

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: P749874

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749874
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: LD4D55D010-EU4DR3055659024-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 5060.4 lumens
Efficiency: N/A
Efficacy: 86.9 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

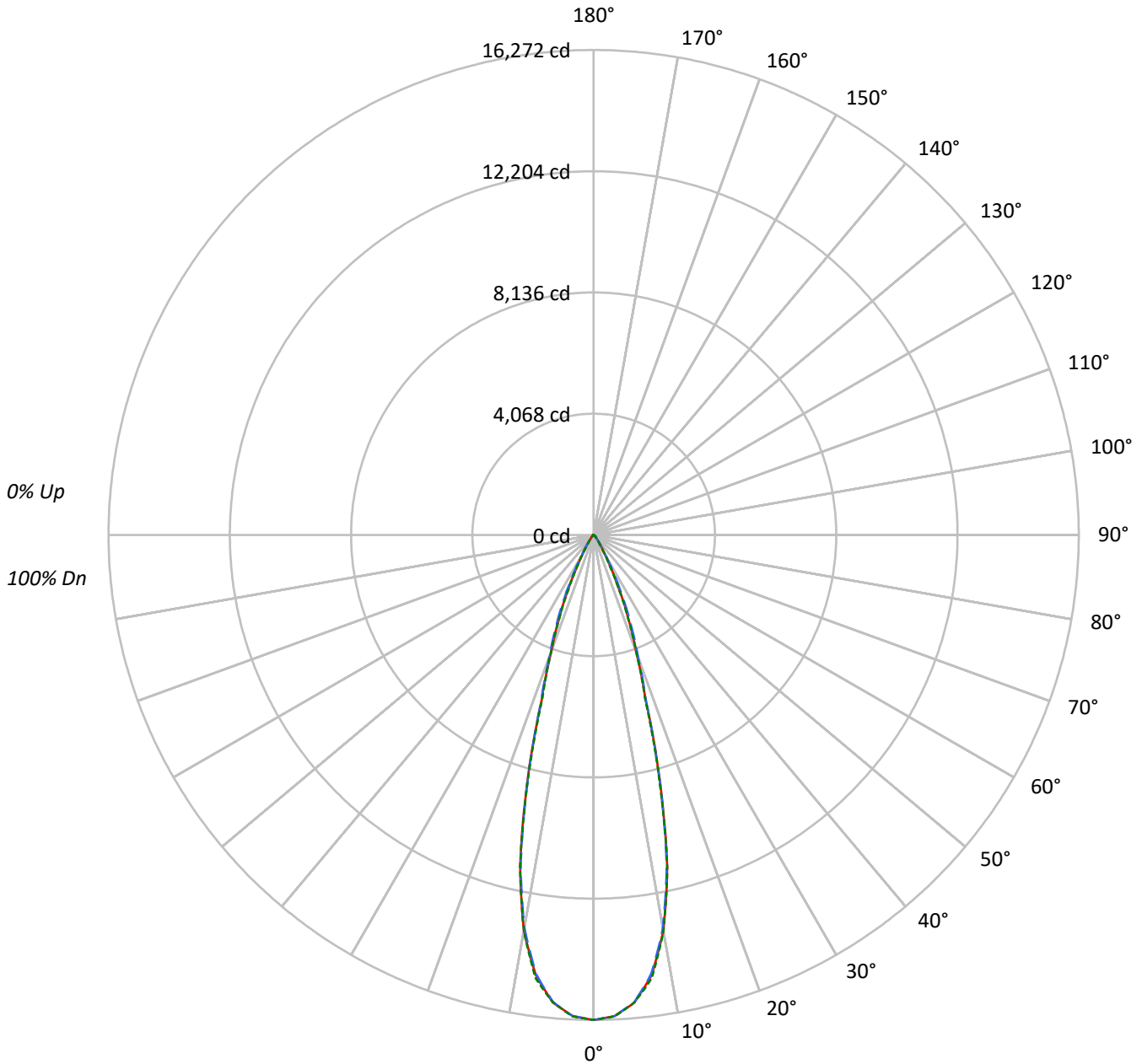
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





