

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: P749889

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749889
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-EU4DR3055659027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.4 lumens
Efficiency: N/A
Efficacy: 67.7 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

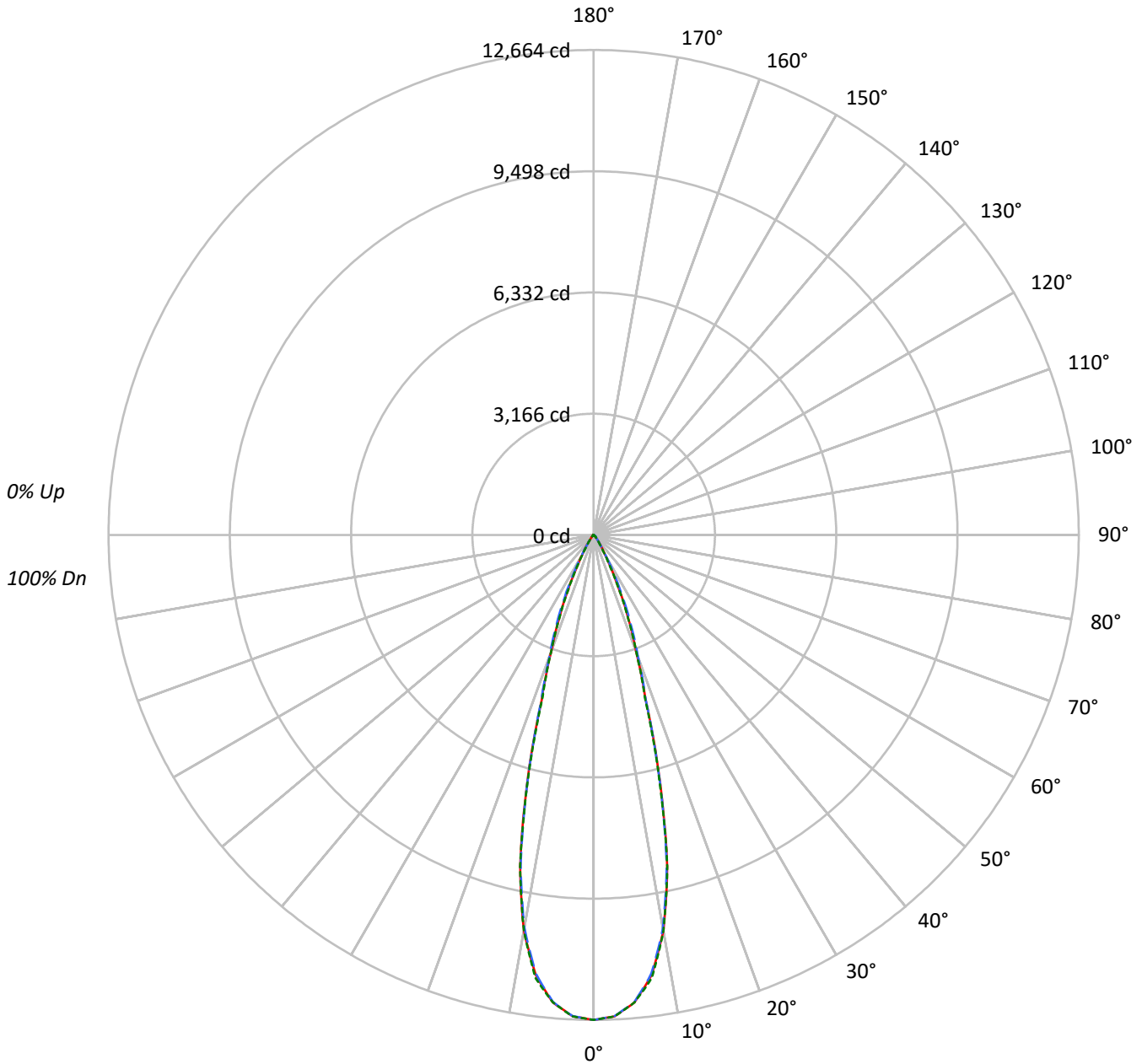
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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° | 969346 | 969346 | 969346 |
| 5° | 941523 | 940424 | 941569 |
| 10° | 815498 | 809746 | 815304 |
| 15° | 532073 | 529212 | 526558 |
| 20° | 264577 | 274498 | 264218 |
| 25° | 133272 | 150290 | 130544 |
| 30° | 53358 | 58139 | 46490 |
| 35° | 24753 | 23706 | 19866 |
| 40° | 10681 | 11871 | 10062 |
| 45° | 7534 | 9353 | 7610 |
| 50° | 2596 | 6811 | 2739 |
| 55° | 1495 | 2816 | 1575 |
| 60° | 1041 | 1240 | 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: 9353 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1113.6 | 28.3 |
| 10°-20° | 1793.5 | 45.5 |
| 20°-30° | 775.0 | 19.7 |
| 30°-40° | 176.6 | 4.5 |
| 40°-50° | 60.6 | 1.5 |
| 50°-60° | 14.8 | 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° | 3682.1 | 93.5 |
| 0°-40° | 3858.7 | 98.0 |
| 0°-60° | 3934.2 | 99.9 |
| 0°-90° | 3938.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3938.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 12664 | 12664 | 12664 | 12664 | 12664 | |
| 5° | 12254 | 12242 | 12239 | 12265 | 12254 | 1115 |
| 15° | 6714 | 6634 | 6678 | 6657 | 6645 | 1798 |
