

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: P303023

Luminaire Tested: **CTW-F-0100-40L830-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-0100-40L830-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
0% UPLIGHT, 100% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7811.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: Direct

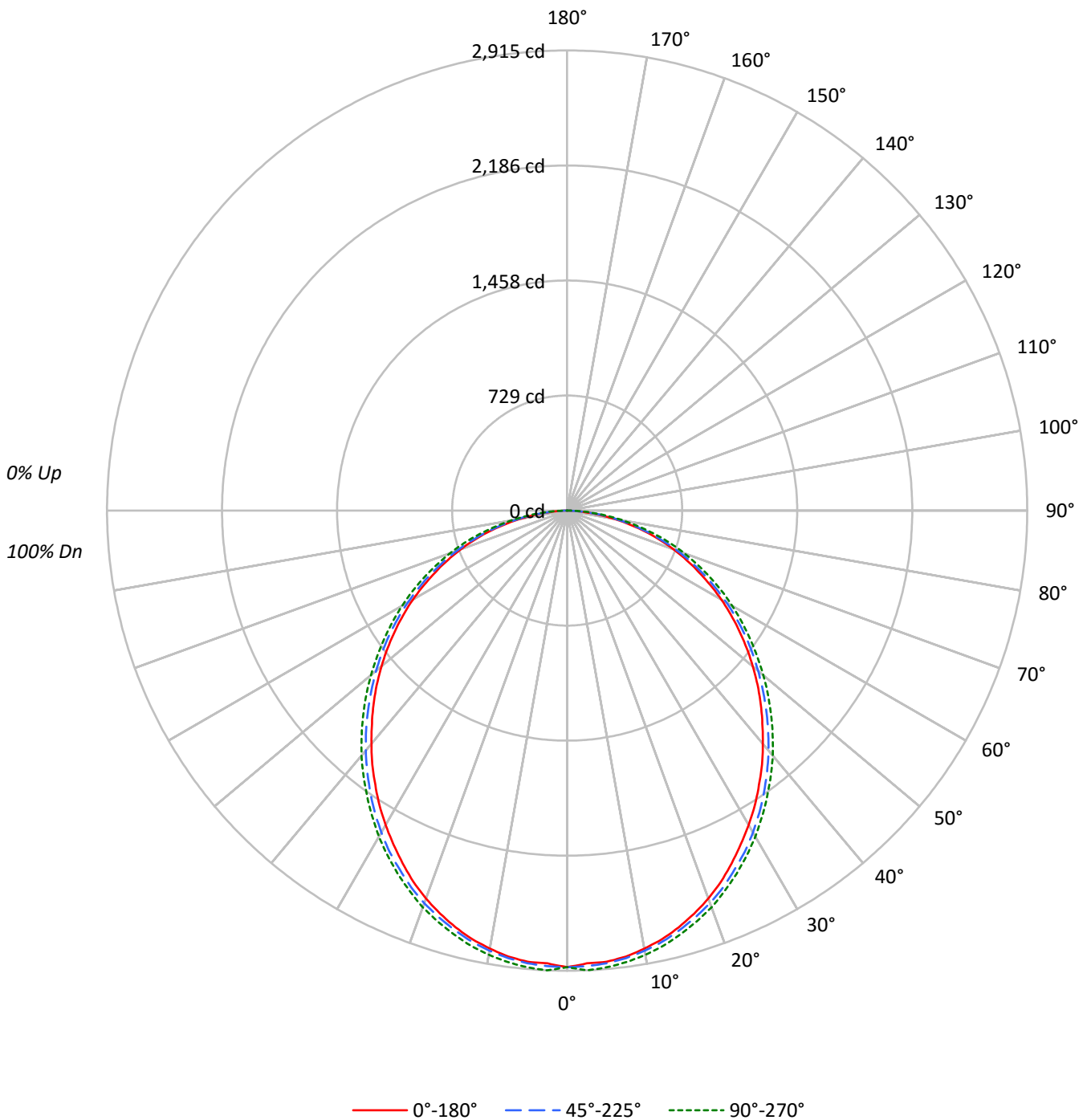
Input Watts (W): 73.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | | 82 | 77 | 73 | | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | | 72 | 67 | 62 | | 70 | 65 | 61 | 59 |
| 4 | 83 | 70 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | | 64 | 58 | 53 | | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | | 58 | 51 | 46 | | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | | 52 | 46 | 40 | | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | | 48 | 41 | 36 | | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | | 44 | 37 | 32 | | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | | 40 | 34 | 29 | | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | | 37 | 31 | 26 | | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 31132 | 31132 | 31132 |
| 5° | 31002 | 31106 | 31376 |
| 10° | 30793 | 30941 | 31235 |
| 15° | 30452 | 30666 | 30966 |
| 20° | 29959 | 30311 | 30641 |
| 25° | 29281 | 29806 | 30149 |
| 30° | 28587 | 29256 | 29638 |
| 35° | 27847 | 28580 | 29035 |
| 40° | 27102 | 27886 | 28481 |
| 45° | 26405 | 27137 | 27810 |
| 50° | 25698 | 26438 | 27180 |
| 55° | 25010 | 25804 | 26526 |
| 60° | 24301 | 25089 | 25999 |
| 65° | 23412 | 24293 | 25421 |
| 70° | 22575 | 23361 | 24815 |
| 75° | 21194 | 22154 | 23834 |
| 80° | 18714 | 20146 | 22290 |
| 85° | 13536 | 15907 | 19946 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 273.0 | 3.5 |
| 10°-20° | 774.2 | 9.9 |
| 20°-30° | 1149.7 | 14.7 |
| 30°-40° | 1351.6 | 17.3 |
| 40°-50° | 1370.7 | 17.5 |
| 50°-60° | 1227.2 | 15.7 |
| 60°-70° | 946.3 | 12.1 |
| 70°-80° | 564.7 | 7.2 |
| 80°-90° | 154.5 | 2.0 |
| 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° | 2196.9 | 28.1 |
| 0°-40° | 3548.5 | 45.4 |
| 0°-60° | 6146.5 | 78.7 |
| 0°-90° | 7811.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7811.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2892 | 2892 | 2892 | 2892 | 2892 | |
| 5° | 2869 | 2869 | 2879 | 2869 | 2904 | 272 |
