

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: CORELITE

Report Number: P258442

Luminaire Tested: **D3X-WG-50L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-50L835-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4573.2 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

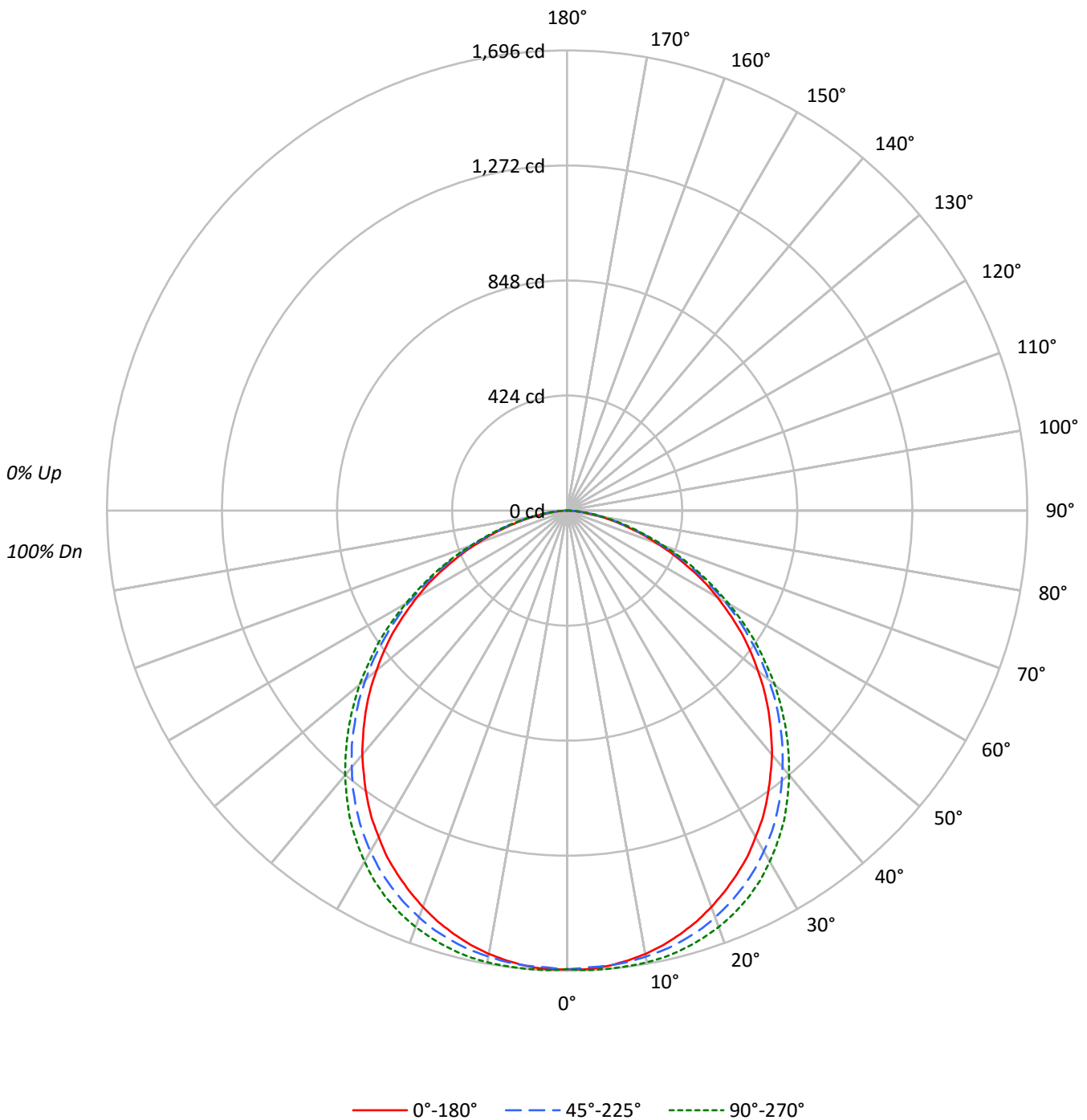
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258442

CATALOG NUMBER: D3X-WG-50L835-LD5-UNV-24-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P258442

CATALOG NUMBER: D3X-WG-50L835-LD5-UNV-24-T1-STD

**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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 47  | 42  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2275 | 2275 | 2275 |
| 5°  | 2277 | 2275 | 2290 |
| 10° | 2267 | 2281 | 2310 |
| 15° | 2250 | 2287 | 2328 |
| 20° | 2226 | 2285 | 2339 |
| 25° | 2196 | 2274 | 2340 |
| 30° | 2158 | 2252 | 2321 |
| 35° | 2115 | 2220 | 2290 |
| 40° | 2063 | 2170 | 2236 |
| 45° | 1998 | 2107 | 2170 |
| 50° | 1920 | 2030 | 2092 |
| 55° | 1837 | 1929 | 1991 |
| 60° | 1719 | 1808 | 1851 |
| 65° | 1570 | 1653 | 1695 |
| 70° | 1379 | 1450 | 1489 |
| 75° | 1167 | 1226 | 1269 |
| 80° | 927  | 1016 | 1041 |
| 85° | 633  | 758  | 733  |



