

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: P739535

Luminaire Tested: LD4D02D010-EU4DR600210IC9024-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P739535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR600210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 274.1 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.84
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



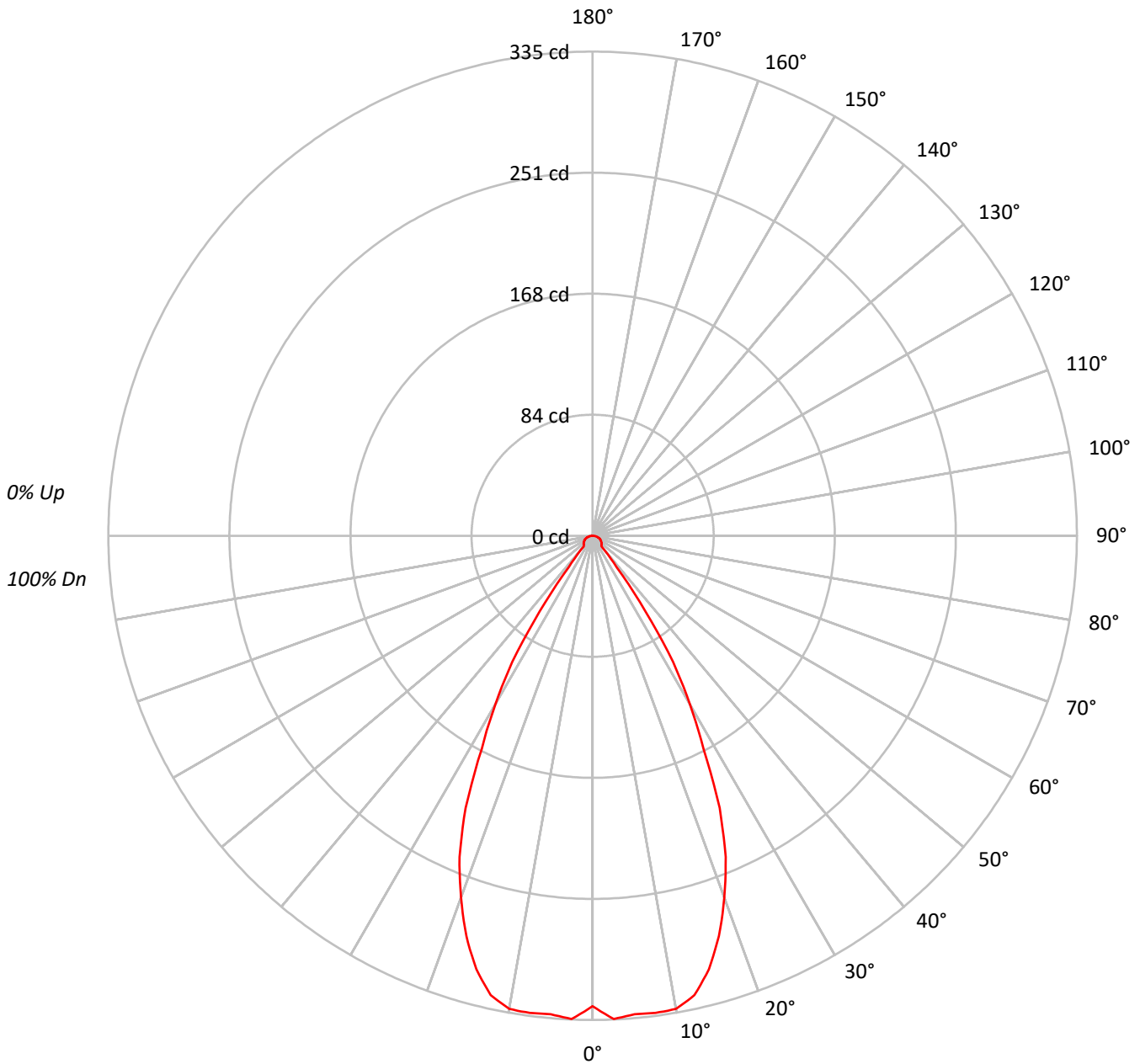
Downlight



TEST NUMBER: P739535

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Luminous Intensity Polar Plot





TEST NUMBER: P739535

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 | 93 | 93 | 93 |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 | 86 | 86 | 86 |
| 3 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | 80 | 80 | 80 |
| 4 | 97 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | 75 | 75 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 | 70 | 70 | 70 |
| 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | 66 | 66 | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 | 62 | 62 | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 59 | 59 | 59 | 59 |
| 9 | 77 | 67 | 61 | 57 | 75 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 55 | 55 | 55 | 55 |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | 53 | 53 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 35564 |
| 5° | 36446 |
| 10° | 36879 |
| 15° | 35134 |
| 20° | 30975 |
| 25° | 25052 |
| 30° | 16956 |
| 35° | 8496 |
| 40° | 1384 |
| 45° | 1344 |
| 50° | 1377 |
| 55° | 1391 |
| 60° | 1442 |
| 65° | 1474 |
| 70° | 1501 |
| 75° | 1520 |
| 80° | 1447 |
| 85° | 1254 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 1520 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.8 | 11.6 |
| 10°-20° | 85.9 | 31.3 |
| 20°-30° | 92.4 | 33.7 |
| 30°-40° | 40.2 | 14.7 |
| 40°-50° | 6.7 | 2.5 |
| 50°-60° | 6.5 | 2.4 |
| 60°-70° | 5.6 | 2.0 |
| 70°-80° | 3.7 | 1.4 |
| 80°-90° | 1.1 | 0.4 |
| 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° | 210.1 | 76.7 |
| 0°-40° | 250.3 | 91.3 |
| 0°-60° | 263.6 | 96.2 |
| 0°-90° | 274.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 274.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 326 | |
| 5° | 332 | 32 |
| 15° | 311 | 86 |
| 25° | 208 | 92 |
| 35° | 64 | 40 |
| 45° | 9 | 7 |
| 55° | 7 | 7 |
| 65° | 6 | 6 |
| 75° | 4 | 4 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 325.5 |
| 2.5° | 334.7 |
| 5° | 332.3 |
| 7.5° | 333.0 |
| 10° | 332.4 |
| 12.5° | 325.6 |
| 15° | 310.6 |
| 17.5° | 290.5 |
| 20° | 266.4 |
| 22.5° | 240.6 |
| 25° | 207.8 |
| 27.5° | 166.2 |
| 30° | 134.4 |
| 32.5° | 103.5 |
| 35° | 63.7 |
| 37.5° | 27.2 |
| 40° | 9.7 |
| 42.5° | 8.9 |
| 45° | 8.7 |
| 47.5° | 8.4 |
| 50° | 8.1 |
| 52.5° | 7.7 |
| 55° | 7.3 |
| 57.5° | 6.9 |
| 60° | 6.6 |
| 62.5° | 6.1 |
| 65° | 5.7 |
| 67.5° | 5.2 |
| 70° | 4.7 |
| 72.5° | 4.1 |
| 75° | 3.6 |
| 77.5° | 3.0 |
| 80° | 2.3 |
| 82.5° | 1.7 |
| 85° | 1.0 |
| 87.5° | 0.3 |
| 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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