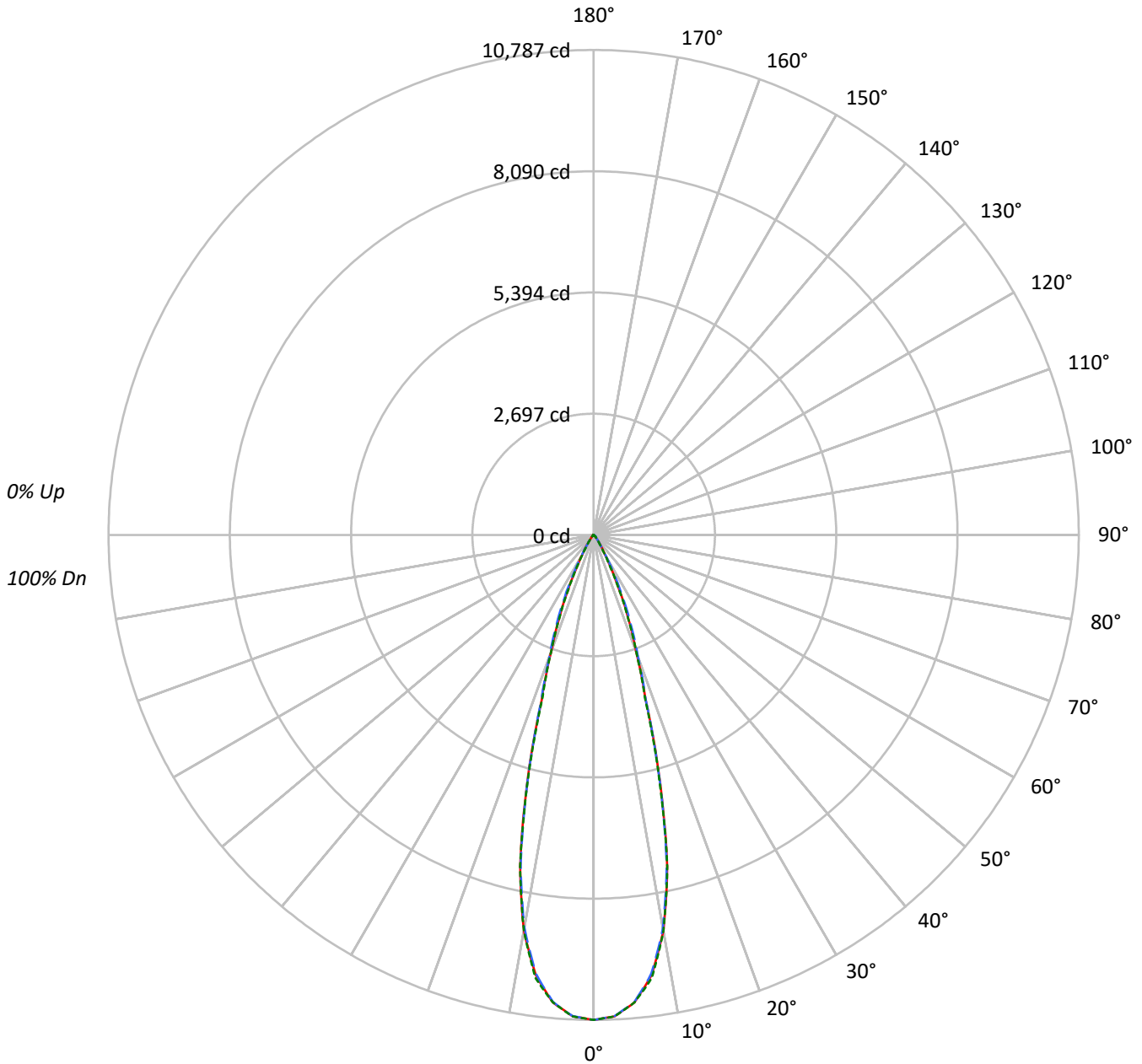
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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° | 825681 | 825681 | 825681 |
| 5° | 801973 | 801036 | 802020 |
| 10° | 694629 | 689732 | 694466 |
| 15° | 453210 | 450777 | 448511 |
| 20° | 225364 | 233819 | 225062 |
| 25° | 113518 | 128010 | 111195 |
| 30° | 45456 | 49522 | 39596 |
| 35° | 21081 | 20193 | 16922 |
| 40° | 9103 | 10112 | 8573 |
| 45° | 6419 | 7967 | 6473 |
| 50° | 2203 | 5799 | 2334 |
| 55° | 1268 | 2402 | 1348 |
| 60° | 888 | 1056 | 888 |
| 65° | 580 | 580 | 580 |
| 70° | 358 | 246 | 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: 7967 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 948.6 | 28.3 |
| 10°-20° | 1527.7 | 45.5 |
| 20°-30° | 660.1 | 19.7 |
| 30°-40° | 150.5 | 4.5 |
| 40°-50° | 51.7 | 1.5 |
| 50°-60° | 12.6 | 0.4 |
| 60°-70° | 3.3 | 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° | 3136.4 | 93.5 |
| 0°-40° | 3286.8 | 98.0 |
| 0°-60° | 3351.1 | 99.9 |
| 0°-90° | 3354.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3354.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10787 | 10787 | 10787 | 10787 | 10787 | |
| 5° | 10438 | 10428 | 10425 | 10447 | 10438 | 949 |
| 15° | 5719 | 5650 | 5688 | 5670 | 5660 | 1531 |
| 25° | 1344 | 1395 | 1516 | 1360 | 1317 | 643 |
| 35° | 226 | 230 | 216 | 214 | 181 | 153 |
| 45° | 59 | 74 | 74 | 74 | 60 | 42 |
| 55° | 10 | 10 | 18 | 11 | 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° | 10787.1 | 10787.1 | 10787.1 | 10787.1 | 10787.1 |
