

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: P799387

Luminaire Tested: **LD6C15D010 EU6159035 6LBMDSWWMH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C15D010 EU6159035 6LBMDSWWMH  
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

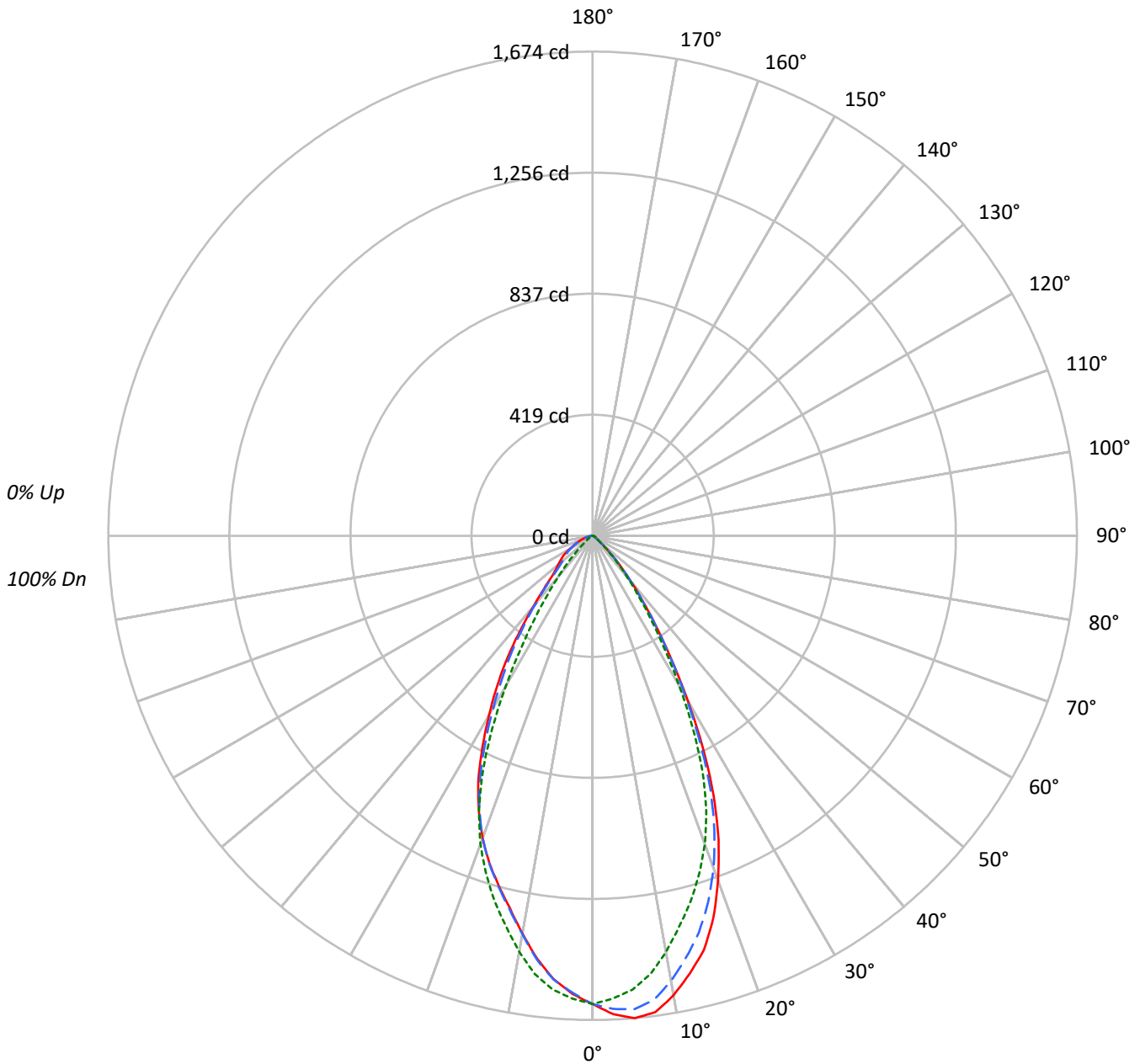
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1394.0 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.8  
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: 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 |  |  |  |  | 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   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  |    |    |    |  |  |  |  |   |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |    |    |    |  |  |  |  |   |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 85  | 83  | 80  | 78  |    |    |    |  |  |  |  |   |
| 4   | 96  | 88  | 82  | 77  | 94  | 87  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 73  |    |    |    |  |  |  |  |   |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |    |  |  |  |  |   |
| 6   | 86  | 77  | 70  | 66  | 84  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 71  | 67  | 64  | 63  |    |    |    |  |  |  |  |   |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  |    |    |    |  |  |  |  |   |
| 8   | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |    |    |    |  |  |  |  |   |
| 9   | 74  | 64  | 58  | 54  | 73  | 63  | 57  | 54  | 62  | 57  | 53  | 61  | 57  | 53  | 61  | 56  | 53  | 52  |    |    |    |  |  |  |  |   |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 58  | 53  | 50  | 49  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 88759 | 88759 | 88759 |
| 5°  | 92136 | 86677 | 84718 |
| 10° | 89778 | 81306 | 77726 |
| 15° | 84200 | 74291 | 71079 |
| 20° | 73921 | 66138 | 64872 |
| 25° | 59786 | 54336 | 56574 |
| 30° | 41563 | 37848 | 45279 |
| 35° | 25618 | 23189 | 34171 |
| 40° | 14499 | 12996 | 22693 |
| 45° | 7039  | 6714  | 15490 |
| 50° | 2678  | 2678  | 13168 |
| 55° | 1472  | 1739  | 12148 |
| 60° | 1074  | 1381  | 9955  |
| 65° | 908   | 1180  | 8159  |
| 70° | 785   | 1010  | 6716  |
| 75° | 741   | 1038  | 5761  |
| 80° | 442   | 884   | 4199  |
