

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: P742885

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR1515309024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1183.2 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 15.8
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

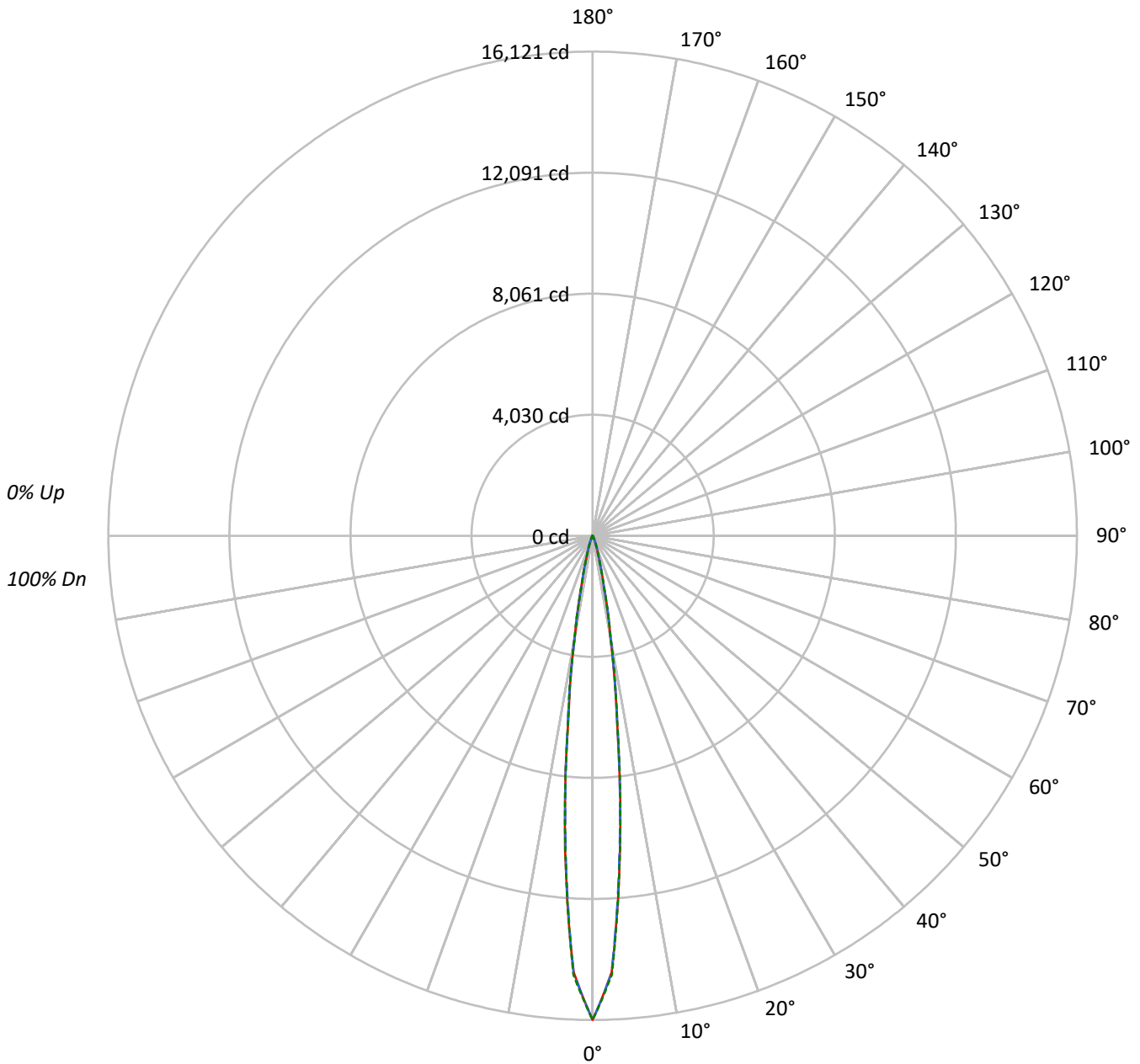


Downlight



TEST NUMBER: P742885
CATALOG NUMBER: LD4D15D010-EU4DR1515309024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P742885

