

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: P302202

Luminaire Tested: **ZX-WO-44L830-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-44L830-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (196)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

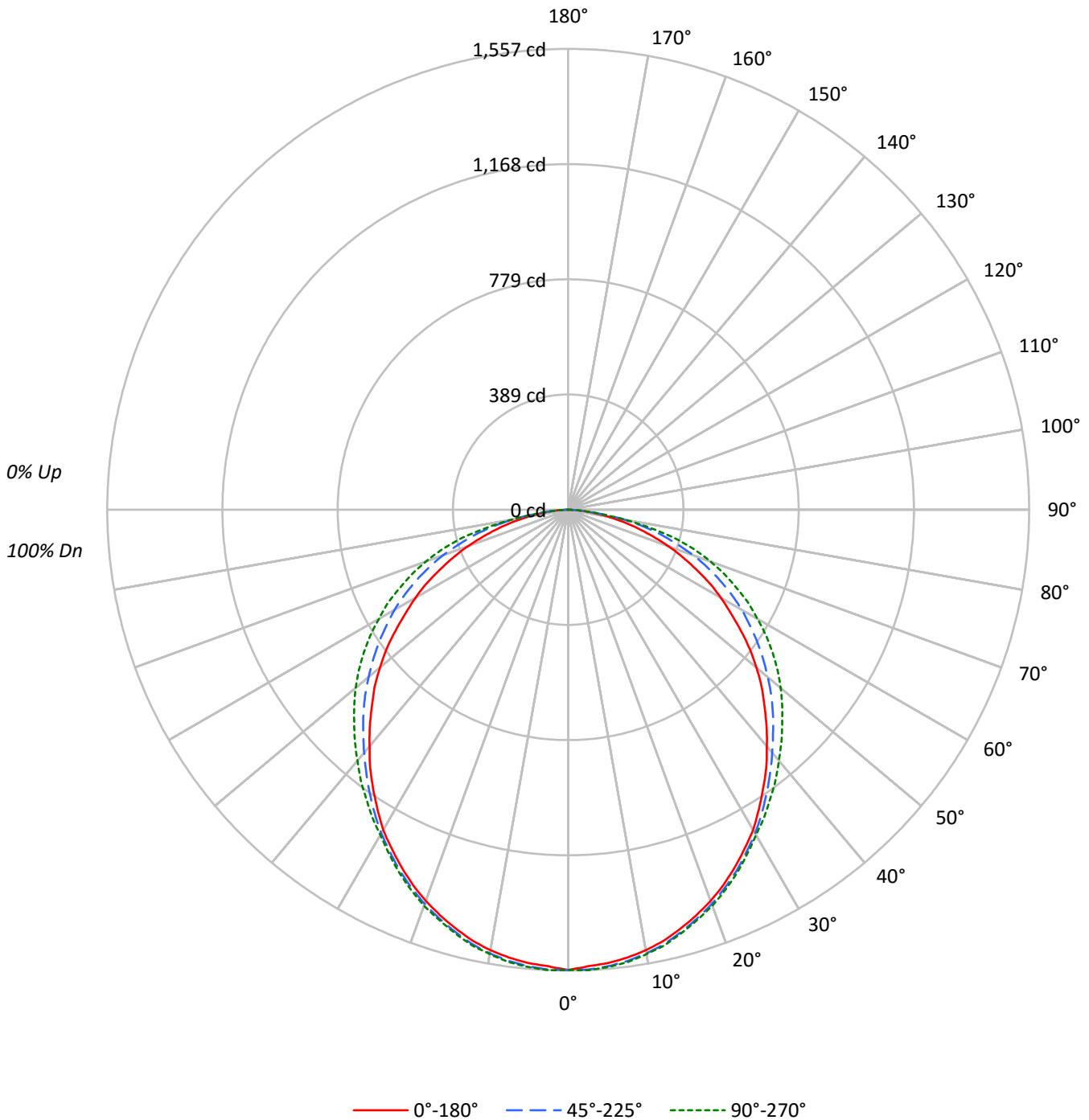
Lumens per Lamp: N/A  
Luminaire Lumens: 4322.1 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 76  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |    |    |    |    | 43  |   |  |   |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |    |    | 24  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4184 | 4184 | 4184 |
| 5°  | 4153 | 4183 | 4189 |
| 10° | 4130 | 4160 | 4166 |
| 15° | 4083 | 4113 | 4125 |
| 20° | 4028 | 4059 | 4078 |
| 25° | 3956 | 3995 | 4014 |
| 30° | 3882 | 3923 | 3943 |
| 35° | 3774 | 3839 | 3910 |
| 40° | 3667 | 3767 | 3890 |
| 45° | 3566 | 3723 | 3890 |
| 50° | 3474 | 3685 | 3923 |
| 55° | 3340 | 3658 | 3955 |
| 60° | 3209 | 3644 | 3973 |
| 65° | 3032 | 3602 | 4005 |
| 70° | 2836 | 3540 | 4021 |
| 75° | 2543 | 3360 | 3883 |
| 80° | 2132 | 2944 | 2978 |
| 85° | 1686 | 1686 | 1349 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.8  | 3.4       |
| 10°-20°   | 415.9  | 9.6       |
| 20°-30°   | 618.9  | 14.3      |
| 30°-40°   | 732.1  | 16.9      |
| 40°-50°   | 756.5  | 17.5      |
| 50°-60°   | 695.5  | 16.1      |
| 60°-70°   | 553.1  | 12.8      |
| 70°-80°   | 331.3  | 7.7       |
| 80°-90°   | 72.2   | 1.7       |
| 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°    | 1181.5 | 27.3      |
| 0°-40°    | 1913.6 | 44.3      |
| 0°-60°    | 3365.6 | 77.9      |
| 0°-90°    | 4322.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4322.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1555 | 1555  | 1555 | 1555  | 1555 |      |
| 5°  | 1538 | 1542  | 1548 | 1551  | 1551 | 146  |
| 15° | 1466 | 1470  | 1476 | 1481  | 1481 | 413  |
| 25° | 1332 | 1337  | 1345 | 1352  | 1352 | 614  |
| 35° | 1149 | 1155  | 1168 | 1184  | 1190 | 719  |
| 45° | 937  | 946   | 978  | 1013  | 1022 | 724  |
| 55° | 712  | 727   | 780  | 828   | 843  | 637  |
| 65° | 476  | 504   | 566  | 616   | 629  | 473  |
