

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: P738953

Luminaire Tested: LD4D02D010-EU4DR200210IC9040-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR200210IC9040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 374.5 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



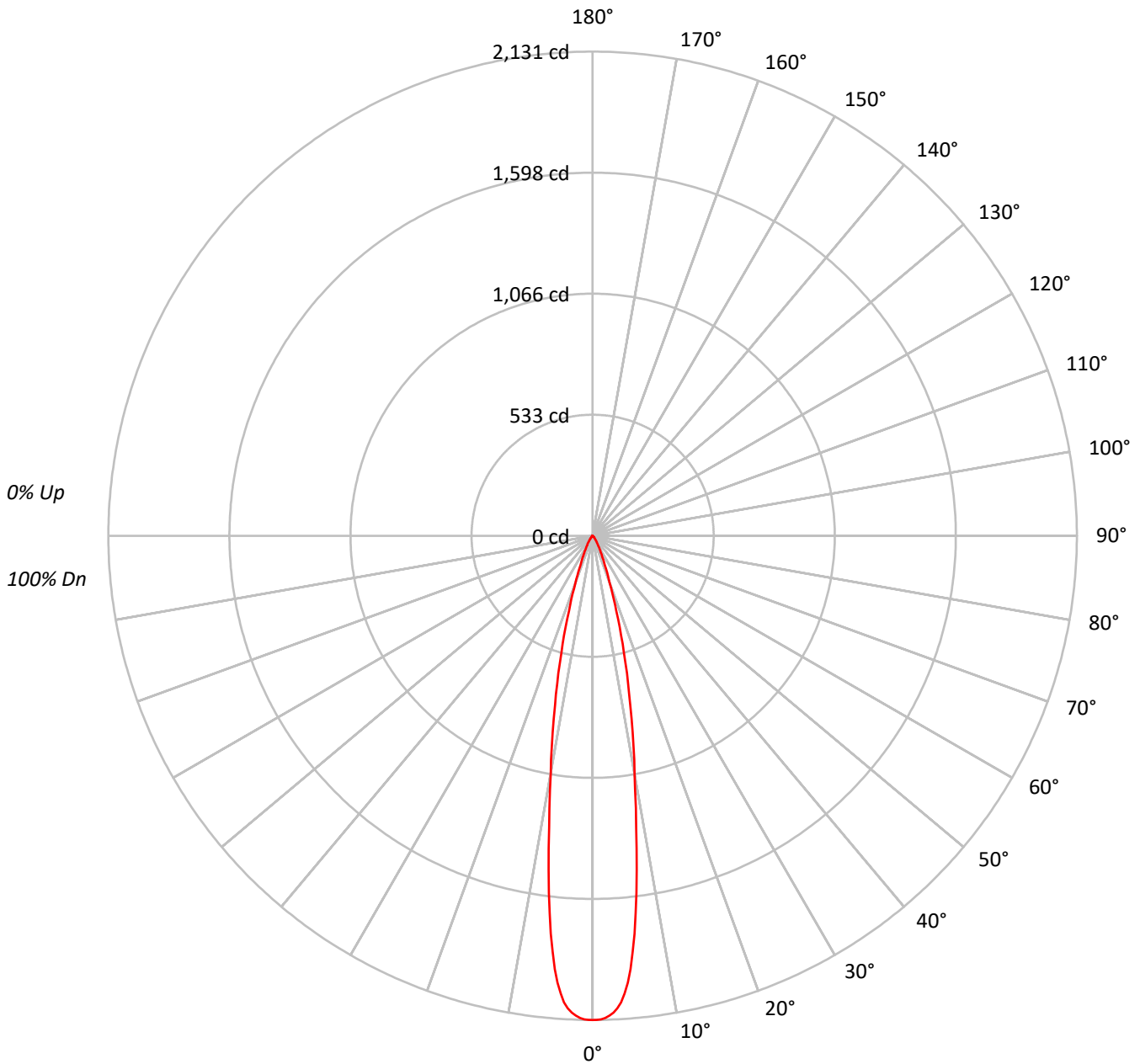
Downlight



TEST NUMBER: P738953

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9040-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P738953

