

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: P742860

Luminaire Tested: LD4D15D010-EU4DR1015209040-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D15D010-EU4DR1015209040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 10° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1259.6 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
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



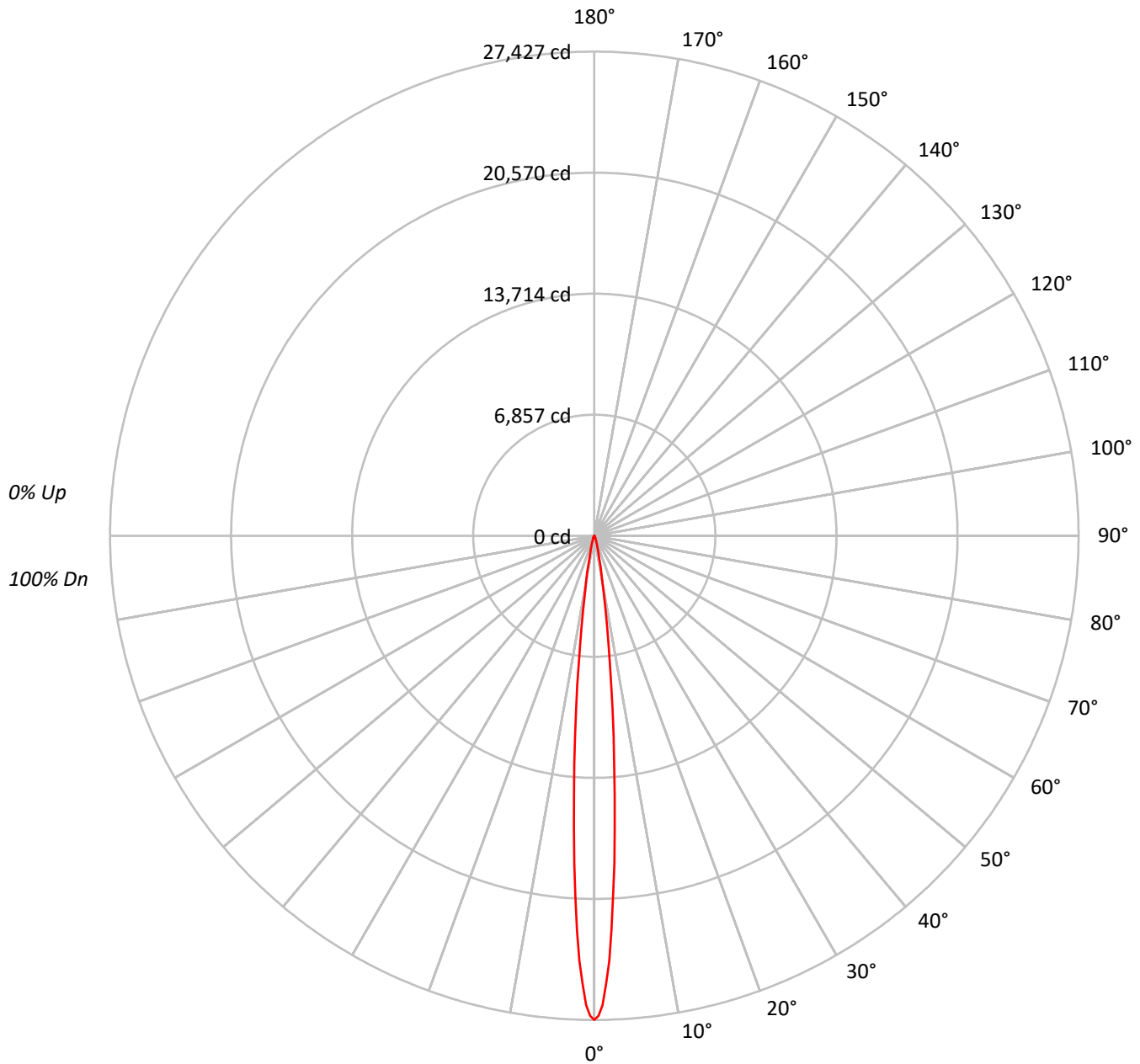
Downlight



TEST NUMBER: P742860

CATALOG NUMBER: LD4D15D010-EU4DR1015209040-4LBSQW1B

### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 113 | 111 | 114 | 112 | 111 | 109 | 108 | 107 | 106 |  | 104 | 104 | 103 |  | 101 |
| 2   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 105 | 104 | 102 |  | 103 | 101 | 100 |  | 100 |
| 3   | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  |  | 101 | 99  | 98  |  | 99  |
| 4   | 108 | 104 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 99  | 97  |  | 99  | 97  | 96  |  | 98  |
| 5   | 106 | 102 | 99  | 96  | 105 | 101 | 98  | 96  | 99  | 97  | 95  |  | 98  | 96  | 94  |  | 97  |
| 6   | 104 | 100 | 96  | 94  | 103 | 99  | 96  | 94  | 98  | 95  | 93  |  | 97  | 94  | 93  |  | 96  |
| 7   | 103 | 98  | 95  | 93  | 102 | 97  | 94  | 92  | 96  | 94  | 92  |  | 95  | 93  | 92  |  | 95  |
| 8   | 101 | 96  | 93  | 91  | 100 | 96  | 93  | 91  | 95  | 92  | 91  |  | 94  | 92  | 90  |  | 93  |
| 9   | 100 | 95  | 92  | 90  | 99  | 94  | 92  | 90  | 94  | 91  | 90  |  | 93  | 91  | 89  |  | 93  |
| 10  | 98  | 94  | 91  | 89  | 98  | 93  | 91  | 89  | 93  | 90  | 88  |  | 92  | 90  | 88  |  | 92  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2996717 |
| 5°  | 1421033 |
| 10° | 291434  |
| 15° | 80006   |
| 20° | 32242   |
| 25° | 17276   |
| 30° | 10219   |
| 35° | 6656    |
| 40° | 4450    |
| 45° | 2889    |
| 50° | 1581    |
| 55° | 1181    |