| 75° | 245  | 277   | 323  | 360   | 374  | 259  |
| 85° | 55   | 59    | 55   | 50    | 44   | 64   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1555.0 | 1555.0 | 1555.0 | 1555.0 | 1555.0 |
| 2.5°  | 1544.1 | 1548.5 | 1555.0 | 1557.2 | 1557.2 |
| 5°    | 1537.6 | 1541.9 | 1548.5 | 1550.7 | 1550.7 |
| 7.5°  | 1526.6 | 1531.0 | 1537.6 | 1539.7 | 1541.9 |
| 10°   | 1511.4 | 1515.7 | 1522.3 | 1524.5 | 1524.5 |
| 12.5° | 1491.7 | 1493.9 | 1502.6 | 1504.8 | 1507.0 |
| 15°   | 1465.5 | 1469.9 | 1476.4 | 1480.8 | 1480.8 |
| 17.5° | 1437.1 | 1441.5 | 1448.0 | 1452.4 | 1452.4 |
| 20°   | 1406.5 | 1410.9 | 1417.4 | 1421.8 | 1424.0 |
| 22.5° | 1371.6 | 1375.9 | 1382.5 | 1389.0 | 1389.0 |
| 25°   | 1332.3 | 1336.6 | 1345.4 | 1351.9 | 1351.9 |
| 27.5° | 1290.8 | 1295.1 | 1303.9 | 1310.4 | 1310.4 |
| 30°   | 1249.3 | 1251.5 | 1262.4 | 1266.7 | 1268.9 |
| 32.5° | 1199.0 | 1205.6 | 1216.5 | 1225.2 | 1231.8 |
| 35°   | 1148.8 | 1155.4 | 1168.5 | 1183.7 | 1190.3 |
| 37.5° | 1098.6 | 1105.1 | 1120.4 | 1142.3 | 1151.0 |
| 40°   | 1044.0 | 1052.7 | 1072.4 | 1100.8 | 1107.3 |
| 42.5° | 991.6  | 1002.5 | 1024.3 | 1057.1 | 1065.8 |
| 45°   | 937.0  | 945.7  | 978.4  | 1013.4 | 1022.1 |
| 47.5° | 886.7  | 893.3  | 930.4  | 969.7  | 980.6  |
| 50°   | 829.9  | 838.7  | 880.2  | 923.8  | 937.0  |
| 52.5° | 773.1  | 784.1  | 829.9  | 875.8  | 891.1  |
| 55°   | 712.0  | 727.3  | 779.7  | 827.7  | 843.0  |
| 57.5° | 650.8  | 672.7  | 727.3  | 775.3  | 792.8  |
| 60°   | 596.2  | 615.9  | 677.1  | 722.9  | 738.2  |
| 62.5° | 539.5  | 561.3  | 622.5  | 668.3  | 688.0  |
| 65°   | 476.1  | 504.5  | 565.7  | 615.9  | 629.0  |
| 67.5° | 419.3  | 447.7  | 508.9  | 554.7  | 572.2  |
| 70°   | 360.4  | 393.1  | 449.9  | 491.4  | 511.1  |
| 72.5° | 299.2  | 334.2  | 384.4  | 428.1  | 447.7  |
| 75°   | 244.6  | 277.4  | 323.2  | 360.4  | 373.5  |
| 77.5° | 190.0  | 220.6  | 257.7  | 279.6  | 283.9  |
| 80°   | 137.6  | 161.6  | 190.0  | 194.4  | 192.2  |
| 82.5° | 91.7   | 109.2  | 117.9  | 113.6  | 113.6  |
| 85°   | 54.6   | 59.0   | 54.6   | 50.2   | 43.7   |
| 87.5° | 19.7   | 17.5   | 13.1   | 8.7    | 4.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)