

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: P779266

Luminaire Tested: LER4D08D010-EC4DR350210IC9027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P779266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4D08D010-EC4DR350210IC9027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 764.2 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.9  
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



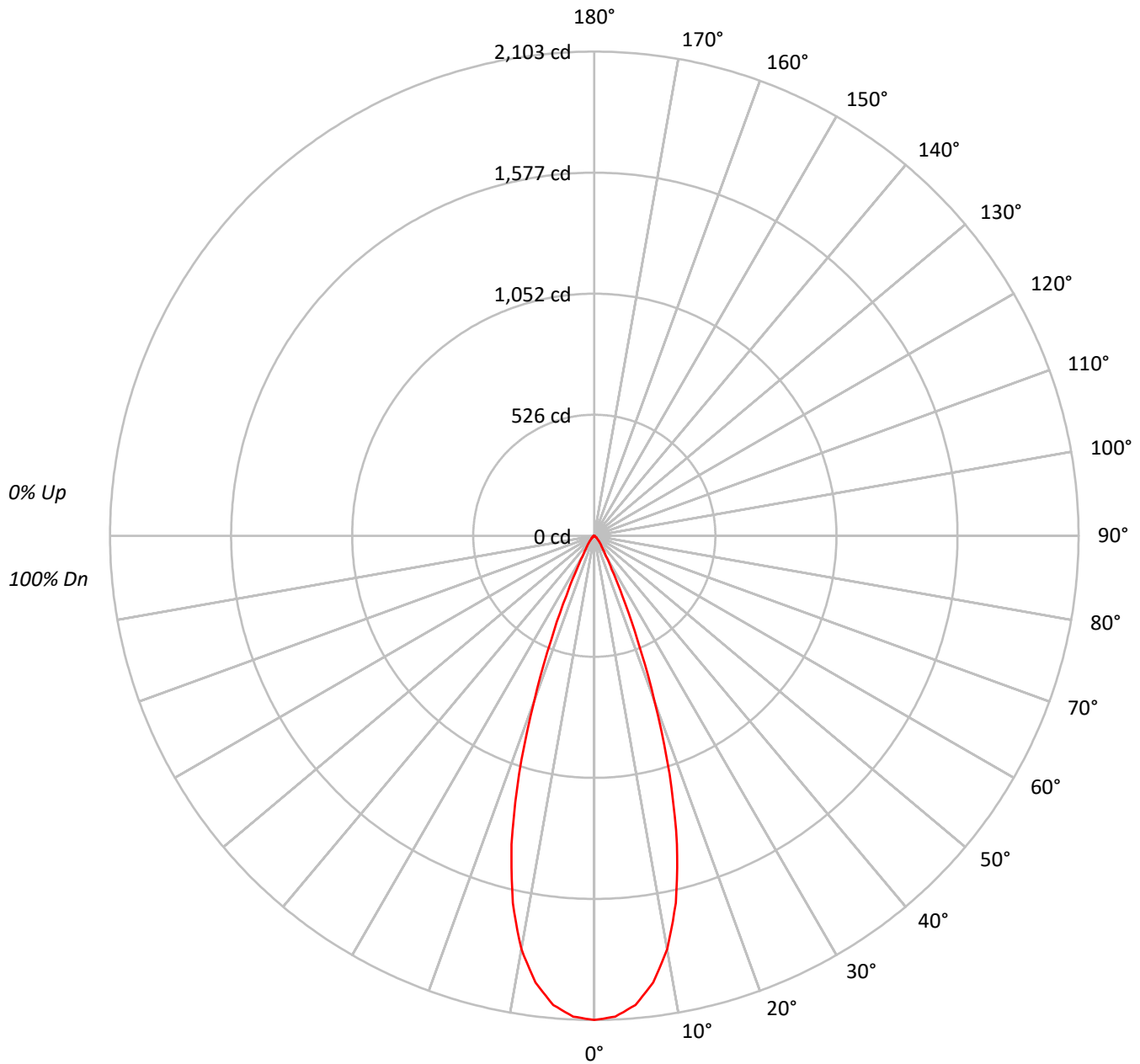
Downlight



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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 |    |    |   |  |  |  |
| 1   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99  | 98  | 98  | 96  |    |    |   |  |  |  |
| 2   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |    |    |   |  |  |  |
| 3   | 106 | 101 | 97  | 94  | 105 | 100 | 96  | 94  | 97  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 89  | 88  |    |    |   |  |  |  |
| 4   | 103 | 97  | 92  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |    |    |   |  |  |  |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 87  | 84  | 90  | 86  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 81  |    |    |   |  |  |  |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 78  |    |    |   |  |  |  |
| 7   | 93  | 85  | 81  | 78  | 91  | 85  | 80  | 77  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 75  |    |    |   |  |  |  |
| 8   | 90  | 82  | 78  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |    |    |   |  |  |  |
| 9   | 87  | 79  | 75  | 72  | 86  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 77  | 73  | 71  | 70  |    |    |   |  |  |  |
| 10  | 84  | 77  | 72  | 69  | 83  | 76  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 69  | 68  |    |    |   |  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 229775 |
| 5°  | 224369 |
| 10° | 202222 |
| 15° | 156947 |
| 20° | 89019  |
| 25° | 34636  |
| 30° | 12919  |
| 35° | 7083   |
| 40° | 4621   |
| 45° | 2812   |
| 50° | 1785   |
| 55° | 1257   |
| 60° | 918    |
| 65° | 491    |
| 70° | 32     |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $45^\circ$

Luminance: 2812 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.1  | 24.6      |
| 10°-20°   | 367.3  | 48.1      |
| 20°-30°   | 149.8  | 19.6      |
| 30°-40°   | 35.9   | 4.7       |
| 40°-50°   | 14.9   | 2.0       |
| 50°-60°   | 6.2    | 0.8       |
| 60°-70°   | 1.9    | 0.3       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 705.3  | 92.3      |
| 0°-40°    | 741.2  | 97.0      |
| 0°-60°    | 762.2  | 99.7      |
| 0°-90°    | 764.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 764.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2103 |      |
| 5°  | 2046 | 188  |
| 15° | 1388 | 367  |
| 25° | 287  | 150  |
| 35° | 53   | 36   |
| 45° | 18   | 15   |
| 55° | 7    | 6    |
| 65° | 2    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2103.0 |
| 2.5°  | 2090.3 |
| 5°    | 2045.7 |
| 7.5°  | 1956.7 |
| 10°   | 1822.7 |
| 12.5° | 1633.9 |
| 15°   | 1387.5 |
| 17.5° | 1086.3 |
| 20°   | 765.6  |
| 22.5° | 488.2  |
| 25°   | 287.3  |
| 27.5° | 162.4  |
| 30°   | 102.4  |
| 32.5° | 71.9   |
| 35°   | 53.1   |
| 37.5° | 41.1   |
| 40°   | 32.4   |
| 42.5° | 25.0   |
| 45°   | 18.2   |
| 47.5° | 13.6   |
| 50°   | 10.5   |
| 52.5° | 8.4    |
| 55°   | 6.6    |
| 57.5° | 5.4    |
| 60°   | 4.2    |
| 62.5° | 3.1    |
| 65°   | 1.9    |
| 67.5° | 0.7    |
| 70°   | 0.1    |
| 72.5° | 0.1    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.1    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)