

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: P739074

Luminaire Tested: LD4D02D010-EU4DR300210IC9027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739074
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: LD4D02D010-EU4DR300210IC9027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 294.0 lumens
Efficiency: N/A
Efficacy: 57.7 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): 5.1
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

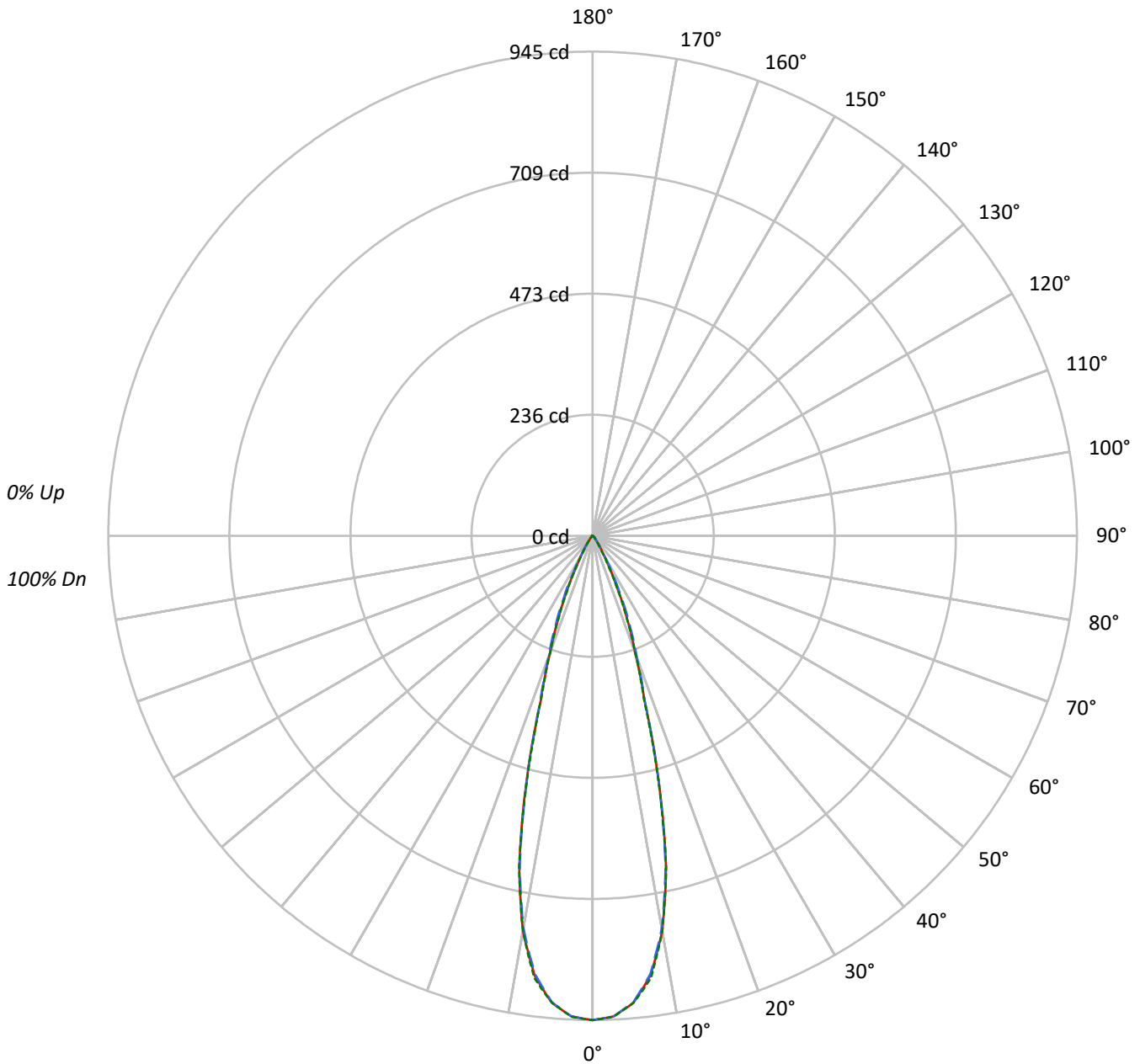


Downlight



TEST NUMBER: P739074
CATALOG NUMBER: LD4D02D010-EU4DR300210IC9027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739074