| 60° | 677     |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2889 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 895.7  | 71.1      |
| 10°-20°   | 242.4  | 19.2      |
| 20°-30°   | 69.4   | 5.5       |
| 30°-40°   | 31.7   | 2.5       |
| 40°-50°   | 14.5   | 1.2       |
| 50°-60°   | 4.8    | 0.4       |
| 60°-70°   | 1.1    | 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°    | 1207.5 | 95.9      |
| 0°-40°    | 1239.1 | 98.4      |
| 0°-60°    | 1258.5 | 99.9      |
| 0°-90°    | 1259.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1259.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 27427 |      |
| 5°  | 12956 | 896  |
| 15° | 707   | 242  |
| 25° | 143   | 69   |
| 35° | 50    | 32   |
| 45° | 19    | 15   |
| 55° | 6     | 5    |
| 65° | 0     | 1    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 27427.2 |
| 0.5°  | 27190.4 |
| 1°    | 26582.8 |
| 1.5°  | 25411.2 |
| 2°    | 24099.3 |
| 2.5°  | 22366.8 |
| 3°    | 20441.1 |
| 3.5°  | 18577.7 |
| 4°    | 16567.9 |
| 4.5°  | 14717.0 |
| 5°    | 12956.4 |
| 5.5°  | 11361.0 |
| 6°    | 9840.4  |
| 6.5°  | 8503.6  |
| 7°    | 7244.8  |
| 7.5°  | 6169.7  |
| 8°    | 5216.2  |
| 8.5°  | 4381.1  |
| 9°    | 3658.2  |
| 9.5°  | 3106.7  |
| 10°   | 2626.8  |
| 12.5° | 1252.6  |
| 15°   | 707.3   |
| 17.5° | 430.0   |
| 20°   | 277.3   |
| 22.5° | 193.2   |
| 25°   | 143.3   |
| 27.5° | 105.9   |
| 30°   | 81.0    |
| 32.5° | 62.3    |
| 35°   | 49.9    |
| 37.5° | 37.4    |
| 40°   | 31.2    |
| 42.5° | 24.9    |
| 45°   | 18.7    |
| 47.5° | 12.5    |
| 50°   | 9.3     |
| 52.5° | 6.2     |
| 55°   | 6.2     |
| 57.5° | 3.1     |
| 60°   | 3.1     |
| 62.5° | 3.1     |
| 65°   | 0.0     |



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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 |



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— 0°-180°







|       |     |
|-------|-----|
| 67.5° | 0.0 |
| 70°   | 0.0 |



(END OF REPORT)