

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: P302236

Luminaire Tested: **RX-WO-50H830-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RX-WO-50H830-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

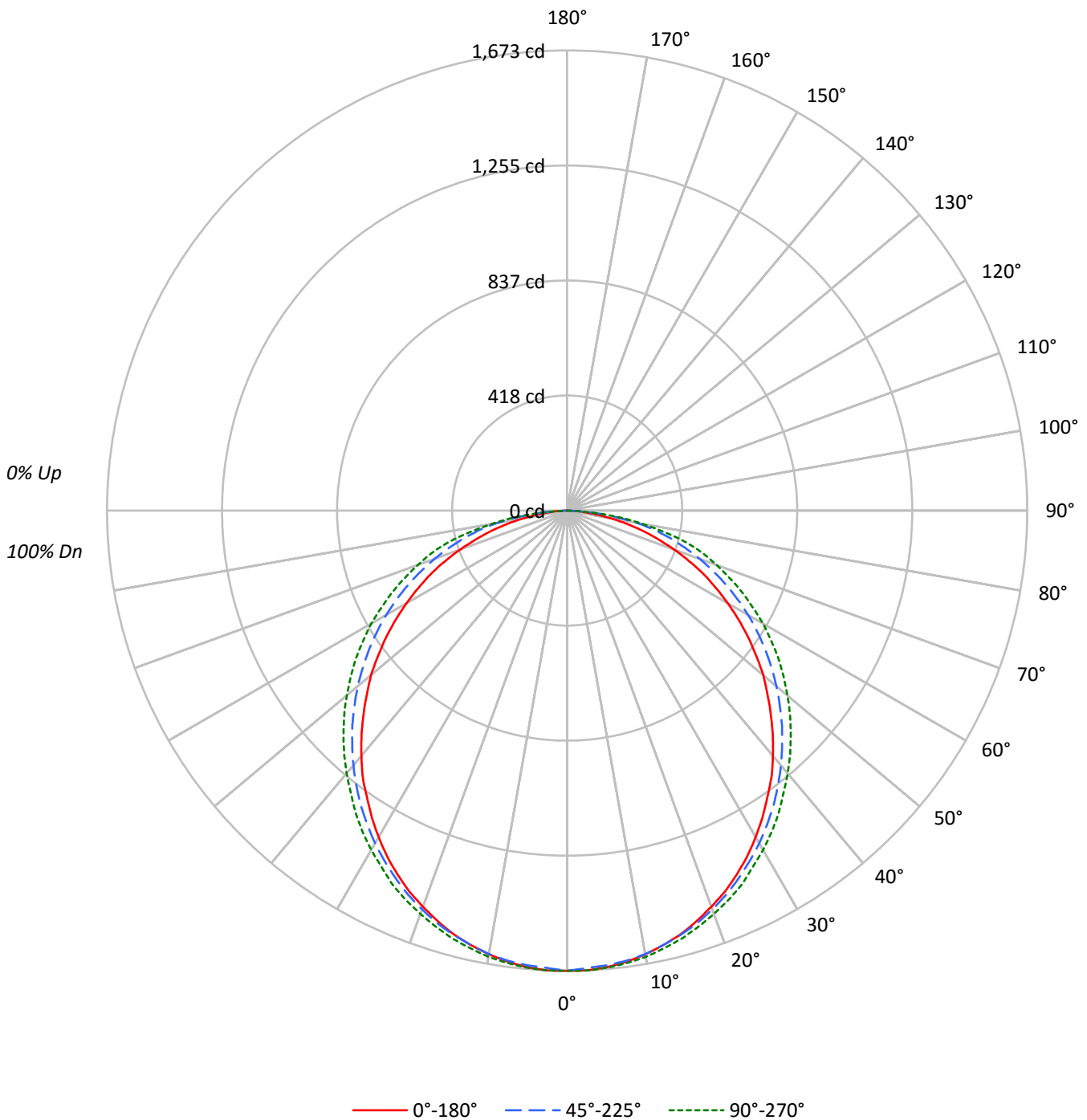
Lumens per Lamp: N/A  
Luminaire Lumens: 4870.6 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.3  
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



