

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: P302250

Luminaire Tested: **RX-WO-70H835-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302250  
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-70H835-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (588)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

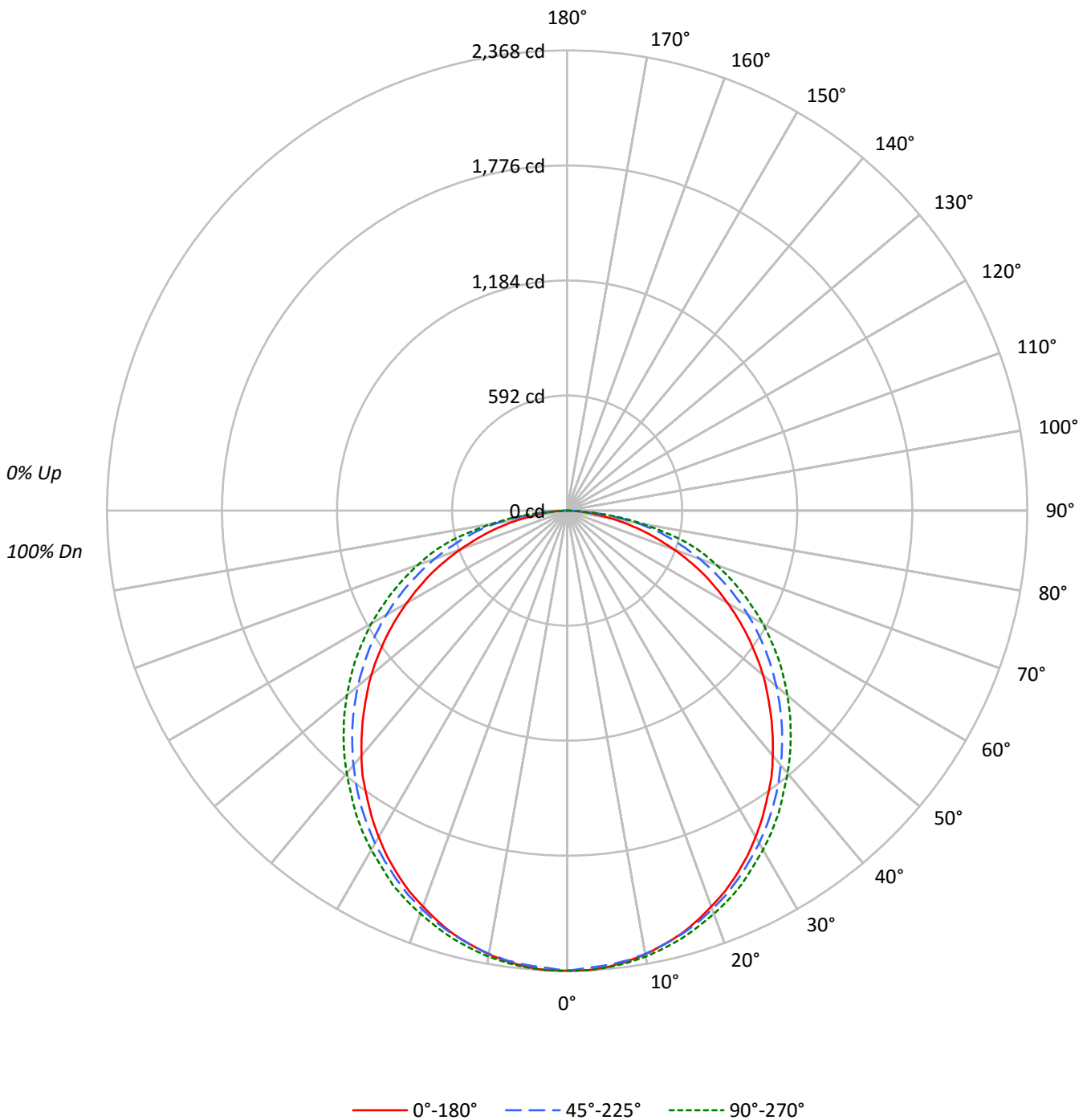
Lumens per Lamp: N/A  
Luminaire Lumens: 6892.0 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.9  
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°  | 3186 | 3186 | 3186 |
| 5°  | 3185 | 3171 | 3188 |
| 10° | 3168 | 3164 | 3184 |
| 15° | 3144 | 3147 | 3175 |
| 20° | 3105 | 3126 | 3161 |
| 25° | 3066 | 3099 | 3153 |
| 30° | 3013 | 3071 | 3132 |
| 35° | 2951 | 3040 | 3117 |
| 40° | 2892 | 3005 | 3100 |
| 45° | 2819 | 2974 | 3096 |
| 50° | 2756 | 2942 | 3096 |
| 55° | 2667 | 2916 | 3112 |
| 60° | 2570 | 2894 | 3133 |
| 65° | 2468 | 2868 | 3158 |
| 70° | 2305 | 2847 | 3214 |
| 75° | 2099 | 2853 | 3314 |
| 80° | 1736 | 2823 | 3051 |
| 85° | 1329 | 2242 | 2166 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 223.9  | 3.2       |
| 10°-20°   | 639.2  | 9.3       |
| 20°-30°   | 964.3  | 14.0      |
| 30°-40°   | 1157.7 | 16.8      |
| 40°-50°   | 1204.0 | 17.5      |
| 50°-60°   | 1107.3 | 16.1      |
| 60°-70°   | 882.5  | 12.8      |
| 70°-80°   | 559.2  | 8.1       |
| 80°-90°   | 153.8  | 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°    | 1827.4 | 26.5      |
| 0°-40°    | 2985.1 | 43.3      |
| 0°-60°    | 5296.5 | 76.8      |
| 0°-90°    | 6892.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6892.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2368 | 2368  | 2368 | 2368  | 2368 |      |
| 5°  | 2358 | 2358  | 2348 | 2360  | 2360 | 224  |
| 15° | 2257 | 2257  | 2260 | 2277  | 2279 | 636  |
| 25° | 2065 | 2075  | 2087 | 2117  | 2124 | 951  |
| 35° | 1797 | 1816  | 1851 | 1885  | 1898 | 1125 |
| 45° | 1482 | 1514  | 1563 | 1612  | 1627 | 1144 |
| 55° | 1137 | 1174  | 1243 | 1304  | 1327 | 1016 |
| 65° | 775  | 815   | 901  | 970   | 992  | 764  |
