

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P#

Luminaire Tested: **LD4C55D010 EX4C559027 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C55D010 EX4C559027 4LCSQWLI  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

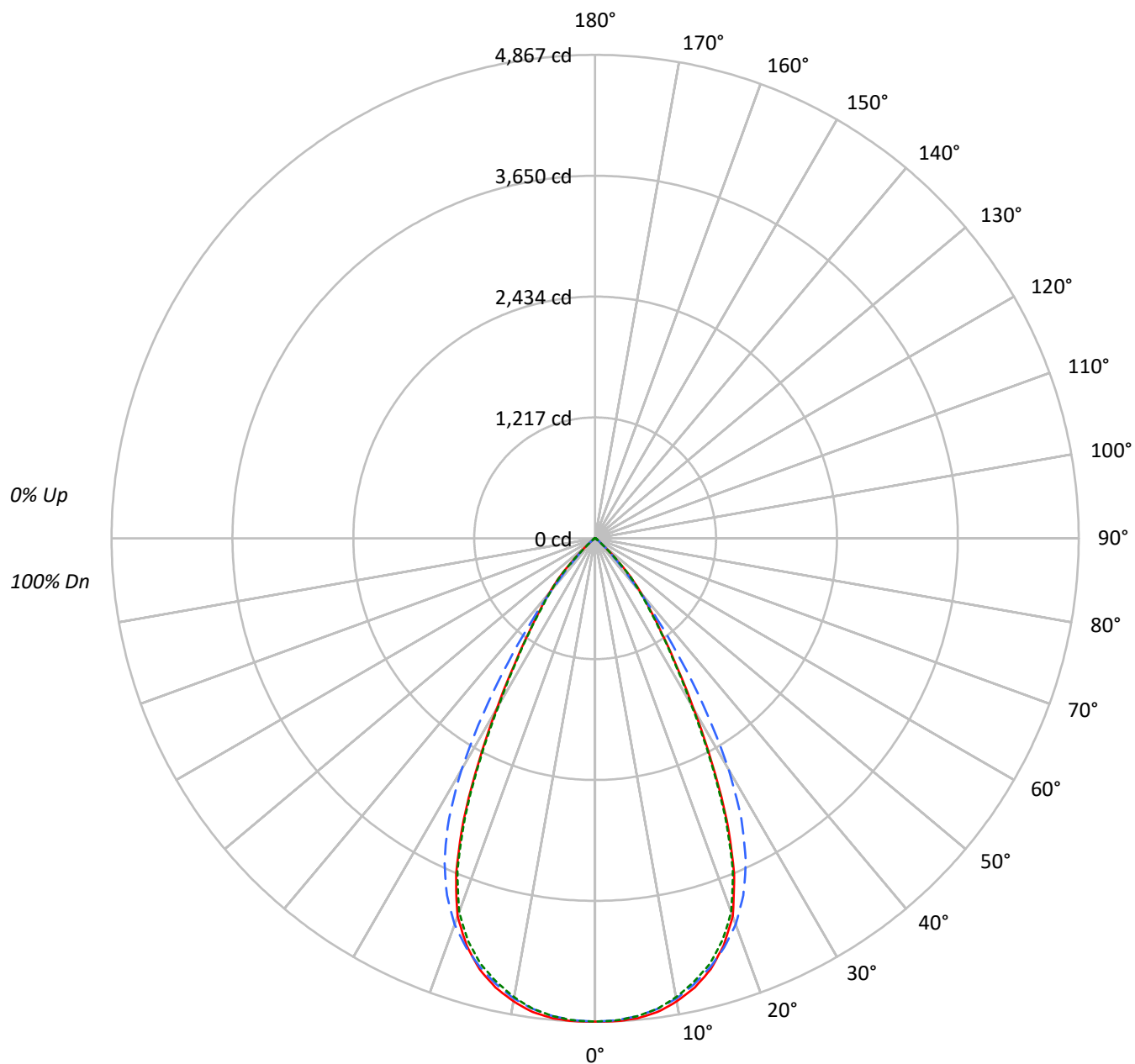
Lumens per Lamp: N/A  
Luminaire Lumens: 4356.0 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
Input Voltage (V):  
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: 25 FT