TEST NUMBER: P258442

CATALOG NUMBER: D3X-WG-50L835-LD5-UNV-24-T1-STD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.6  | 3.5       |
| 10°-20°   | 463.8  | 10.1      |
| 20°-30°   | 704.8  | 15.4      |
| 30°-40°   | 841.0  | 18.4      |
| 40°-50°   | 849.4  | 18.6      |
| 50°-60°   | 731.8  | 16.0      |
| 60°-70°   | 510.1  | 11.2      |
| 70°-80°   | 252.8  | 5.5       |
| 80°-90°   | 58.9   | 1.3       |
| 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°    | 1329.2 | 29.1      |
| 0°-40°    | 2170.2 | 47.5      |
| 0°-60°    | 3751.3 | 82.0      |
| 0°-90°    | 4573.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4573.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1691 | 1691  | 1691 | 1691  | 1691 |      |
| 5°  | 1686 | 1684  | 1684 | 1692  | 1696 | 160  |
| 15° | 1615 | 1624  | 1642 | 1663  | 1671 | 456  |
| 25° | 1479 | 1499  | 1532 | 1563  | 1576 | 681  |
| 35° | 1288 | 1309  | 1352 | 1383  | 1394 | 805  |
| 45° | 1050 | 1073  | 1107 | 1134  | 1140 | 809  |
| 55° | 783  | 799   | 822  | 842   | 849  | 698  |
| 65° | 493  | 503   | 519  | 524   | 532  | 490  |
| 75° | 224  | 228   | 236  | 241   | 244  | 242  |
| 85° | 41   | 49    | 49   | 46    | 48   | 52   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P258442

CATALOG NUMBER: D3X-WG-50L835-LD5-UNV-24-T1-STD

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1690.6 | 1690.6 | 1690.6 | 1690.6 | 1690.6 |
| 2.5°  | 1692.3 | 1689.0 | 1685.7 | 1692.3 | 1695.5 |
| 5°    | 1685.7 | 1684.1 | 1684.1 | 1692.3 | 1695.5 |
| 7.5°  | 1674.2 | 1674.2 | 1679.2 | 1690.6 | 1693.9 |
| 10°   | 1659.5 | 1662.8 | 1669.3 | 1685.7 | 1690.6 |
| 12.5° | 1639.8 | 1646.4 | 1657.9 | 1677.5 | 1684.1 |
| 15°   | 1615.3 | 1623.5 | 1641.5 | 1662.8 | 1671.0 |
| 17.5° | 1587.4 | 1598.9 | 1621.8 | 1646.4 | 1654.6 |
| 20°   | 1554.7 | 1569.4 | 1595.6 | 1623.5 | 1633.3 |
| 22.5° | 1518.6 | 1536.6 | 1566.1 | 1595.6 | 1607.1 |
| 25°   | 1479.3 | 1499.0 | 1531.7 | 1562.8 | 1575.9 |
| 27.5° | 1438.3 | 1458.0 | 1494.0 | 1525.2 | 1538.3 |
| 30°   | 1389.2 | 1412.1 | 1449.8 | 1482.6 | 1494.0 |
| 32.5° | 1341.7 | 1364.6 | 1403.9 | 1433.4 | 1444.9 |
| 35°   | 1287.6 | 1308.9 | 1351.5 | 1382.6 | 1394.1 |
| 37.5° | 1230.3 | 1254.9 | 1295.8 | 1323.7 | 1333.5 |
| 40°   | 1174.6 | 1195.9 | 1235.2 | 1263.1 | 1272.9 |
| 42.5° | 1112.3 | 1135.3 | 1174.6 | 1199.2 | 1207.4 |
| 45°   | 1050.1 | 1073.0 | 1107.4 | 1133.6 | 1140.2 |
| 47.5° | 986.2  | 1007.5 | 1041.9 | 1063.2 | 1069.7 |
| 50°   | 917.4  | 937.0  | 969.8  | 991.1  | 999.3  |
| 52.5° | 851.9  | 869.9  | 897.7  | 915.8  | 920.7  |
| 55°   | 783.1  | 799.4  | 822.4  | 842.0  | 848.6  |
| 57.5° | 709.3  | 727.4  | 748.7  | 765.0  | 770.0  |
| 60°   | 638.9  | 653.6  | 671.7  | 686.4  | 688.0  |
| 62.5° | 570.1  | 576.6  | 593.0  | 606.1  | 607.8  |
| 65°   | 493.1  | 502.9  | 519.3  | 524.2  | 532.4  |
| 67.5° | 422.7  | 429.2  | 442.3  | 448.9  | 455.4  |
| 70°   | 350.6  | 355.5  | 368.6  | 376.8  | 378.4  |
| 72.5° | 288.3  | 290.0  | 299.8  | 306.3  | 308.0  |
| 75°   | 224.4  | 227.7  | 235.9  | 240.8  | 244.1  |
| 77.5° | 170.4  | 173.6  | 180.2  | 183.5  | 183.5  |
| 80°   | 119.6  | 124.5  | 131.1  | 132.7  | 134.3  |
| 82.5° | 77.0   | 83.5   | 88.5   | 90.1   | 86.8   |
| 85°   | 41.0   | 49.1   | 49.1   | 45.9   | 47.5   |
| 87.5° | 14.7   | 18.0   | 19.7   | 21.3   | 21.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)