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9027-4LBDP1MW

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 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 72364 | 72364 | 72364 |
| 5° | 70289 | 70205 | 70289 |
| 10° | 60881 | 60454 | 60866 |
| 15° | 39725 | 39511 | 39313 |
| 20° | 19753 | 20494 | 19729 |
| 25° | 9949 | 11224 | 9746 |
| 30° | 3986 | 4340 | 3465 |
| 35° | 1850 | 1775 | 1486 |
| 40° | 799 | 889 | 749 |
| 45° | 563 | 704 | 574 |
| 50° | 191 | 512 | 202 |
| 55° | 120 | 214 | 120 |
| 60° | 77 | 92 | 77 |
| 65° | 54 | 54 | 54 |
| 70° | 22 | 22 | 22 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 704 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.1 | 28.3 |
| 10°-20° | 133.9 | 45.5 |
| 20°-30° | 57.9 | 19.7 |
| 30°-40° | 13.2 | 4.5 |
| 40°-50° | 4.5 | 1.5 |
| 50°-60° | 1.1 | 0.4 |
| 60°-70° | 0.3 | 0.1 |
| 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° | 274.9 | 93.5 |
| 0°-40° | 288.1 | 98.0 |
| 0°-60° | 293.7 | 99.9 |
| 0°-90° | 294.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 294.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 945 | 945 | 945 | 945 | 945 | |
| 5° | 915 | 914 | 914 | 916 | 915 | 83 |
| 15° | 501 | 495 | 499 | 497 | 496 | 134 |
| 25° | 118 | 122 | 133 | 119 | 115 | 56 |
| 35° | 20 | 20 | 19 | 19 | 16 | 13 |
| 45° | 5 | 6 | 6 | 6 | 5 | 4 |
| 55° | 1 | 1 | 2 | 1 | 1 | 1 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 945.4 | 945.4 | 945.4 | 945.4 | 945.4 |
| 2.5° | 939.2 | 938.5 | 938.9 | 939.4 | 939.5 |
| 5° | 914.8 | 913.9 | 913.7 | 915.6 | 914.8 |
| 7.5° | 865.6 | 864.4 | 862.5 | 866.8 | 870.8 |
| 10° | 783.3 | 781.9 | 777.8 | 779.8 | 783.1 |
| 12.5° | 661.7 | 657.2 | 657.1 | 663.6 | 662.7 |
| 15° | 501.3 | 495.2 | 498.6 | 496.9 | 496.1 |
| 17.5° | 337.1 | 334.8 | 339.2 | 337.9 | 332.1 |
| 20° | 242.5 | 243.1 | 251.6 | 247.3 | 242.2 |
| 22.5° | 176.9 | 179.1 | 189.2 | 178.2 | 174.2 |
| 25° | 117.8 | 122.3 | 132.9 | 119.2 | 115.4 |
| 27.5° | 72.5 | 74.5 | 85.2 | 71.5 | 69.5 |
| 30° | 45.1 | 44.1 | 49.1 | 42.2 | 39.2 |
| 32.5° | 29.6 | 28.2 | 29.9 | 26.8 | 24.5 |
| 35° | 19.8 | 20.2 | 19.0 | 18.8 | 15.9 |
| 37.5° | 12.3 | 14.2 | 12.5 | 13.3 | 10.2 |
| 40° | 8.0 | 10.3 | 8.9 | 9.8 | 7.5 |
| 42.5° | 6.5 | 8.0 | 7.3 | 7.7 | 6.7 |
| 45° | 5.2 | 6.5 | 6.5 | 6.5 | 5.3 |
| 47.5° | 2.9 | 4.3 | 5.5 | 4.4 | 3.0 |
| 50° | 1.6 | 2.2 | 4.3 | 2.3 | 1.7 |
| 52.5° | 1.1 | 1.3 | 2.9 | 1.3 | 1.1 |
| 55° | 0.9 | 0.9 | 1.6 | 0.9 | 0.9 |
| 57.5° | 0.6 | 0.7 | 0.9 | 0.7 | 0.6 |
| 60° | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 |
| 62.5° | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| 65° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 67.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| 70° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 72.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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