

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: P741582

Luminaire Tested: LD4D08D010-EU4DR600210IC9030-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741582  
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: LD4D08D010-EU4DR600210IC9030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 787.1 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
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



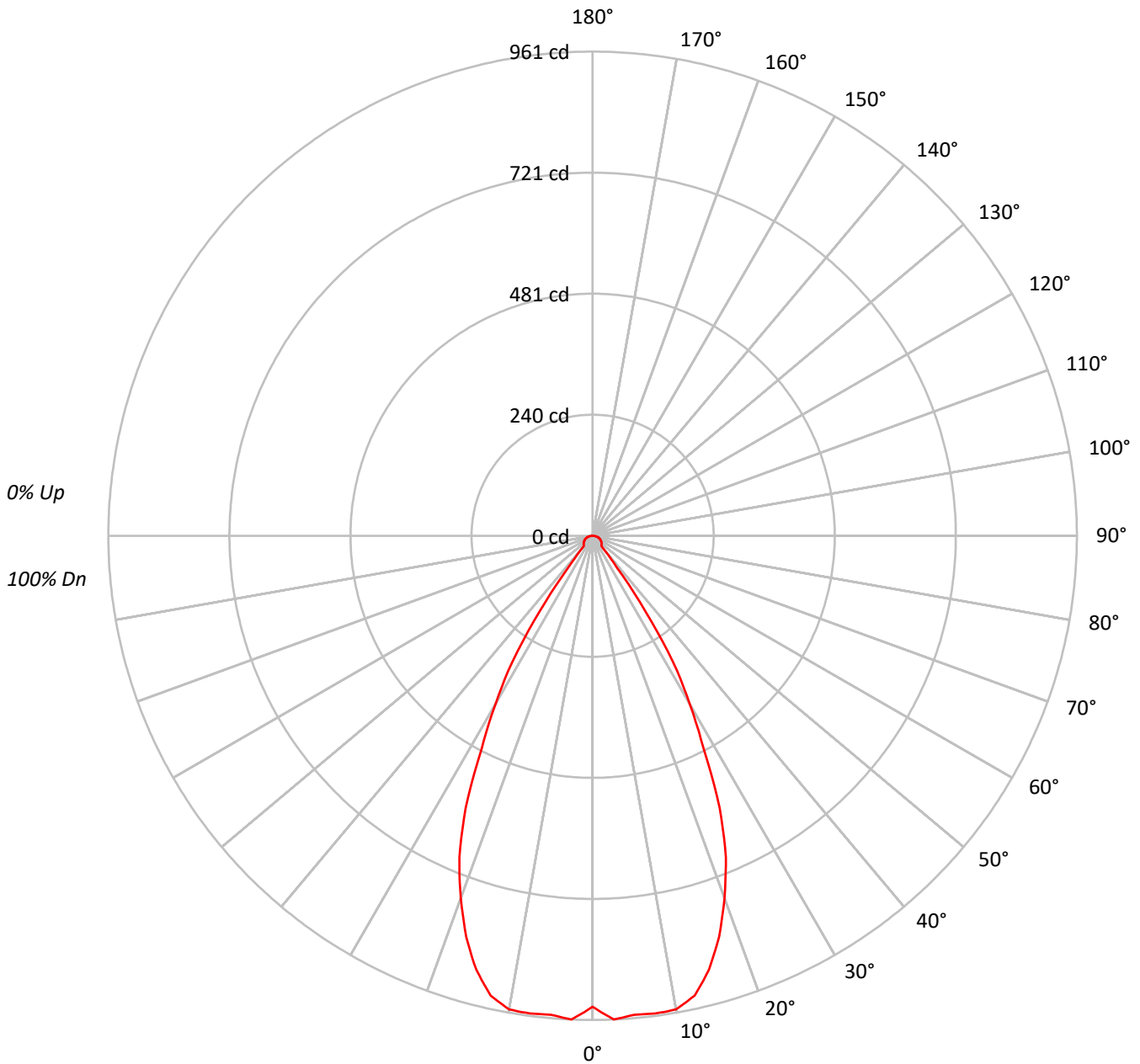
Downlight



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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 102137 |
| 5°  | 104655 |
| 10° | 105920 |
| 15° | 100899 |
| 20° | 88960  |
| 25° | 71948  |
| 30° | 48674  |
| 35° | 24382  |
| 40° | 3951   |
| 45° | 3863   |
| 50° | 3961   |
| 55° | 4000   |
| 60° | 4130   |
| 65° | 4214   |
| 70° | 4313   |
| 75° | 4348   |
| 80° | 4216   |
| 85° | 3510   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 4348 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.2   | 11.6      |
| 10°-20°   | 246.7  | 31.3      |
| 20°-30°   | 265.5  | 33.7      |
| 30°-40°   | 115.4  | 14.7      |
| 40°-50°   | 19.4   | 2.5       |
| 50°-60°   | 18.8   | 2.4       |
| 60°-70°   | 16.1   | 2.0       |
| 70°-80°   | 10.8   | 1.4       |
| 80°-90°   | 3.3    | 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°    | 603.4  | 76.7      |
| 0°-40°    | 718.8  | 91.3      |
| 0°-60°    | 757.0  | 96.2      |
| 0°-90°    | 787.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 787.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 935 |      |
| 5°  | 954 | 91   |
| 15° | 892 | 247  |
| 25° | 597 | 265  |
| 35° | 183 | 115  |
| 45° | 25  | 19   |
| 55° | 21  | 19   |
| 65° | 16  | 16   |
| 75° | 10  | 11   |
| 85° | 3   | 3    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 934.8 |
| 2.5°  | 961.1 |
| 5°    | 954.2 |
| 7.5°  | 956.4 |
| 10°   | 954.7 |
| 12.5° | 934.9 |
| 15°   | 892.0 |
| 17.5° | 834.3 |
| 20°   | 765.1 |
| 22.5° | 691.0 |
| 25°   | 596.8 |
| 27.5° | 477.4 |
| 30°   | 385.8 |
| 32.5° | 297.3 |
| 35°   | 182.8 |
| 37.5° | 78.2  |
| 40°   | 27.7  |
| 42.5° | 25.6  |
| 45°   | 25.0  |
| 47.5° | 24.2  |
| 50°   | 23.3  |
| 52.5° | 22.1  |
| 55°   | 21.0  |
| 57.5° | 19.9  |
| 60°   | 18.9  |
| 62.5° | 17.6  |
| 65°   | 16.3  |
| 67.5° | 15.0  |
| 70°   | 13.5  |
| 72.5° | 11.9  |
| 75°   | 10.3  |
| 77.5° | 8.5   |
| 80°   | 6.7   |
| 82.5° | 4.8   |
| 85°   | 2.8   |
| 87.5° | 1.0   |
| 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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Scaled Data Report



— 0°-180°

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Scaled Data Report



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