

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: P755392

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755392
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: LD4D90BD010-EU4DR3070959050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

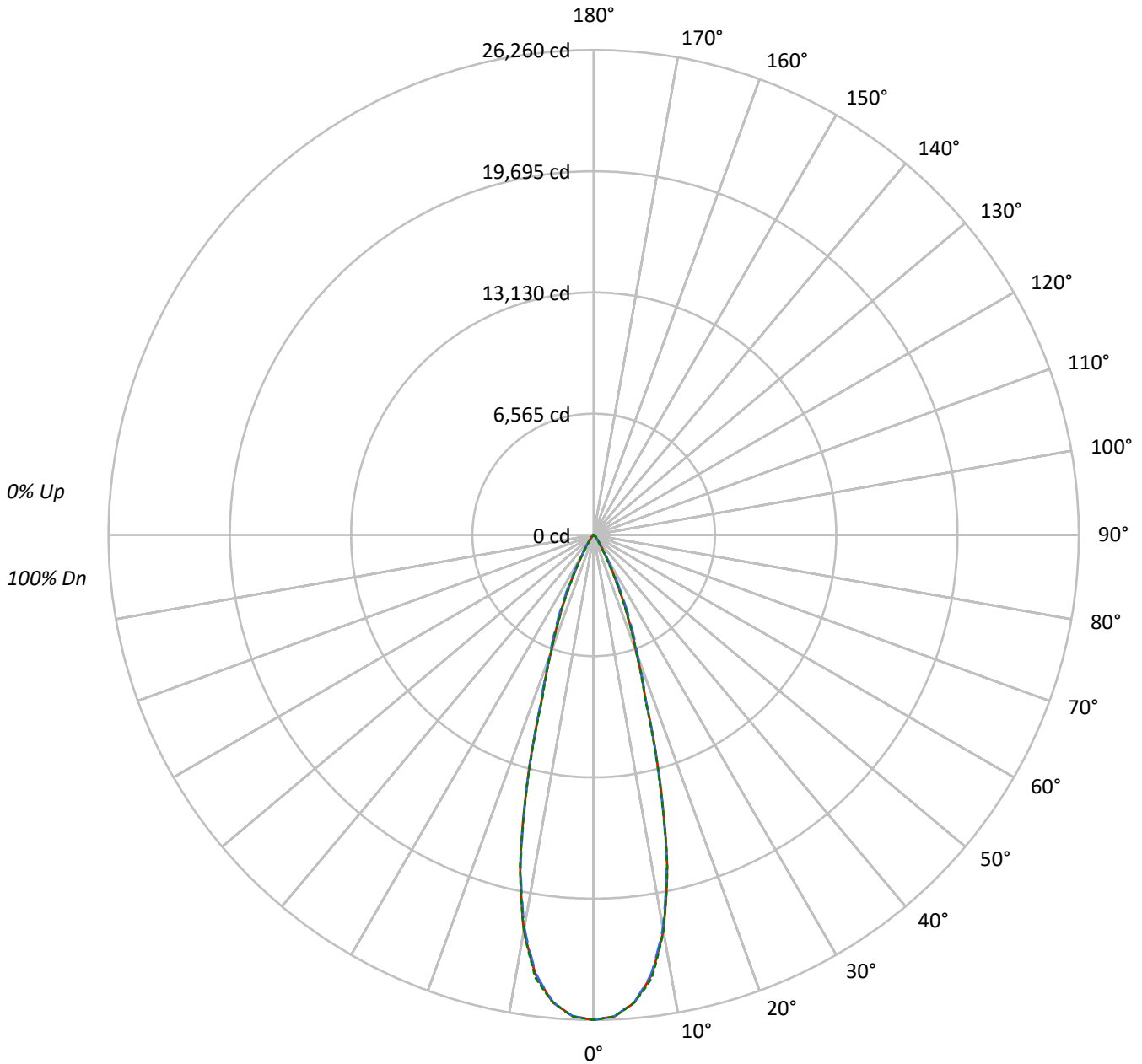
Lumens per Lamp: N/A
Luminaire Lumens: 8166.7 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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° | 2010022 | 2010022 | 2010022 |
| 5° | 1952320 | 1950038 | 1952420 |
| 10° | 1691007 | 1679076 | 1690602 |
| 15° | 1103292 | 1097373 | 1091857 |
| 20° | 548621 | 569205 | 547880 |
| 25° | 276358 | 311635 | 270691 |
| 30° | 110649 | 120557 | 96401 |
| 35° | 51318 | 49151 | 41199 |
| 40° | 22162 | 24610 | 20873 |
| 45° | 15631 | 19398 | 15772 |
| 50° | 5371 | 14123 | 5680 |
| 55° | 3096 | 5845 | 3270 |
| 60° | 2174 | 2572 | 2174 |
| 65° | 1395 | 1395 | 1395 |
| 70° | 873 | 582 | 873 |
| 75° | 0 | 384 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19398 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2309.2 | 28.3 |
| 10°-20° | 3718.9 | 45.5 |
| 20°-30° | 1607.0 | 19.7 |
| 30°-40° | 366.3 | 4.5 |
| 40°-50° | 125.8 | 1.5 |
| 50°-60° | 30.7 | 0.4 |
| 60°-70° | 8.0 | 0.1 |
| 70°-80° | 0.8 | 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° | 7635.1 | 93.5 |
| 0°-40° | 8001.4 | 98.0 |
| 0°-60° | 8157.9 | 99.9 |
| 0°-90° | 8166.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8166.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 26260 | 26260 | 26260 | 26260 | 26260 | |
| 5° | 25409 | 25384 | 25379 | 25432 | 25410 | 2311 |
| 15° | 13923 | 13755 | 13848 | 13803 | 13778 | 3728 |
| 25° | 3272 | 3396 | 3690 | 3310 | 3205 | 1566 |
| 35° | 549 | 561 | 526 | 522 | 441 | 373 |
| 45° | 144 | 179 | 179 | 179 | 146 | 102 |