| 15° | 2733 | 2736 | 2752 | 2742 | 2779 | 770 |
| 25° | 2465 | 2469 | 2510 | 2504 | 2538 | 1136 |
| 35° | 2119 | 2125 | 2175 | 2177 | 2210 | 1327 |
| 45° | 1735 | 1740 | 1783 | 1802 | 1827 | 1338 |
| 55° | 1333 | 1342 | 1375 | 1400 | 1414 | 1192 |
| 65° | 919 | 929 | 954 | 981 | 998 | 911 |
| 75° | 510 | 514 | 533 | 552 | 573 | 537 |
| 85° | 110 | 114 | 129 | 150 | 162 | 134 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2892.3 | 2892.3 | 2892.3 | 2892.3 | 2892.3 |
| 2.5° | 2871.2 | 2882.7 | 2888.5 | 2880.8 | 2915.4 |
| 5° | 2869.2 | 2869.2 | 2878.8 | 2869.2 | 2903.8 |
| 7.5° | 2850.0 | 2850.0 | 2859.6 | 2850.0 | 2884.6 |
| 10° | 2817.3 | 2819.2 | 2830.8 | 2823.1 | 2857.7 |
| 12.5° | 2780.8 | 2778.8 | 2796.2 | 2786.5 | 2823.1 |
| 15° | 2732.7 | 2736.5 | 2751.9 | 2742.3 | 2778.8 |
| 17.5° | 2676.9 | 2682.7 | 2701.9 | 2692.3 | 2728.8 |
| 20° | 2615.4 | 2617.3 | 2646.2 | 2634.6 | 2675.0 |
| 22.5° | 2546.2 | 2544.2 | 2582.7 | 2573.1 | 2607.7 |
| 25° | 2465.4 | 2469.2 | 2509.6 | 2503.8 | 2538.5 |
| 27.5° | 2382.7 | 2388.5 | 2436.5 | 2426.9 | 2463.5 |
| 30° | 2300.0 | 2303.8 | 2353.8 | 2346.2 | 2384.6 |
| 32.5° | 2213.5 | 2217.3 | 2267.3 | 2265.4 | 2298.1 |
| 35° | 2119.2 | 2125.0 | 2175.0 | 2176.9 | 2209.6 |
| 37.5° | 2028.8 | 2030.8 | 2080.8 | 2086.5 | 2119.2 |
| 40° | 1928.8 | 1936.5 | 1984.6 | 1994.2 | 2026.9 |
| 42.5° | 1830.8 | 1838.5 | 1884.6 | 1898.1 | 1926.9 |
| 45° | 1734.6 | 1740.4 | 1782.7 | 1801.9 | 1826.9 |
| 47.5° | 1636.5 | 1640.4 | 1680.8 | 1701.9 | 1725.0 |
| 50° | 1534.6 | 1542.3 | 1578.8 | 1600.0 | 1623.1 |
| 52.5° | 1434.6 | 1442.3 | 1478.8 | 1500.0 | 1517.3 |
| 55° | 1332.7 | 1342.3 | 1375.0 | 1400.0 | 1413.5 |
| 57.5° | 1230.8 | 1240.4 | 1271.2 | 1296.2 | 1311.5 |
| 60° | 1128.8 | 1138.5 | 1165.4 | 1192.3 | 1207.7 |
| 62.5° | 1023.1 | 1034.6 | 1059.6 | 1088.5 | 1103.8 |
| 65° | 919.2 | 928.8 | 953.8 | 980.8 | 998.1 |
| 67.5° | 817.3 | 826.9 | 848.1 | 873.1 | 892.3 |
| 70° | 717.3 | 723.1 | 742.3 | 767.3 | 788.5 |
| 72.5° | 615.4 | 621.2 | 636.5 | 659.6 | 682.7 |
| 75° | 509.6 | 513.5 | 532.7 | 551.9 | 573.1 |
| 77.5° | 403.8 | 407.7 | 425.0 | 446.2 | 463.5 |
| 80° | 301.9 | 307.7 | 325.0 | 344.2 | 359.6 |
| 82.5° | 201.9 | 205.8 | 226.9 | 246.2 | 257.7 |
| 85° | 109.6 | 113.5 | 128.8 | 150.0 | 161.5 |
| 87.5° | 28.8 | 30.8 | 40.4 | 59.6 | 73.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)