CATALOG NUMBER: LD4D15D010-EU4DR1515309024-4LBS1MW

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 | | | | | | | | | | | | | | | | | | | |
| 1 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 88 | 87 | | | | | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1813934 | 1813934 | 1813934 |
| 5° | 1065955 | 1052154 | 1060477 |
| 10° | 318132 | 320362 | 325270 |
| 15° | 79135 | 80673 | 78189 |
| 20° | 23680 | 27419 | 24179 |
| 25° | 8343 | 10633 | 8452 |
| 30° | 3063 | 4036 | 3115 |
| 35° | 1540 | 1736 | 1489 |
| 40° | 966 | 1065 | 966 |
| 45° | 714 | 763 | 714 |
| 50° | 570 | 570 | 570 |
| 55° | 473 | 473 | 473 |
| 60° | 386 | 386 | 386 |
| 65° | 293 | 293 | 293 |
| 70° | 249 | 249 | 249 |
| 75° | 151 | 151 | 204 |
| 80° | 110 | 110 | 110 |
| 85° | 58 | 58 | 58 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 763 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 767.4 | 64.9 |
| 10°-20° | 315.6 | 26.7 |
| 20°-30° | 62.7 | 5.3 |
| 30°-40° | 15.6 | 1.3 |
| 40°-50° | 8.2 | 0.7 |
| 50°-60° | 6.1 | 0.5 |
| 60°-70° | 4.3 | 0.4 |
| 70°-80° | 2.4 | 0.2 |
| 80°-90° | 0.8 | 0.1 |
| 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° | 1145.7 | 96.8 |
| 0°-40° | 1161.4 | 98.2 |
| 0°-60° | 1175.7 | 99.4 |
| 0°-90° | 1183.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1183.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16121 | 16121 | 16121 | 16121 | 16121 | |
| 5° | 10489 | 10381 | 10353 | 10424 | 10435 | 766 |
| 15° | 911 | 928 | 929 | 912 | 900 | 312 |
| 25° | 107 | 122 | 136 | 121 | 108 | 56 |
| 35° | 21 | 22 | 24 | 22 | 20 | 14 |
| 45° | 10 | 10 | 11 | 10 | 10 | 8 |
| 55° | 7 | 7 | 7 | 7 | 7 | 6 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 2 | 2 | 2 | 2 | 3 | 2 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 16121.0 | 16121.0 | 16121.0 | 16121.0 | 16121.0 |
| 2.5° | 14541.8 | 14554.1 | 14558.8 | 14573.2 | 14626.4 |
| 5° | 10488.7 | 10380.8 | 10352.9 | 10424.5 | 10434.8 |
| 7.5° | 6213.1 | 6234.9 | 6314.8 | 6332.5 | 6268.4 |
| 10° | 3409.5 | 3437.5 | 3433.4 | 3458.0 | 3486.0 |
| 12.5° | 1743.7 | 1721.8 | 1715.0 | 1743.0 | 1704.1 |
| 15° | 911.1 | 928.1 | 928.8 | 912.4 | 900.2 |
| 17.5° | 490.0 | 509.8 | 542.6 | 515.9 | 475.0 |
| 20° | 289.4 | 307.1 | 335.1 | 313.2 | 295.5 |
| 22.5° | 178.8 | 193.1 | 212.9 | 195.9 | 181.5 |
| 25° | 107.1 | 121.5 | 136.5 | 120.8 | 108.5 |
| 27.5° | 63.5 | 75.8 | 85.3 | 75.1 | 62.8 |
| 30° | 40.9 | 47.8 | 53.9 | 47.1 | 41.6 |
| 32.5° | 28.7 | 31.4 | 34.1 | 31.4 | 28.7 |
| 35° | 21.2 | 22.5 | 23.9 | 22.5 | 20.5 |
| 37.5° | 16.4 | 17.7 | 18.4 | 17.1 | 15.7 |
| 40° | 13.6 | 14.3 | 15.0 | 14.3 | 13.6 |
| 42.5° | 11.6 | 12.3 | 12.3 | 12.3 | 11.6 |
| 45° | 10.2 | 10.2 | 10.9 | 10.2 | 10.2 |
| 47.5° | 8.9 | 8.9 | 9.6 | 8.9 | 8.9 |
| 50° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 52.5° | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 55° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 57.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 60° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 62.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 65° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 67.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 70° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 75° | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 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





— 0°-180° - - 45°-225° - - - - 90°-270°

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