| 85° | 440   | 1761  | 3963  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.2  | 10.6      |
| 10°-20°   | 372.5  | 26.7      |
| 20°-30°   | 419.4  | 30.1      |
| 30°-40°   | 259.7  | 18.6      |
| 40°-50°   | 103.4  | 7.4       |
| 50°-60°   | 47.1   | 3.4       |
| 60°-70°   | 27.1   | 1.9       |
| 70°-80°   | 12.9   | 0.9       |
| 80°-90°   | 3.8    | 0.3       |
| 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°    | 940.2  | 67.4      |
| 0°-40°    | 1199.8 | 86.1      |
| 0°-60°    | 1350.3 | 96.9      |
| 0°-90°    | 1394.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1394.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1619 | 1619 | 1619 | 1619 | 1619 |      |
| 5°  | 1674 | 1644 | 1575 | 1541 | 1540 | 158  |
| 15° | 1484 | 1419 | 1309 | 1256 | 1252 | 410  |
| 25° | 988  | 962  | 898  | 921  | 935  | 444  |
| 35° | 383  | 381  | 346  | 483  | 511  | 246  |
| 45° | 91   | 91   | 87   | 189  | 200  | 77   |
| 55° | 15   | 15   | 18   | 112  | 127  | 15   |
| 65° | 7    | 6    | 9    | 62   | 63   | 7    |
| 75° | 4    | 4    | 5    | 26   | 27   | 4    |
| 85° | 1    | 1    | 3    | 6    | 6    | 1    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1619.1 | 1619.1 | 1619.1 | 1619.1 | 1619.1 | 1619.1 | 1619.1 | 1619.1 | 1619.1 |
| 2.5°  | 1656.1 | 1640.8 | 1637.3 | 1624.0 | 1601.7 | 1589.1 | 1581.4 | 1575.8 | 1585.6 |
| 5°    | 1674.3 | 1657.5 | 1643.6 | 1616.3 | 1575.1 | 1552.1 | 1540.9 | 1531.8 | 1539.5 |
| 7.5°  | 1661.0 | 1637.3 | 1618.4 | 1580.7 | 1528.3 | 1492.7 | 1477.3 | 1466.8 | 1473.8 |
| 10°   | 1612.8 | 1584.2 | 1562.5 | 1517.8 | 1460.6 | 1417.9 | 1399.1 | 1389.3 | 1396.3 |
| 12.5° | 1550.0 | 1526.2 | 1493.4 | 1444.5 | 1383.0 | 1338.3 | 1324.3 | 1316.7 | 1319.5 |
| 15°   | 1483.6 | 1455.7 | 1419.3 | 1370.4 | 1309.0 | 1264.3 | 1255.9 | 1251.0 | 1252.4 |
| 17.5° | 1387.2 | 1360.0 | 1328.5 | 1281.0 | 1224.5 | 1188.1 | 1188.1 | 1184.6 | 1186.7 |
| 20°   | 1267.1 | 1252.4 | 1221.7 | 1181.9 | 1133.7 | 1100.8 | 1111.3 | 1107.8 | 1112.0 |
| 22.5° | 1137.2 | 1126.0 | 1099.4 | 1066.6 | 1026.1 | 1000.2 | 1023.3 | 1022.6 | 1028.2 |
| 25°   | 988.4  | 980.0  | 961.8  | 933.9  | 898.3  | 882.2  | 920.6  | 920.6  | 935.3  |
| 27.5° | 824.2  | 815.8  | 803.3  | 779.5  | 750.2  | 745.3  | 801.9  | 808.9  | 824.9  |