| 75° | 404  | 455   | 549  | 618   | 638  | 425  |
| 85° | 86   | 123   | 145  | 143   | 140  | 103  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 |
| 2.5°  | 2367.8 | 2367.8 | 2355.5 | 2367.8 | 2367.8 |
| 5°    | 2357.9 | 2357.9 | 2348.1 | 2360.4 | 2360.4 |
| 7.5°  | 2340.7 | 2343.2 | 2335.8 | 2348.1 | 2348.1 |
| 10°   | 2318.5 | 2321.0 | 2316.1 | 2330.8 | 2330.8 |
| 12.5° | 2289.0 | 2291.5 | 2289.0 | 2306.2 | 2306.2 |
| 15°   | 2257.0 | 2257.0 | 2259.5 | 2276.7 | 2279.2 |
| 17.5° | 2215.2 | 2220.1 | 2225.0 | 2244.7 | 2244.7 |
| 20°   | 2168.4 | 2175.8 | 2183.2 | 2207.8 | 2207.8 |
| 22.5° | 2121.6 | 2129.0 | 2138.9 | 2163.5 | 2168.4 |
| 25°   | 2065.0 | 2074.9 | 2087.2 | 2116.7 | 2124.1 |
| 27.5° | 2006.0 | 2013.3 | 2033.0 | 2065.0 | 2067.5 |
| 30°   | 1939.5 | 1951.8 | 1976.4 | 2008.4 | 2015.8 |
| 32.5° | 1870.6 | 1887.8 | 1914.9 | 1951.8 | 1959.2 |
| 35°   | 1796.7 | 1816.4 | 1850.9 | 1885.4 | 1897.7 |
| 37.5° | 1727.8 | 1742.6 | 1782.0 | 1821.4 | 1828.7 |
| 40°   | 1646.6 | 1668.8 | 1710.6 | 1754.9 | 1764.7 |
| 42.5° | 1565.4 | 1590.0 | 1636.8 | 1681.1 | 1698.3 |
| 45°   | 1481.7 | 1513.7 | 1562.9 | 1612.1 | 1626.9 |
| 47.5° | 1398.0 | 1432.5 | 1484.2 | 1538.3 | 1555.5 |
| 50°   | 1316.8 | 1348.8 | 1405.4 | 1462.0 | 1479.2 |
| 52.5° | 1225.7 | 1262.6 | 1324.2 | 1385.7 | 1402.9 |
| 55°   | 1137.1 | 1174.0 | 1243.0 | 1304.5 | 1326.6 |
| 57.5° | 1046.1 | 1087.9 | 1159.3 | 1223.3 | 1243.0 |
| 60°   | 955.0  | 999.3  | 1075.6 | 1139.6 | 1164.2 |
| 62.5° | 863.9  | 905.8  | 989.4  | 1053.4 | 1075.6 |
| 65°   | 775.3  | 814.7  | 900.8  | 969.7  | 991.9  |
| 67.5° | 679.3  | 723.6  | 812.2  | 883.6  | 903.3  |
| 70°   | 585.8  | 630.1  | 723.6  | 797.5  | 817.1  |
| 72.5° | 489.8  | 541.5  | 635.0  | 706.4  | 733.5  |
| 75°   | 403.7  | 455.3  | 548.9  | 617.8  | 637.5  |
| 77.5° | 312.6  | 364.3  | 460.3  | 509.5  | 511.9  |
| 80°   | 224.0  | 283.0  | 364.3  | 384.0  | 393.8  |
| 82.5° | 147.7  | 204.3  | 251.1  | 275.7  | 275.7  |
| 85°   | 86.1   | 123.1  | 145.2  | 142.8  | 140.3  |
| 87.5° | 32.0   | 41.8   | 34.5   | 24.6   | 17.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)