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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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 |    |    |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 100 | 98  | 97  | 96  | 95  | 94  |    |    |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 93  | 91  | 89  | 87  |    |    |
| 3   | 103 | 96  | 91  | 88  | 101 | 95  | 90  | 87  | 92  | 89  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |    |    |
| 4   | 98  | 90  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |    |    |
| 5   | 93  | 84  | 79  | 74  | 91  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 72  | 71  |    |    |
| 6   | 88  | 79  | 73  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 68  | 76  | 71  | 68  | 74  | 71  | 68  | 66  |    |    |
| 7   | 84  | 75  | 69  | 65  | 82  | 74  | 68  | 64  | 73  | 68  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 62  |    |    |
| 8   | 80  | 70  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 59  | 58  |    |    |
| 9   | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 55  |    |    |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 52  |    |    |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 469486 | 469486 | 469486 |
| 5°  | 469981 | 467822 | 467822 |
| 10° | 463805 | 461072 | 459651 |
| 15° | 448758 | 446640 | 443623 |
| 20° | 415603 | 424669 | 411013 |
| 25° | 334158 | 382002 | 329761 |
| 30° | 220559 | 299519 | 215333 |
| 35° | 137851 | 179855 | 135354 |
| 40° | 89971  | 83346  | 86444  |
| 45° | 43325  | 33254  | 40882  |
| 50° | 10913  | 13255  | 10238  |
| 55° | 6022   | 5450   | 5837   |
| 60° | 4091   | 3454   | 3879   |
| 65° | 2808   | 2557   | 2808   |
| 70° | 2200   | 1890   | 2200   |
| 75° | 1678   | 1678   | 1678   |
| 80° | 1222   | 1889   | 1889   |
| 85° | 1218   | 2436   | 2436   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 457.6  | 10.5      |
| 10°-20°   | 1249.6 | 28.7      |
| 20°-30°   | 1489.2 | 34.2      |
| 30°-40°   | 843.3  | 19.4      |
| 40°-50°   | 260.7  | 6.0       |
| 50°-60°   | 36.2   | 0.8       |
| 60°-70°   | 12.3   | 0.3       |
| 70°-80°   | 4.9    | 0.1       |
| 80°-90°   | 2.0    | 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°    | 3196.5 | 73.4      |
| 0°-40°    | 4039.7 | 92.7      |
| 0°-60°    | 4336.7 | 99.6      |
| 0°-90°    | 4356.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4356.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4866 | 4866  | 4866 | 4866  | 4866 |      |
| 5°  | 4852 | 4841  | 4830 | 4827  | 4830 | 459  |
| 15° | 4492 | 4485  | 4471 | 4453  | 4441 | 1253 |
| 25° | 3139 | 3322  | 3588 | 3328  | 3097 | 1399 |
| 35° | 1170 | 1276  | 1527 | 1280  | 1149 | 762  |
| 45° | 318  | 370   | 244  | 360   | 300  | 262  |
| 55° | 36   | 36    | 32   | 35    | 35   | 35   |
| 65° | 12   | 12    | 11   | 12    | 12   | 13   |
| 75° | 4    | 4     | 4    | 4     | 4    | 5    |
| 85° | 1    | 2     | 2    | 2     | 2    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4865.7 | 4865.7 | 4865.7 | 4865.7 | 4865.7 |
| 2.5°  | 4866.8 | 4859.0 | 4856.8 | 4854.6 | 4859.0 |
| 5°    | 4852.3 | 4841.1 | 4830.0 | 4826.6 | 4830.0 |
| 7.5°  | 4811.0 | 4799.8 | 4780.8 | 4776.3 | 4779.7 |
| 10°   | 4733.8 | 4723.8 | 4705.9 | 4695.8 | 4691.4 |
| 12.5° | 4632.1 | 4615.3 | 4598.6 | 4587.4 | 4576.2 |
| 15°   | 4492.4 | 4484.6 | 4471.2 | 4453.3 | 4441.0 |
| 17.5° | 4299.0 | 4310.2 | 4318.0 | 4282.2 | 4249.8 |
| 20°   | 4047.5 | 4088.9 | 4135.8 | 4063.2 | 4002.8 |
| 22.5° | 3655.2 | 3773.7 | 3893.3 | 3755.8 | 3621.6 |
| 25°   | 3138.7 | 3322.1 | 3588.1 | 3327.7 | 3097.4 |
| 27.5° | 2536.3 | 2768.8 | 3187.9 | 2769.9 | 2502.7 |
| 30°   | 1979.6 | 2218.8 | 2688.3 | 2187.5 | 1932.7 |
| 32.5° | 1520.2 | 1699.0 | 2100.3 | 1672.2 | 1487.8 |
| 35°   | 1170.3 | 1276.5 | 1526.9 | 1279.9 | 1149.1 |
| 37.5° | 909.9  | 963.5  | 1027.2 | 944.5  | 883.1  |
| 40°   | 714.3  | 716.5  | 661.7  | 705.3  | 686.3  |
| 42.5° | 529.8  | 527.6  | 406.9  | 514.2  | 517.5  |
| 45°   | 317.5  | 370.0  | 243.7  | 359.9  | 299.6  |
| 47.5° | 150.9  | 209.0  | 146.4  | 197.8  | 139.7  |
| 50°   | 72.7   | 100.6  | 88.3   | 93.9   | 68.2   |
| 52.5° | 49.2   | 51.4   | 50.3   | 49.2   | 46.9   |
| 55°   | 35.8   | 35.8   | 32.4   | 34.7   | 34.7   |
| 57.5° | 26.8   | 26.8   | 23.5   | 25.7   | 25.7   |
| 60°   | 21.2   | 20.1   | 17.9   | 20.1   | 20.1   |
| 62.5° | 15.6   | 15.6   | 13.4   | 15.6   | 15.6   |
| 65°   | 12.3   | 12.3   | 11.2   | 12.3   | 12.3   |
| 67.5° | 10.1   | 10.1   | 7.8    | 10.1   | 8.9    |
| 70°   | 7.8    | 7.8    | 6.7    | 7.8    | 7.8    |
| 72.5° | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 75°   | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 77.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 80°   | 2.2    | 2.2    | 3.4    | 3.4    | 3.4    |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)