

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: P741956

Luminaire Tested: LD4D10D010-EU4DR200210IC9027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741956
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: LD4D10D010-EU4DR200210IC9027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 958.5 lumens
Efficiency: N/A
Efficacy: 81.9 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): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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

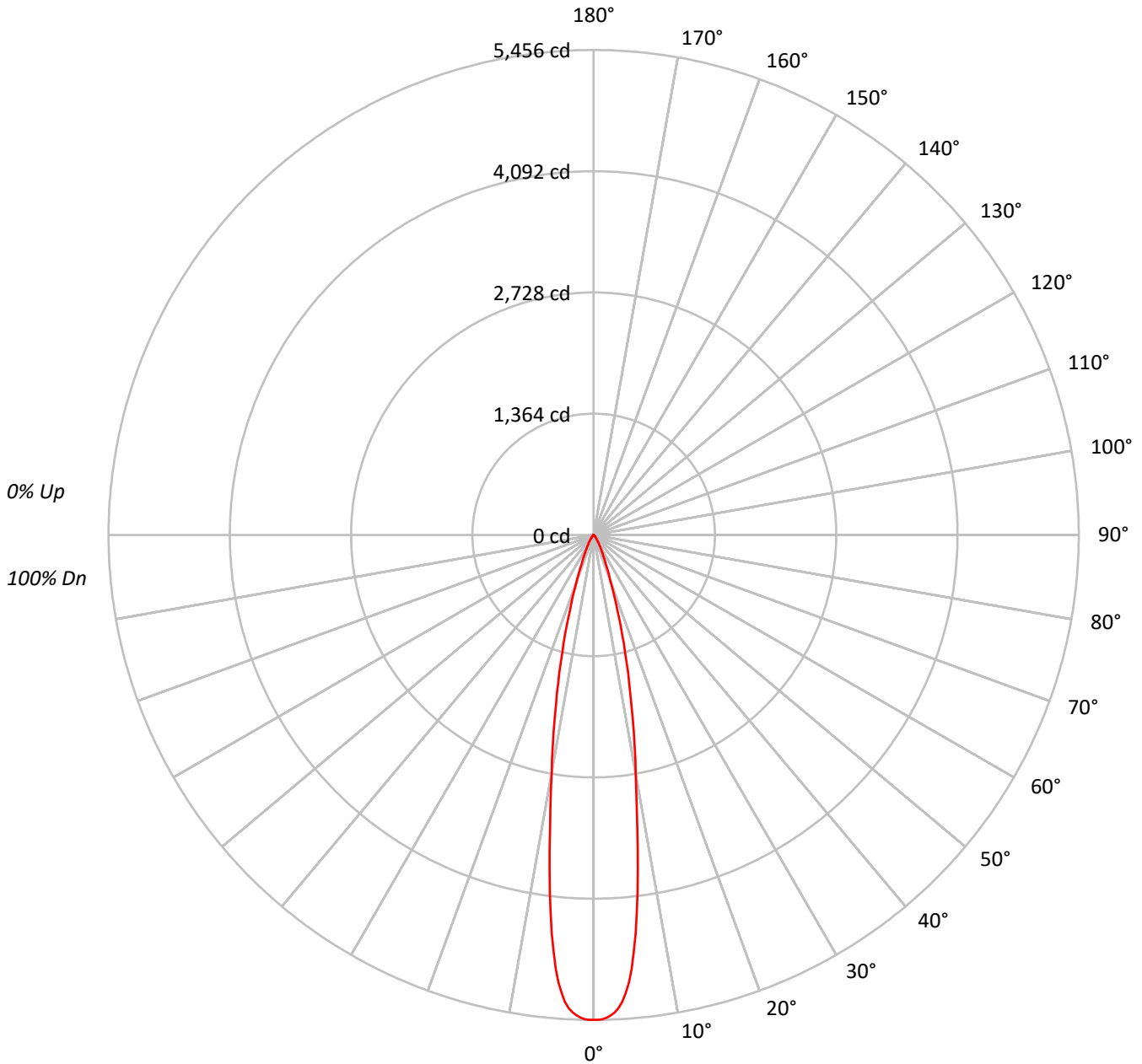


Downlight



TEST NUMBER: P741956
CATALOG NUMBER: LD4D10D010-EU4DR200210IC9027-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P741956

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9027-4LBCSSQMW

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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 596094 |
| 5° | 537785 |
| 10° | 301840 |
| 15° | 153429 |
| 20° | 64962 |
| 25° | 29982 |
| 30° | 15871 |
| 35° | 8550 |
| 40° | 4578 |
| 45° | 2704 |
| 50° | 1564 |
| 55° | 838 |
| 60° | 524 |
| 65° | 388 |
| 70° | 160 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2704 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 388.4 | 40.5 |
| 10°-20° | 382.5 | 39.9 |
| 20°-30° | 124.9 | 13.0 |
| 30°-40° | 42.5 | 4.4 |
| 40°-50° | 14.3 | 1.5 |
| 50°-60° | 4.3 | 0.4 |
| 60°-70° | 1.4 | 0.2 |
| 70°-80° | 0.1 | 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° | 895.9 | 93.5 |
| 0°-40° | 938.4 | 97.9 |
| 0°-60° | 957.0 | 99.8 |
| 0°-90° | 958.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 958.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5456 | |
| 5° | 4903 | 388 |
| 15° | 1356 | 382 |
| 25° | 249 | 125 |
| 35° | 64 | 43 |
| 45° | 18 | 14 |
| 55° | 4 | 4 |
| 65° | 2 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 5455.7 |
| 0.5° | 5455.7 |
| 1° | 5448.9 |
| 1.5° | 5435.3 |
| 2° | 5410.5 |
| 2.5° | 5377.5 |
| 3° | 5330.9 |
| 3.5° | 5265.8 |
| 4° | 5169.1 |
| 4.5° | 5051.5 |
| 5° | 4903.3 |
| 5.5° | 4708.5 |
| 6° | 4508.9 |
| 6.5° | 4280.0 |
| 7° | 4056.1 |
| 7.5° | 3793.7 |
| 8° | 3559.6 |
| 8.5° | 3324.0 |
| 9° | 3106.3 |
| 9.5° | 2906.6 |
| 10° | 2720.6 |
| 12.5° | 1953.5 |
| 15° | 1356.4 |
| 17.5° | 886.1 |
| 20° | 558.7 |
| 22.5° | 361.9 |
| 25° | 248.7 |
| 27.5° | 174.9 |
| 30° | 125.8 |
| 32.5° | 90.4 |
| 35° | 64.1 |
| 37.5° | 44.7 |
| 40° | 32.1 |
| 42.5° | 23.3 |
| 45° | 17.5 |
| 47.5° | 13.6 |
| 50° | 9.2 |
| 52.5° | 5.8 |
| 55° | 4.4 |
| 57.5° | 3.4 |
| 60° | 2.4 |
| 62.5° | 1.9 |
| 65° | 1.5 |



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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

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Scaled Data Report



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Scaled Data Report



— 0°-180°

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Scaled Data Report



| | | |
|-------|--|-----|
| 67.5° | | 1.0 |
| 70° | | 0.5 |

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)