

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: P740867

Luminaire Tested: LD4D08D010-EU4DR150210IC9027-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740867  
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: LD4D08D010-EU4DR150210IC9027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 767.7 lumens  
Efficiency: N/A  
Efficacy: 86.3 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): 8.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



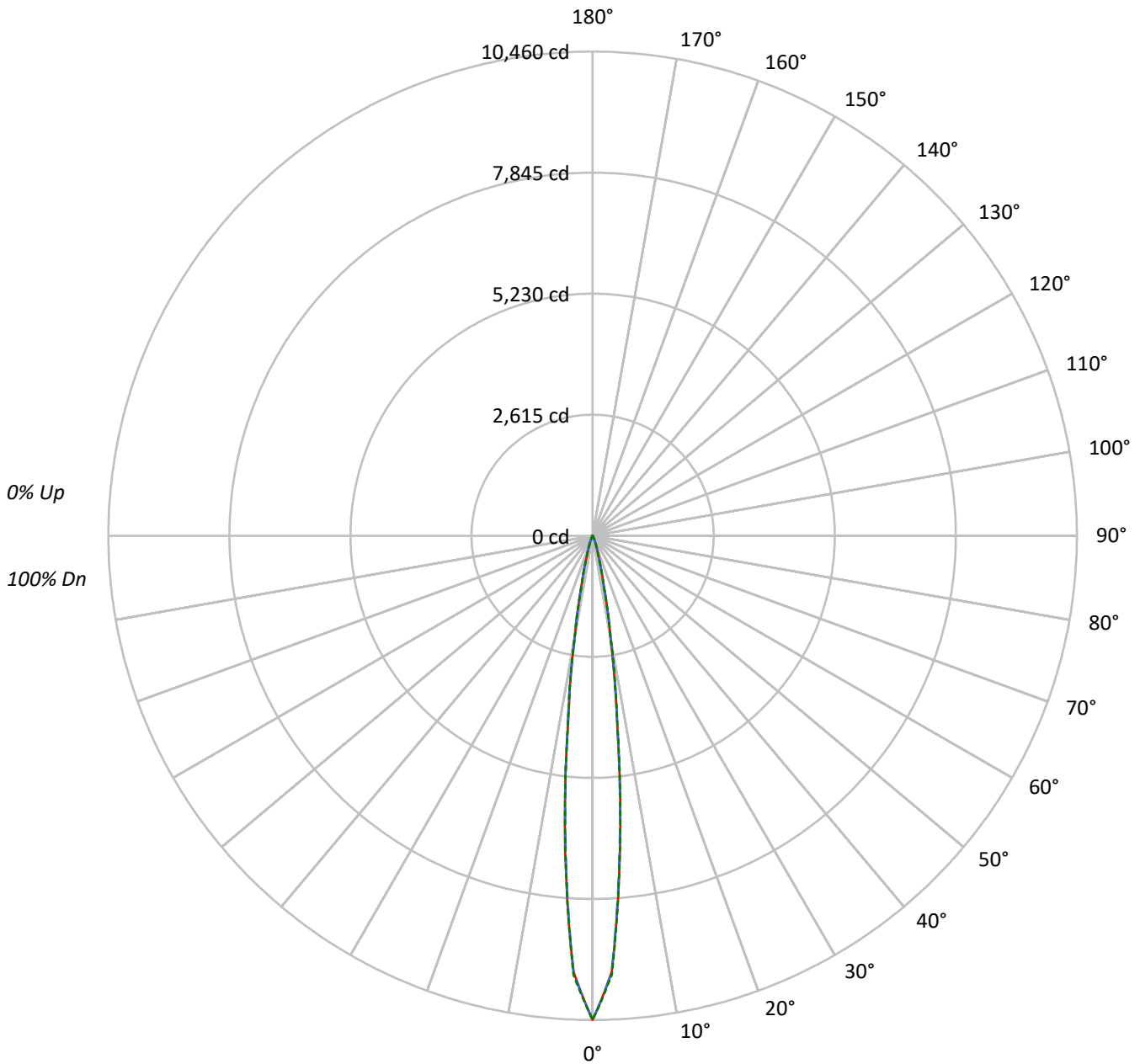
Downlight



TEST NUMBER: P740867

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9027-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P740867

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9027-4LBDP1LI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1176970 | 1176970 | 1176970 |
| 5°  | 691646  | 682682  | 688089  |
| 10° | 206424  | 207871  | 211052  |
| 15° | 51350   | 52349   | 50733   |
| 20° | 15366   | 17788   | 15685   |
| 25° | 5414    | 6902    | 5484    |
| 30° | 1992    | 2621    | 2022    |
| 35° | 995     | 1126    | 966     |
| 40° | 632     | 689     | 632     |
| 45° | 462     | 497     | 462     |
| 50° | 369     | 369     | 369     |
| 55° | 306     | 306     | 306     |
| 60° | 246     | 246     | 246     |
| 65° | 193     | 193     | 193     |
| 70° | 161     | 161     | 161     |
| 75° | 98      | 98      | 136     |
| 80° | 71      | 71      | 71      |
| 85° | 33      | 33      | 33      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 497 cd/sqm