| 55° | 23 | 24 | 44 | 26 | 24 | 23 |
| 65° | 8 | 8 | 8 | 8 | 8 | 8 |
| 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° | 26259.9 | 26259.9 | 26259.9 | 26259.9 | 26259.9 |
| 2.5° | 26085.8 | 26067.8 | 26078.1 | 26091.0 | 26096.2 |
| 5° | 25409.0 | 25384.5 | 25379.3 | 25432.2 | 25410.3 |
| 7.5° | 24043.6 | 24008.8 | 23956.0 | 24075.9 | 24188.0 |
| 10° | 21756.5 | 21717.8 | 21603.0 | 21659.8 | 21751.3 |
| 12.5° | 18379.9 | 18254.8 | 18252.2 | 18432.7 | 18408.2 |
| 15° | 13922.8 | 13755.2 | 13848.1 | 13802.9 | 13778.5 |
| 17.5° | 9362.7 | 9298.2 | 9422.0 | 9384.6 | 9223.5 |
| 20° | 6735.2 | 6751.9 | 6987.9 | 6869.2 | 6726.1 |
| 22.5° | 4914.7 | 4975.3 | 5255.1 | 4949.5 | 4837.3 |
| 25° | 3272.2 | 3395.9 | 3689.9 | 3309.6 | 3205.1 |
| 27.5° | 2012.6 | 2069.3 | 2367.1 | 1986.8 | 1930.0 |
| 30° | 1251.9 | 1223.5 | 1364.0 | 1170.7 | 1090.7 |
| 32.5° | 821.3 | 785.2 | 830.3 | 745.2 | 680.7 |
| 35° | 549.2 | 560.8 | 526.0 | 522.2 | 440.9 |
| 37.5° | 342.9 | 394.5 | 348.1 | 371.3 | 283.6 |
| 40° | 221.8 | 286.2 | 246.3 | 272.0 | 208.9 |
| 42.5° | 181.8 | 220.5 | 202.4 | 215.3 | 185.7 |
| 45° | 144.4 | 179.2 | 179.2 | 179.2 | 145.7 |
| 47.5° | 79.9 | 119.9 | 153.4 | 122.5 | 85.1 |
| 50° | 45.1 | 60.6 | 118.6 | 63.2 | 47.7 |
| 52.5° | 30.9 | 34.8 | 81.2 | 36.1 | 32.2 |
| 55° | 23.2 | 24.5 | 43.8 | 25.8 | 24.5 |
| 57.5° | 18.0 | 19.3 | 23.2 | 19.3 | 18.0 |
| 60° | 14.2 | 14.2 | 16.8 | 15.5 | 14.2 |
| 62.5° | 10.3 | 10.3 | 11.6 | 10.3 | 10.3 |
| 65° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 67.5° | 3.9 | 5.2 | 5.2 | 5.2 | 5.2 |
| 70° | 3.9 | 2.6 | 2.6 | 2.6 | 3.9 |
| 72.5° | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 |
| 75° | 0.0 | 0.0 | 1.3 | 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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