

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: P749930

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749930
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-EU4DR3055659050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

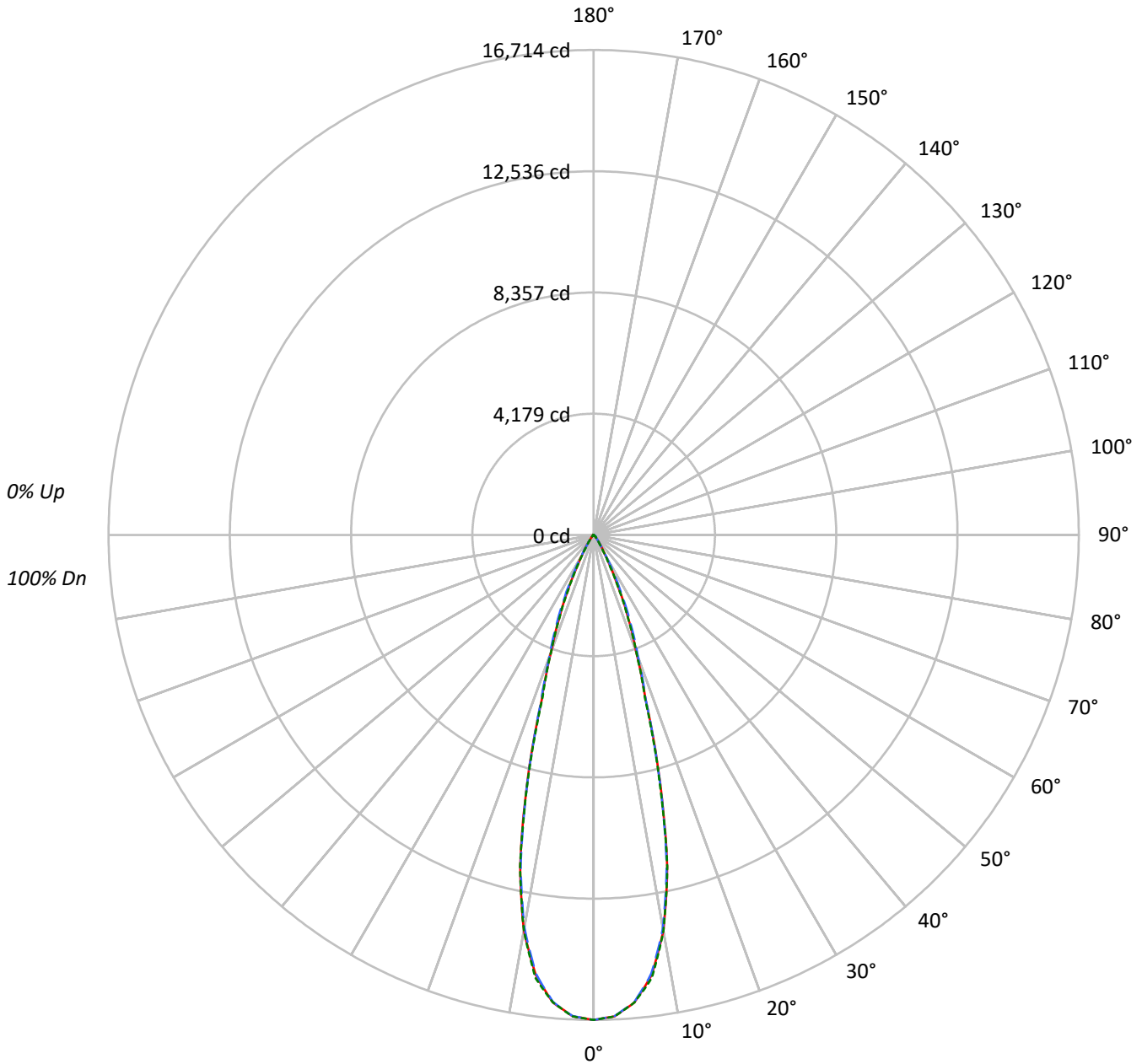
Lumens per Lamp: N/A
Luminaire Lumens: 5198.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | | 70 | | | | | 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° | 1279362 | 1279362 | 1279362 |
| 5° | 1242634 | 1241182 | 1242696 |
| 10° | 1076309 | 1068716 | 1076053 |
| 15° | 702241 | 698469 | 694958 |
| 20° | 349193 | 362291 | 348720 |
| 25° | 175897 | 198354 | 172291 |
| 30° | 70425 | 76736 | 61357 |
| 35° | 32667 | 31284 | 26220 |
| 40° | 14099 | 15658 | 13279 |
| 45° | 9948 | 12351 | 10035 |
| 50° | 3418 | 8991 | 3620 |
| 55° | 1975 | 3723 | 2082 |
| 60° | 1378 | 1638 | 1378 |
| 65° | 887 | 887 | 887 |
| 70° | 559 | 358 | 559 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12351 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1469.8 | 28.3 |
| 10°-20° | 2367.1 | 45.5 |
| 20°-30° | 1022.9 | 19.7 |
| 30°-40° | 233.1 | 4.5 |
| 40°-50° | 80.1 | 1.5 |
| 50°-60° | 19.6 | 0.4 |
| 60°-70° | 5.1 | 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° | 4859.7 | 93.5 |
| 0°-40° | 5092.8 | 98.0 |
| 0°-60° | 5192.4 | 99.9 |
| 0°-90° | 5198.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5198.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16714 | 16714 | 16714 | 16714 | 16714 | |
| 5° | 16173 | 16157 | 16154 | 16187 | 16173 | 1471 |
| 15° | 8862 | 8755 | 8814 | 8786 | 8770 | 2373 |
| 25° | 2083 | 2162 | 2349 | 2106 | 2040 | 997 |
| 35° | 350 | 357 | 335 | 332 | 281 | 237 |