TEST NUMBER: P749874

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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° | 1245484 | 1245484 | 1245484 |
| 5° | 1209733 | 1208319 | 1209787 |
| 10° | 1047808 | 1040424 | 1047559 |
| 15° | 683642 | 679973 | 676550 |
| 20° | 339948 | 352695 | 339491 |
| 25° | 171244 | 193101 | 167730 |
| 30° | 68560 | 74703 | 59739 |
| 35° | 31798 | 30453 | 25528 |
| 40° | 13729 | 15248 | 12930 |
| 45° | 9688 | 12016 | 9775 |
| 50° | 3334 | 8752 | 3525 |
| 55° | 1922 | 3630 | 2028 |
| 60° | 1347 | 1592 | 1347 |
| 65° | 869 | 869 | 869 |
| 70° | 537 | 358 | 537 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12016 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1430.8 | 28.3 |
| 10°-20° | 2304.4 | 45.5 |
| 20°-30° | 995.8 | 19.7 |
| 30°-40° | 227.0 | 4.5 |
| 40°-50° | 77.9 | 1.5 |
| 50°-60° | 19.0 | 0.4 |
| 60°-70° | 4.9 | 0.1 |
| 70°-80° | 0.5 | 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° | 4731.0 | 93.5 |
| 0°-40° | 4958.0 | 98.0 |
| 0°-60° | 5054.9 | 99.9 |
| 0°-90° | 5060.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5060.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16272 | 16272 | 16272 | 16272 | 16272 | |
| 5° | 15744 | 15729 | 15726 | 15759 | 15745 | 1432 |
| 15° | 8627 | 8523 | 8581 | 8553 | 8538 | 2310 |
| 25° | 2028 | 2104 | 2286 | 2051 | 1986 | 971 |
| 35° | 340 | 348 | 326 | 324 | 273 | 231 |
| 45° | 90 | 111 | 111 | 111 | 90 | 63 |
| 55° | 14 | 15 | 27 | 16 | 15 | 14 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 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° | 16271.6 | 16271.6 | 16271.6 | 16271.6 | 16271.6 |
| 2.5° | 16163.8 | 16152.6 | 16159.0 | 16167.0 | 16170.2 |
| 5° | 15744.4 | 15729.2 | 15726.0 | 15758.7 | 15745.1 |
| 7.5° | 14898.3 | 14876.8 | 14844.0 | 14918.3 | 14987.8 |
| 10° | 13481.1 | 13457.2 | 13386.1 | 13421.2 | 13477.9 |
| 12.5° | 11388.9 | 11311.4 | 11309.8 | 11421.6 | 11406.4 |
| 15° | 8627.1 | 8523.3 | 8580.8 | 8552.8 | 8537.6 |
| 17.5° | 5801.5 | 5761.5 | 5838.2 | 5815.1 | 5715.2 |
| 20° | 4173.4 | 4183.7 | 4329.9 | 4256.4 | 4167.8 |
| 22.5° | 3045.3 | 3082.9 | 3256.2 | 3066.9 | 2997.4 |
| 25° | 2027.6 | 2104.3 | 2286.4 | 2050.7 | 1986.0 |
| 27.5° | 1247.1 | 1282.2 | 1466.7 | 1231.1 | 1195.9 |
| 30° | 775.7 | 758.1 | 845.2 | 725.4 | 675.9 |
| 32.5° | 508.9 | 486.5 | 514.5 | 461.8 | 421.8 |
| 35° | 340.3 | 347.5 | 325.9 | 323.5 | 273.2 |
| 37.5° | 212.5 | 244.5 | 215.7 | 230.1 | 175.8 |
| 40° | 137.4 | 177.4 | 152.6 | 168.6 | 129.4 |
| 42.5° | 112.6 | 136.6 | 125.4 | 133.4 | 115.0 |
| 45° | 89.5 | 111.0 | 111.0 | 111.0 | 90.3 |
| 47.5° | 49.5 | 74.3 | 95.1 | 75.9 | 52.7 |
| 50° | 28.0 | 37.5 | 73.5 | 39.1 | 29.6 |
| 52.5° | 19.2 | 21.6 | 50.3 | 22.4 | 20.0 |
| 55° | 14.4 | 15.2 | 27.2 | 16.0 | 15.2 |
| 57.5° | 11.2 | 12.0 | 14.4 | 12.0 | 11.2 |
| 60° | 8.8 | 8.8 | 10.4 | 9.6 | 8.8 |
| 62.5° | 6.4 | 6.4 | 7.2 | 6.4 | 6.4 |
| 65° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 67.5° | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 2.4 | 1.6 | 1.6 | 1.6 | 2.4 |
| 72.5° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.8 | 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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