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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 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 100 | 99 | 98 | 97 | 98 | 96 | 95 | 94 | | | | | | | | | | | | |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 94 | | | | | | | | | | | | |
| 3 | 108 | 103 | 100 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 94 | | | | | | | | | | | | |
| 4 | 105 | 99 | 96 | 93 | 103 | 98 | 95 | 92 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 88 | | | | | | | | | | | | |
| 5 | 102 | 96 | 92 | 89 | 100 | 95 | 91 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 85 | | | | | | | | | | | | |
| 6 | 99 | 93 | 89 | 86 | 98 | 92 | 88 | 86 | 91 | 87 | 85 | 90 | 87 | 84 | 88 | 86 | 84 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 83 | | | | | | | | | | | | |
| 7 | 96 | 90 | 86 | 83 | 95 | 89 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 86 | 84 | 82 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 81 | | | | | | | | | | | | |
| 8 | 94 | 87 | 83 | 81 | 93 | 87 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 80 | 84 | 82 | 80 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 79 | | | | | | | | | | | | |
| 9 | 91 | 85 | 81 | 78 | 91 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 78 | 82 | 80 | 78 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 77 | | | | | | | | | | | | |
| 10 | 89 | 83 | 79 | 76 | 88 | 82 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 76 | 98 | 96 | 95 | 94 | 93 | 92 | 91 | 75 | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 232867 |
| 5° | 210088 |
| 10° | 117914 |
| 15° | 59940 |
| 20° | 25382 |
| 25° | 11718 |
| 30° | 6207 |
| 35° | 3348 |
| 40° | 1783 |
| 45° | 1051 |
| 50° | 612 |
| 55° | 324 |
| 60° | 197 |
| 65° | 155 |
| 70° | 64 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1051 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.7 | 40.5 |
| 10°-20° | 149.4 | 39.9 |
| 20°-30° | 48.8 | 13.0 |
| 30°-40° | 16.6 | 4.4 |
| 40°-50° | 5.6 | 1.5 |
| 50°-60° | 1.7 | 0.4 |
| 60°-70° | 0.6 | 0.2 |
| 70°-80° | 0.0 | 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° | 350.0 | 93.5 |
| 0°-40° | 366.6 | 97.9 |
| 0°-60° | 373.9 | 99.8 |
| 0°-90° | 374.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 374.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2131 | |
| 5° | 1916 | 152 |
| 15° | 530 | 149 |
| 25° | 97 | 49 |
| 35° | 25 | 17 |
| 45° | 7 | 6 |
| 55° | 2 | 2 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2131.3 |
| 0.5° | 2131.3 |
| 1° | 2128.6 |
| 1.5° | 2123.3 |
| 2° | 2113.6 |
| 2.5° | 2100.7 |
| 3° | 2082.5 |
| 3.5° | 2057.1 |
| 4° | 2019.3 |
| 4.5° | 1973.4 |
| 5° | 1915.5 |
| 5.5° | 1839.4 |
| 6° | 1761.4 |
| 6.5° | 1672.0 |
| 7° | 1584.5 |
| 7.5° | 1482.0 |
| 8° | 1390.5 |
| 8.5° | 1298.5 |
| 9° | 1213.5 |
| 9.5° | 1135.5 |
| 10° | 1062.8 |
| 12.5° | 763.1 |
| 15° | 529.9 |
| 17.5° | 346.2 |
| 20° | 218.3 |
| 22.5° | 141.4 |
| 25° | 97.2 |
| 27.5° | 68.3 |
| 30° | 49.2 |
| 32.5° | 35.3 |
| 35° | 25.1 |
| 37.5° | 17.5 |
| 40° | 12.5 |
| 42.5° | 9.1 |
| 45° | 6.8 |
| 47.5° | 5.3 |
| 50° | 3.6 |
| 52.5° | 2.3 |
| 55° | 1.7 |
| 57.5° | 1.3 |
| 60° | 0.9 |
| 62.5° | 0.8 |
| 65° | 0.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 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

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

Scaled Data Report





— 0°-180°

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Scaled Data Report



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Scaled Data Report



| | | |
|-------|--|-----|
| 67.5° | | 0.4 |
| 70° | | 0.2 |

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Scaled Data Report



(END OF REPORT)