| 25° | 1578 | 1638 | 1780 | 1596 | 1546 | 755 |
| 35° | 265 | 270 | 254 | 252 | 213 | 180 |
| 45° | 70 | 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° | 12664.0 | 12664.0 | 12664.0 | 12664.0 | 12664.0 |
| 2.5° | 12580.1 | 12571.4 | 12576.4 | 12582.6 | 12585.1 |
| 5° | 12253.7 | 12241.8 | 12239.4 | 12264.8 | 12254.3 |
| 7.5° | 11595.2 | 11578.4 | 11552.9 | 11610.8 | 11664.8 |
| 10° | 10492.2 | 10473.6 | 10418.2 | 10445.6 | 10489.7 |
| 12.5° | 8863.8 | 8803.5 | 8802.3 | 8889.3 | 8877.5 |
| 15° | 6714.4 | 6633.6 | 6678.3 | 6656.6 | 6644.8 |
| 17.5° | 4515.2 | 4484.1 | 4543.8 | 4525.8 | 4448.1 |
| 20° | 3248.1 | 3256.2 | 3369.9 | 3312.7 | 3243.7 |
| 22.5° | 2370.2 | 2399.4 | 2534.3 | 2386.9 | 2332.8 |
| 25° | 1578.0 | 1637.7 | 1779.5 | 1596.1 | 1545.7 |
| 27.5° | 970.6 | 997.9 | 1141.6 | 958.1 | 930.8 |
| 30° | 603.7 | 590.1 | 657.8 | 564.6 | 526.0 |
| 32.5° | 396.1 | 378.7 | 400.4 | 359.4 | 328.3 |
| 35° | 264.9 | 270.5 | 253.7 | 251.8 | 212.6 |
| 37.5° | 165.4 | 190.3 | 167.9 | 179.1 | 136.8 |
| 40° | 106.9 | 138.0 | 118.8 | 131.2 | 100.7 |
| 42.5° | 87.7 | 106.3 | 97.6 | 103.8 | 89.5 |
| 45° | 69.6 | 86.4 | 86.4 | 86.4 | 70.3 |
| 47.5° | 38.5 | 57.8 | 74.0 | 59.1 | 41.0 |
| 50° | 21.8 | 29.2 | 57.2 | 30.5 | 23.0 |
| 52.5° | 14.9 | 16.8 | 39.2 | 17.4 | 15.5 |
| 55° | 11.2 | 11.8 | 21.1 | 12.4 | 11.8 |
| 57.5° | 8.7 | 9.3 | 11.2 | 9.3 | 8.7 |
| 60° | 6.8 | 6.8 | 8.1 | 7.5 | 6.8 |
| 62.5° | 5.0 | 5.0 | 5.6 | 5.0 | 5.0 |
| 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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