| 2.5° | 10715.6 | 10708.2 | 10712.4 | 10717.7 | 10719.8 |
| 5° | 10437.5 | 10427.5 | 10425.3 | 10447.1 | 10438.1 |
| 7.5° | 9876.7 | 9862.4 | 9840.7 | 9889.9 | 9936.0 |
| 10° | 8937.1 | 8921.3 | 8874.1 | 8897.4 | 8935.0 |
| 12.5° | 7550.1 | 7498.7 | 7497.7 | 7571.8 | 7561.8 |
| 15° | 5719.2 | 5650.4 | 5688.5 | 5670.0 | 5659.9 |
| 17.5° | 3846.0 | 3819.5 | 3870.4 | 3855.0 | 3788.8 |
| 20° | 2766.7 | 2773.6 | 2870.5 | 2821.8 | 2763.0 |
| 22.5° | 2018.9 | 2043.8 | 2158.7 | 2033.2 | 1987.1 |
| 25° | 1344.1 | 1395.0 | 1515.7 | 1359.5 | 1316.6 |
| 27.5° | 826.7 | 850.0 | 972.4 | 816.1 | 792.8 |
| 30° | 514.3 | 502.6 | 560.3 | 480.9 | 448.0 |
| 32.5° | 337.4 | 322.5 | 341.1 | 306.1 | 279.6 |
| 35° | 225.6 | 230.4 | 216.1 | 214.5 | 181.1 |
| 37.5° | 140.9 | 162.1 | 143.0 | 152.5 | 116.5 |
| 40° | 91.1 | 117.6 | 101.2 | 111.7 | 85.8 |
| 42.5° | 74.7 | 90.6 | 83.1 | 88.4 | 76.3 |
| 45° | 59.3 | 73.6 | 73.6 | 73.6 | 59.8 |
| 47.5° | 32.8 | 49.3 | 63.0 | 50.3 | 35.0 |
| 50° | 18.5 | 24.9 | 48.7 | 26.0 | 19.6 |
| 52.5° | 12.7 | 14.3 | 33.4 | 14.8 | 13.2 |
| 55° | 9.5 | 10.1 | 18.0 | 10.6 | 10.1 |
| 57.5° | 7.4 | 7.9 | 9.5 | 7.9 | 7.4 |
| 60° | 5.8 | 5.8 | 6.9 | 6.4 | 5.8 |
| 62.5° | 4.2 | 4.2 | 4.8 | 4.2 | 4.2 |
| 65° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 67.5° | 1.6 | 2.1 | 2.1 | 2.1 | 2.1 |
| 70° | 1.6 | 1.1 | 1.1 | 1.1 | 1.6 |
| 72.5° | 1.1 | 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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