| 45° | 92 | 114 | 114 | 114 | 93 | 65 |
| 55° | 15 | 16 | 28 | 16 | 16 | 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° | 16714.2 | 16714.2 | 16714.2 | 16714.2 | 16714.2 |
| 2.5° | 16603.4 | 16591.9 | 16598.5 | 16606.7 | 16610.0 |
| 5° | 16172.6 | 16157.0 | 16153.7 | 16187.4 | 16173.4 |
| 7.5° | 15303.6 | 15281.4 | 15247.8 | 15324.1 | 15395.5 |
| 10° | 13847.8 | 13823.2 | 13750.1 | 13786.2 | 13844.5 |
| 12.5° | 11698.6 | 11619.0 | 11617.4 | 11732.3 | 11716.7 |
| 15° | 8861.8 | 8755.1 | 8814.2 | 8785.5 | 8769.9 |
| 17.5° | 5959.3 | 5918.2 | 5997.0 | 5973.2 | 5870.6 |
| 20° | 4286.9 | 4297.5 | 4447.7 | 4372.2 | 4281.1 |
| 22.5° | 3128.2 | 3166.7 | 3344.8 | 3150.3 | 3078.9 |
| 25° | 2082.7 | 2161.5 | 2348.6 | 2106.5 | 2040.0 |
| 27.5° | 1281.0 | 1317.1 | 1506.6 | 1264.6 | 1228.5 |
| 30° | 796.8 | 778.8 | 868.2 | 745.1 | 694.2 |
| 32.5° | 522.7 | 499.8 | 528.5 | 474.3 | 433.3 |
| 35° | 349.6 | 357.0 | 334.8 | 332.3 | 280.6 |
| 37.5° | 218.3 | 251.1 | 221.6 | 236.3 | 180.5 |
| 40° | 141.1 | 182.2 | 156.7 | 173.1 | 132.9 |
| 42.5° | 115.7 | 140.3 | 128.8 | 137.0 | 118.2 |
| 45° | 91.9 | 114.1 | 114.1 | 114.1 | 92.7 |
| 47.5° | 50.9 | 76.3 | 97.7 | 78.0 | 54.2 |
| 50° | 28.7 | 38.6 | 75.5 | 40.2 | 30.4 |
| 52.5° | 19.7 | 22.2 | 51.7 | 23.0 | 20.5 |
| 55° | 14.8 | 15.6 | 27.9 | 16.4 | 15.6 |
| 57.5° | 11.5 | 12.3 | 14.8 | 12.3 | 11.5 |
| 60° | 9.0 | 9.0 | 10.7 | 9.8 | 9.0 |
| 62.5° | 6.6 | 6.6 | 7.4 | 6.6 | 6.6 |
| 65° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 67.5° | 2.5 | 3.3 | 3.3 | 3.3 | 3.3 |
| 70° | 2.5 | 1.6 | 1.6 | 1.6 | 2.5 |
| 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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