

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: P751317

Luminaire Tested: LD4D60D010-EU4DR7055659035-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D60D010-EU4DR7055659035-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6783.4 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.4  
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

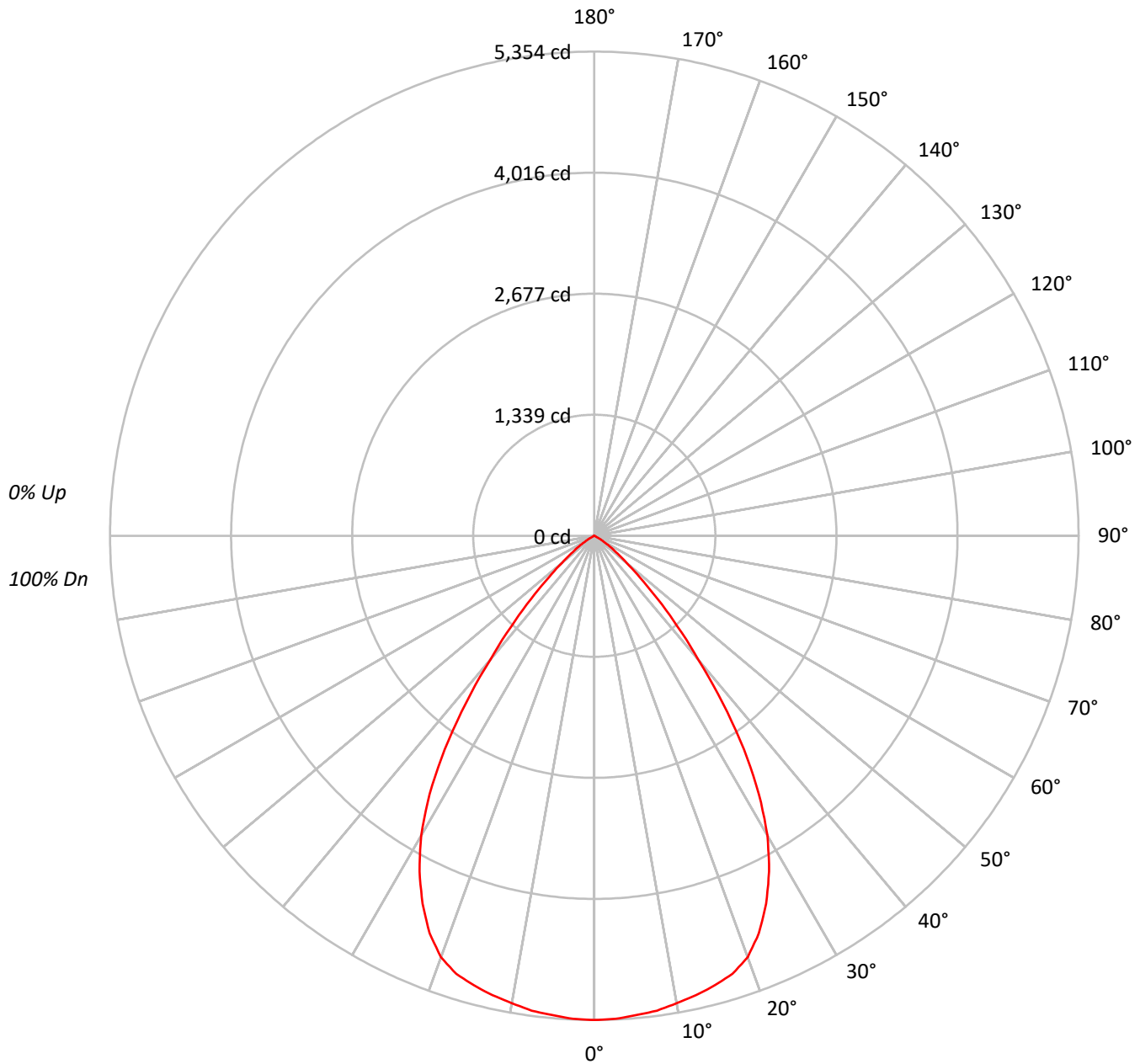


Downlight

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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  |     |  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 103 |  | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 95  | 94  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 92  |  | 97  | 93  | 90  |  | 94  | 91  | 88  |  | 91  | 89  | 87  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  |  | 90  | 85  | 82  |  | 87  | 84  | 81  |  | 85  | 82  | 79  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  |  | 83  | 78  | 75  |  | 81  | 77  | 74  |  | 79  | 76  | 73  |
| 5   | 89  | 80  | 74  | 69  | 88  | 79  | 73  | 69  |  | 78  | 72  | 68  |  | 76  | 71  | 68  |  | 74  | 70  | 67  |
| 6   | 84  | 75  | 68  | 63  | 83  | 74  | 68  | 63  |  | 72  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 62  |
| 7   | 80  | 69  | 63  | 58  | 78  | 69  | 62  | 58  |  | 67  | 62  | 58  |  | 66  | 61  | 57  |  | 65  | 61  | 57  |
| 8   | 75  | 65  | 58  | 54  | 74  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 62  | 57  | 53  |  | 61  | 56  | 53  |
| 9   | 71  | 61  | 54  | 50  | 70  | 60  | 54  | 50  |  | 59  | 53  | 50  |  | 58  | 53  | 49  |  | 57  | 53  | 49  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 46  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 584982 |
| 5°  | 583520 |
| 10° | 582257 |
| 15° | 582090 |
| 20° | 576399 |
| 25° | 541453 |
| 30° | 482714 |
| 35° | 384863 |
| 40° | 255550 |
| 45° | 152787 |
| 50° | 79210  |
| 55° | 41641  |
| 60° | 14728  |
| 65° | 259    |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 152787 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 506.0  | 7.5       |
| 10°-20°   | 1451.1 | 21.4      |
| 20°-30°   | 2047.1 | 30.2      |
| 30°-40°   | 1767.2 | 26.1      |
| 40°-50°   | 791.4  | 11.7      |
| 50°-60°   | 207.2  | 3.1       |
| 60°-70°   | 13.5   | 0.2       |
| 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°    | 4004.1 | 59.0      |
| 0°-40°    | 5771.3 | 85.1      |
| 0°-60°    | 6769.9 | 99.8      |
| 0°-90°    | 6783.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6783.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5354 |      |
| 5°  | 5320 | 506  |
| 15° | 5146 | 1451 |
| 25° | 4491 | 2047 |
| 35° | 2885 | 1767 |
| 45° | 989  | 791  |
| 55° | 219  | 207  |
| 65° | 1    | 14   |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 5354.0 |
| 2.5°  | 5348.2 |
| 5°    | 5320.3 |
| 7.5°  | 5297.2 |
| 10°   | 5248.1 |
| 12.5° | 5203.8 |
| 15°   | 5146.0 |
| 17.5° | 5079.6 |
| 20°   | 4957.3 |
| 22.5° | 4756.1 |
| 25°   | 4491.3 |
| 27.5° | 4184.2 |
| 30°   | 3826.1 |
| 32.5° | 3388.0 |
| 35°   | 2885.4 |
| 37.5° | 2330.9 |
| 40°   | 1791.7 |
| 42.5° | 1361.4 |
| 45°   | 988.8  |
| 47.5° | 681.6  |
| 50°   | 466.0  |
| 52.5° | 321.6  |
| 55°   | 218.6  |
| 57.5° | 131.9  |
| 60°   | 67.4   |
| 62.5° | 21.2   |
| 65°   | 1.0    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 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°







(END OF REPORT)