

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: P749683

Luminaire Tested: LD4D50D010-EU4DR6540509040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P749683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

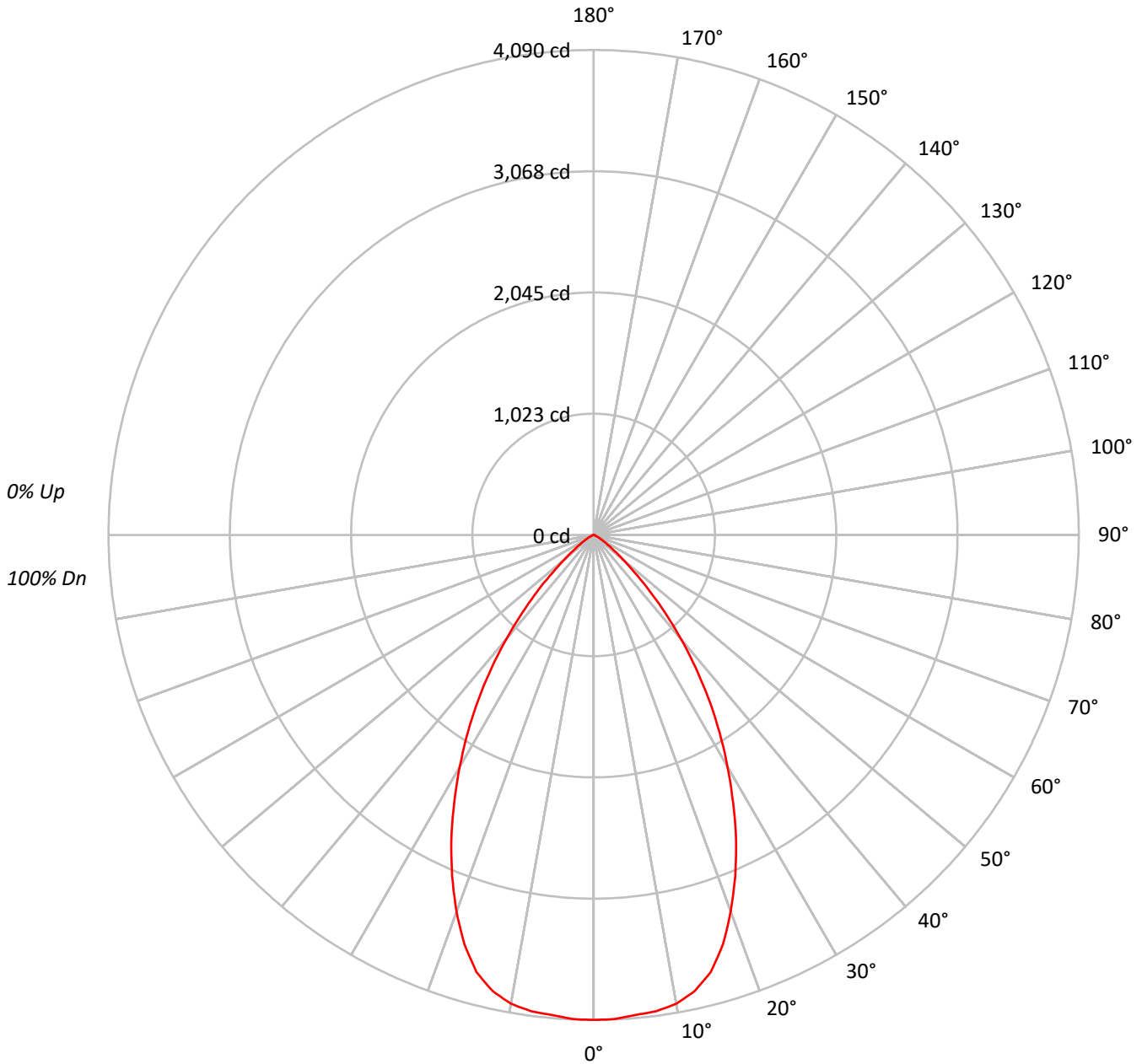
Lumens per Lamp: N/A
Luminaire Lumens: 4504.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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 | | | | 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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 93 | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 | | |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 86 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 78 | | |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 77 | 74 | 80 | 76 | 73 | 72 | | |
| 5 | 90 | 81 | 74 | 70 | 88 | 80 | 74 | 69 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | | |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 62 | 61 | | |
| 7 | 80 | 70 | 64 | 59 | 79 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | |
| 8 | 76 | 66 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 | | |
| 10 | 68 | 58 | 52 | 47 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 238878 |
| 5° | 238272 |
| 10° | 238067 |
| 15° | 230731 |
| 20° | 210049 |
| 25° | 183046 |
| 30° | 152243 |
| 35° | 120629 |
| 40° | 87067 |
| 45° | 55009 |
| 50° | 28666 |
| 55° | 15243 |
| 60° | 8001 |
| 65° | 4408 |
| 70° | 1844 |
| 75° | 2031 |
| 80° | 1413 |
| 85° | 1206 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 55009 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 386.8 | 8.6 |
| 10°-20° | 1059.2 | 23.5 |
| 20°-30° | 1294.7 | 28.7 |
| 30°-40° | 1050.5 | 23.3 |
| 40°-50° | 523.5 | 11.6 |
| 50°-60° | 146.0 | 3.2 |
| 60°-70° | 33.2 | 0.7 |
| 70°-80° | 8.6 | 0.2 |
| 80°-90° | 2.2 | 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° | 2740.6 | 60.8 |
| 0°-40° | 3791.1 | 84.2 |
| 0°-60° | 4460.6 | 99.0 |
| 0°-90° | 4504.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4504.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4090 | |
| 5° | 4064 | 387 |
| 15° | 3816 | 1059 |
| 25° | 2840 | 1295 |
| 35° | 1692 | 1050 |
| 45° | 666 | 523 |
| 55° | 150 | 146 |
| 65° | 32 | 33 |
| 75° | 9 | 9 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4090.1 |
| 2.5° | 4087.1 |
| 5° | 4064.2 |
| 7.5° | 4051.0 |
| 10° | 4014.3 |
| 12.5° | 3939.8 |
| 15° | 3816.0 |
| 17.5° | 3622.5 |
| 20° | 3379.6 |
| 22.5° | 3117.6 |
| 25° | 2840.5 |
| 27.5° | 2544.2 |
| 30° | 2257.5 |
| 32.5° | 1974.4 |
| 35° | 1691.9 |
| 37.5° | 1410.0 |
| 40° | 1142.0 |
| 42.5° | 890.7 |
| 45° | 666.0 |
| 47.5° | 464.0 |
| 50° | 315.5 |
| 52.5° | 217.6 |
| 55° | 149.7 |
| 57.5° | 101.0 |
| 60° | 68.5 |
| 62.5° | 47.5 |
| 65° | 31.9 |
| 67.5° | 16.2 |
| 70° | 10.8 |
| 72.5° | 10.2 |
| 75° | 9.0 |
| 77.5° | 6.0 |
| 80° | 4.2 |
| 82.5° | 3.0 |
| 85° | 1.8 |
| 87.5° | 1.2 |
| 90° | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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