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 55  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2251 | 2251 | 2251 |
| 5°  | 2251 | 2241 | 2253 |
| 10° | 2239 | 2236 | 2250 |
| 15° | 2222 | 2224 | 2244 |
| 20° | 2194 | 2209 | 2234 |
| 25° | 2166 | 2190 | 2229 |
| 30° | 2129 | 2170 | 2213 |
| 35° | 2086 | 2148 | 2203 |
| 40° | 2044 | 2123 | 2190 |
| 45° | 1992 | 2102 | 2188 |
| 50° | 1948 | 2079 | 2188 |
| 55° | 1885 | 2061 | 2199 |
| 60° | 1816 | 2045 | 2214 |
| 65° | 1744 | 2027 | 2232 |
| 70° | 1629 | 2012 | 2272 |
| 75° | 1483 | 2017 | 2342 |
| 80° | 1227 | 1994 | 2156 |
| 85° | 940  | 1584 | 1530 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.2  | 3.2       |
| 10°-20°   | 451.7  | 9.3       |
| 20°-30°   | 681.5  | 14.0      |
| 30°-40°   | 818.1  | 16.8      |
| 40°-50°   | 850.9  | 17.5      |
| 50°-60°   | 782.5  | 16.1      |
| 60°-70°   | 623.7  | 12.8      |
| 70°-80°   | 395.2  | 8.1       |
| 80°-90°   | 108.7  | 2.2       |
| 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°    | 1291.4 | 26.5      |
| 0°-40°    | 2109.6 | 43.3      |
| 0°-60°    | 3743.0 | 76.8      |
| 0°-90°    | 4870.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4870.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1673 | 1673  | 1673 | 1673  | 1673 |      |
| 5°  | 1666 | 1666  | 1659 | 1668  | 1668 | 158  |
| 15° | 1595 | 1595  | 1597 | 1609  | 1611 | 449  |
| 25° | 1459 | 1466  | 1475 | 1496  | 1501 | 672  |
| 35° | 1270 | 1284  | 1308 | 1332  | 1341 | 795  |
| 45° | 1047 | 1070  | 1104 | 1139  | 1150 | 808  |
| 55° | 804  | 830   | 878  | 922   | 938  | 718  |
| 65° | 548  | 576   | 637  | 685   | 701  | 540  |
| 75° | 285  | 322   | 388  | 437   | 450  | 300  |
| 85° | 61   | 87    | 103  | 101   | 99   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1673.3 | 1673.3 | 1673.3 | 1673.3 | 1673.3 |
| 2.5°  | 1673.3 | 1673.3 | 1664.6 | 1673.3 | 1673.3 |
| 5°    | 1666.3 | 1666.3 | 1659.4 | 1668.1 | 1668.1 |
| 7.5°  | 1654.2 | 1655.9 | 1650.7 | 1659.4 | 1659.4 |
| 10°   | 1638.5 | 1640.2 | 1636.8 | 1647.2 | 1647.2 |
| 12.5° | 1617.6 | 1619.4 | 1617.6 | 1629.8 | 1629.8 |
| 15°   | 1595.0 | 1595.0 | 1596.8 | 1608.9 | 1610.7 |
| 17.5° | 1565.4 | 1568.9 | 1572.4 | 1586.3 | 1586.3 |
| 20°   | 1532.4 | 1537.6 | 1542.8 | 1560.2 | 1560.2 |
| 22.5° | 1499.4 | 1504.6 | 1511.5 | 1528.9 | 1532.4 |
| 25°   | 1459.3 | 1466.3 | 1475.0 | 1495.9 | 1501.1 |
| 27.5° | 1417.6 | 1422.8 | 1436.7 | 1459.3 | 1461.1 |
| 30°   | 1370.6 | 1379.3 | 1396.7 | 1419.3 | 1424.6 |
| 32.5° | 1321.9 | 1334.1 | 1353.2 | 1379.3 | 1384.6 |
| 35°   | 1269.8 | 1283.7 | 1308.0 | 1332.4 | 1341.1 |
| 37.5° | 1221.1 | 1231.5 | 1259.3 | 1287.1 | 1292.4 |
| 40°   | 1163.7 | 1179.3 | 1208.9 | 1240.2 | 1247.1 |
| 42.5° | 1106.3 | 1123.6 | 1156.7 | 1188.0 | 1200.2 |
| 45°   | 1047.1 | 1069.7 | 1104.5 | 1139.3 | 1149.7 |
| 47.5° | 988.0  | 1012.3 | 1048.9 | 1087.1 | 1099.3 |
| 50°   | 930.6  | 953.2  | 993.2  | 1033.2 | 1045.4 |
| 52.5° | 866.2  | 892.3  | 935.8  | 979.3  | 991.5  |
| 55°   | 803.6  | 829.7  | 878.4  | 921.9  | 937.5  |
| 57.5° | 739.2  | 768.8  | 819.3  | 864.5  | 878.4  |
| 60°   | 674.9  | 706.2  | 760.1  | 805.3  | 822.7  |
| 62.5° | 610.5  | 640.1  | 699.2  | 744.5  | 760.1  |
| 65°   | 547.9  | 575.7  | 636.6  | 685.3  | 701.0  |
| 67.5° | 480.1  | 511.4  | 574.0  | 624.4  | 638.4  |
| 70°   | 414.0  | 445.3  | 511.4  | 563.6  | 577.5  |
| 72.5° | 346.1  | 382.7  | 448.8  | 499.2  | 518.3  |
| 75°   | 285.3  | 321.8  | 387.9  | 436.6  | 450.5  |
| 77.5° | 220.9  | 257.4  | 325.3  | 360.1  | 361.8  |
| 80°   | 158.3  | 200.0  | 257.4  | 271.3  | 278.3  |
| 82.5° | 104.4  | 144.4  | 177.4  | 194.8  | 194.8  |
| 85°   | 60.9   | 87.0   | 102.6  | 100.9  | 99.1   |
| 87.5° | 22.6   | 29.6   | 24.4   | 17.4   | 12.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)