TEST NUMBER: P740867

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9027-4LBDP1LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 497.9  | 64.9      |
| 10°-20°   | 204.8  | 26.7      |
| 20°-30°   | 40.7   | 5.3       |
| 30°-40°   | 10.2   | 1.3       |
| 40°-50°   | 5.3    | 0.7       |
| 50°-60°   | 4.0    | 0.5       |
| 60°-70°   | 2.8    | 0.4       |
| 70°-80°   | 1.6    | 0.2       |
| 80°-90°   | 0.5    | 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°    | 743.4  | 96.8      |
| 0°-40°    | 753.6  | 98.2      |
| 0°-60°    | 762.9  | 99.4      |
| 0°-90°    | 767.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 767.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 10460 | 10460 | 10460 | 10460 | 10460 |      |
| 5°  | 6806  | 6736  | 6717  | 6764  | 6771  | 497  |
| 15° | 591   | 602   | 603   | 592   | 584   | 203  |
| 25° | 70    | 79    | 89    | 78    | 70    | 37   |
| 35° | 14    | 15    | 16    | 15    | 13    | 9    |
| 45° | 7     | 7     | 7     | 7     | 7     | 5    |
| 55° | 4     | 4     | 4     | 4     | 4     | 4    |
| 65° | 3     | 3     | 3     | 3     | 3     | 3    |
| 75° | 1     | 1     | 1     | 1     | 2     | 2    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P740867

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9027-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 10460.1 | 10460.1 | 10460.1 | 10460.1 | 10460.1 |
| 2.5°  | 9435.4  | 9443.4  | 9446.5  | 9455.8  | 9490.3  |
| 5°    | 6805.6  | 6735.6  | 6717.4  | 6763.9  | 6770.6  |
| 7.5°  | 4031.4  | 4045.5  | 4097.3  | 4108.8  | 4067.2  |
| 10°   | 2212.3  | 2230.4  | 2227.8  | 2243.7  | 2261.9  |
| 12.5° | 1131.4  | 1117.2  | 1112.8  | 1130.9  | 1105.7  |
| 15°   | 591.2   | 602.2   | 602.7   | 592.0   | 584.1   |
| 17.5° | 317.9   | 330.8   | 352.0   | 334.8   | 308.2   |
| 20°   | 187.8   | 199.3   | 217.4   | 203.3   | 191.7   |
| 22.5° | 116.0   | 125.3   | 138.2   | 127.1   | 117.8   |
| 25°   | 69.5    | 78.8    | 88.6    | 78.4    | 70.4    |
| 27.5° | 41.2    | 49.2    | 55.4    | 48.7    | 40.7    |
| 30°   | 26.6    | 31.0    | 35.0    | 30.6    | 27.0    |
| 32.5° | 18.6    | 20.4    | 22.1    | 20.4    | 18.6    |
| 35°   | 13.7    | 14.6    | 15.5    | 14.6    | 13.3    |
| 37.5° | 10.6    | 11.5    | 12.0    | 11.1    | 10.2    |
| 40°   | 8.9     | 9.3     | 9.7     | 9.3     | 8.9     |
| 42.5° | 7.5     | 8.0     | 8.0     | 8.0     | 7.5     |
| 45°   | 6.6     | 6.6     | 7.1     | 6.6     | 6.6     |
| 47.5° | 5.8     | 5.8     | 6.2     | 5.8     | 5.8     |
| 50°   | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     |
| 52.5° | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     |
| 55°   | 4.4     | 4.4     | 4.4     | 4.4     | 4.4     |
| 57.5° | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     |
| 60°   | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 62.5° | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     |
| 65°   | 2.7     | 2.7     | 2.7     | 2.7     | 2.7     |
| 67.5° | 2.7     | 2.7     | 2.7     | 2.7     | 2.7     |
| 70°   | 2.2     | 2.2     | 2.2     | 2.2     | 2.2     |
| 72.5° | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     |
| 75°   | 1.3     | 1.3     | 1.3     | 1.3     | 1.8     |
| 77.5° | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     |
| 80°   | 0.9     | 0.9     | 0.9     | 0.9     | 0.9     |
| 82.5° | 0.9     | 0.9     | 0.9     | 0.9     | 0.9     |
| 85°   | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     |
| 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

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

Scaled Data Report







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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)