| 30°   | 656.6  | 651.0  | 644.0  | 622.4  | 597.9  | 607.0  | 685.2  | 697.1  | 715.3  |
| 32.5° | 507.1  | 503.6  | 501.5  | 482.0  | 460.3  | 490.3  | 579.8  | 595.1  | 613.3  |
| 35°   | 382.8  | 375.1  | 380.7  | 366.0  | 346.5  | 384.2  | 482.7  | 495.9  | 510.6  |
| 37.5° | 282.2  | 276.6  | 281.5  | 271.0  | 253.6  | 294.8  | 387.7  | 396.0  | 405.8  |
| 40°   | 202.6  | 197.7  | 201.9  | 195.6  | 181.6  | 220.0  | 303.8  | 312.9  | 317.1  |
| 42.5° | 143.9  | 135.5  | 139.7  | 134.8  | 127.8  | 165.5  | 238.9  | 247.3  | 248.7  |
| 45°   | 90.8   | 88.0   | 90.8   | 88.0   | 86.6   | 122.9  | 188.6  | 196.3  | 199.8  |
| 47.5° | 55.2   | 51.7   | 51.7   | 50.3   | 51.7   | 90.8   | 155.8  | 166.9  | 172.5  |
| 50°   | 31.4   | 30.0   | 29.3   | 28.6   | 31.4   | 71.2   | 134.8  | 147.4  | 154.4  |
| 52.5° | 21.0   | 20.3   | 20.3   | 19.6   | 23.1   | 60.1   | 121.5  | 132.7  | 139.7  |
| 55°   | 15.4   | 14.7   | 14.7   | 14.7   | 18.2   | 51.7   | 111.8  | 120.8  | 127.1  |
| 57.5° | 11.9   | 11.9   | 11.9   | 11.2   | 15.4   | 44.0   | 99.9   | 104.8  | 109.7  |
| 60°   | 9.8    | 9.1    | 9.1    | 9.1    | 12.6   | 37.7   | 85.9   | 88.0   | 90.8   |
| 62.5° | 7.7    | 7.7    | 7.7    | 7.7    | 10.5   | 33.5   | 74.0   | 74.0   | 75.4   |
| 65°   | 7.0    | 6.3    | 6.3    | 6.3    | 9.1    | 29.3   | 62.2   | 61.5   | 62.9   |
| 67.5° | 5.6    | 5.6    | 5.6    | 5.6    | 7.7    | 25.1   | 51.0   | 50.3   | 51.7   |
| 70°   | 4.9    | 4.9    | 4.9    | 4.9    | 6.3    | 21.0   | 41.2   | 40.5   | 41.9   |
| 72.5° | 4.2    | 4.2    | 4.2    | 4.2    | 5.6    | 17.5   | 32.8   | 32.8   | 33.5   |
| 75°   | 3.5    | 3.5    | 3.5    | 3.5    | 4.9    | 13.3   | 26.5   | 26.5   | 27.2   |
| 77.5° | 2.8    | 2.8    | 2.8    | 2.8    | 3.5    | 10.5   | 20.3   | 19.6   | 19.6   |
| 80°   | 1.4    | 2.1    | 2.1    | 2.1    | 2.8    | 7.7    | 14.7   | 13.3   | 13.3   |
| 82.5° | 0.7    | 1.4    | 1.4    | 1.4    | 2.8    | 5.6    | 9.8    | 9.1    | 9.1    |
| 85°   | 0.7    | 0.7    | 0.7    | 2.1    | 2.8    | 4.2    | 6.3    | 6.3    | 6.3    |
| 87.5° | 0.0    | 0.7    | 1.4    | 2.8    | 3.5    | 3.5    | 4.2    | 3.5    | 3.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)