

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: P303039

Luminaire Tested: **CTW-F-0100-50L940-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-0100-50L940-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
0% UPLIGHT, 100% DOWNLIGHT, 5000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6705.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: Direct

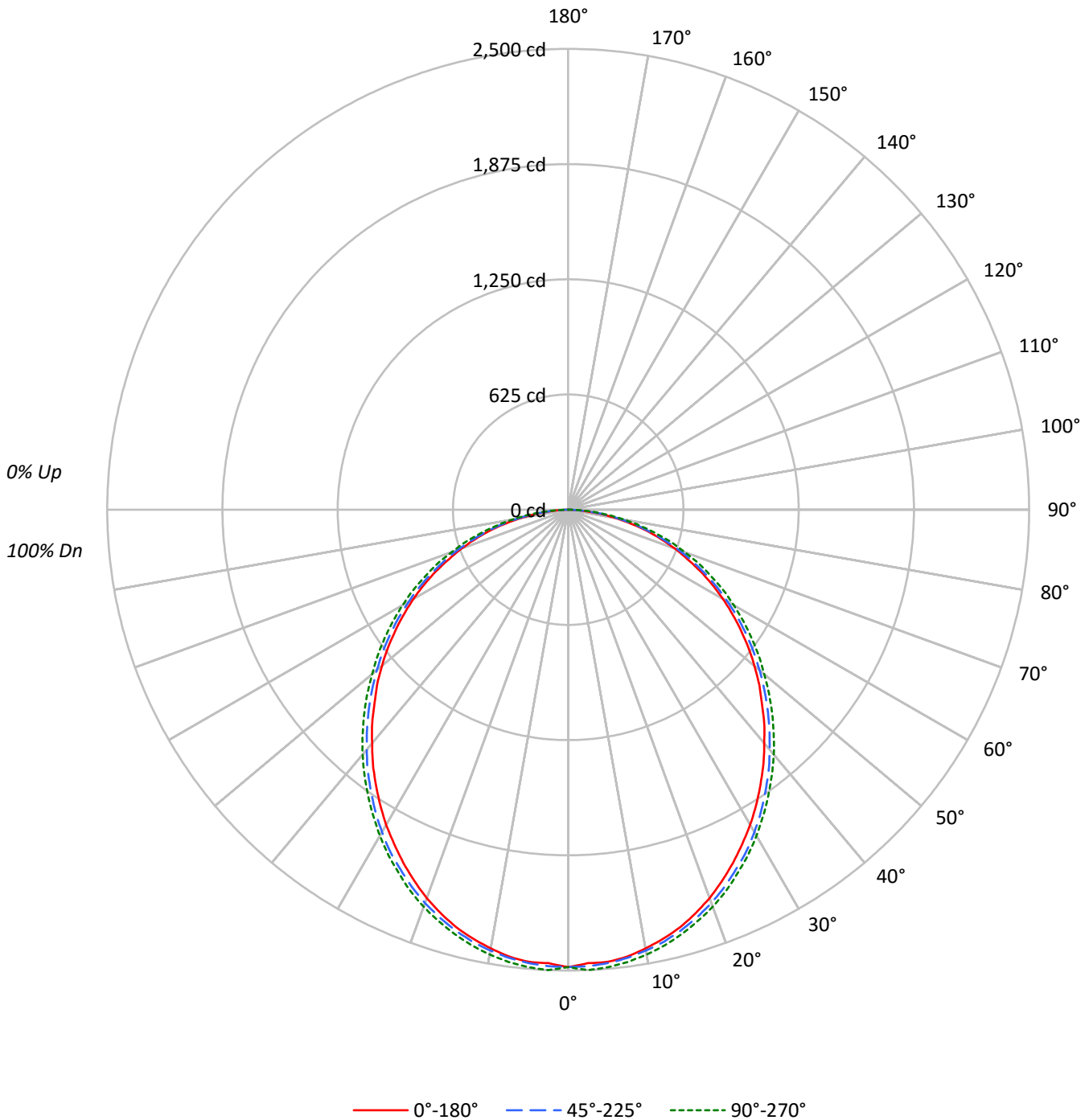
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 90 | 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 | 82 | 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° | 35610 | 35610 | 35610 |
| 5° | 35474 | 35572 | 35883 |
| 10° | 35215 | 35393 | 35707 |
| 15° | 34841 | 35102 | 35403 |
| 20° | 34247 | 34680 | 35010 |
| 25° | 33478 | 34097 | 34439 |
| 30° | 32708 | 33469 | 33849 |
| 35° | 31859 | 32663 | 33161 |
| 40° | 30982 | 31842 | 32500 |
| 45° | 30140 | 31017 | 31756 |
| 50° | 29448 | 30232 | 30986 |
| 55° | 28645 | 29488 | 30401 |
| 60° | 27823 | 28675 | 29760 |
| 65° | 26865 | 27782 | 29066 |
| 70° | 25773 | 26625 | 28211 |
| 75° | 24476 | 25225 | 27021 |
| 80° | 21753 | 23092 | 25216 |
| 85° | 16006 | 18229 | 22444 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 234.2 | 3.5 |
| 10°-20° | 664.4 | 9.9 |
| 20°-30° | 986.6 | 14.7 |
| 30°-40° | 1159.9 | 17.3 |
| 40°-50° | 1175.9 | 17.5 |
| 50°-60° | 1053.1 | 15.7 |
| 60°-70° | 812.2 | 12.1 |
| 70°-80° | 485.3 | 7.2 |
| 80°-90° | 133.6 | 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° | 1885.1 | 28.1 |
| 0°-40° | 3045.0 | 45.4 |
| 0°-60° | 5273.9 | 78.7 |
| 0°-90° | 6705.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6705.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2481 | 2481 | 2481 | 2481 | 2481 | |
| 5° | 2462 | 2462 | 2469 | 2462 | 2491 | 234 |
| 15° | 2345 | 2349 | 2362 | 2353 | 2383 | 660 |
| 25° | 2114 | 2121 | 2153 | 2148 | 2175 | 974 |
| 35° | 1818 | 1825 | 1864 | 1870 | 1893 | 1138 |
| 45° | 1485 | 1496 | 1528 | 1543 | 1565 | 1149 |
| 55° | 1145 | 1150 | 1178 | 1200 | 1215 | 1024 |
| 65° | 791 | 798 | 818 | 844 | 856 | 782 |
| 75° | 441 | 444 | 455 | 476 | 487 | 462 |
| 85° | 97 | 98 | 111 | 131 | 136 | 117 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2481.2 | 2481.2 | 2481.2 | 2481.2 | 2481.2 |
| 2.5° | 2462.3 | 2473.1 | 2478.5 | 2471.8 | 2500.1 |
| 5° | 2462.3 | 2462.3 | 2469.1 | 2462.3 | 2490.7 |
| 7.5° | 2446.1 | 2444.8 | 2452.9 | 2446.1 | 2474.5 |
| 10° | 2416.4 | 2417.8 | 2428.6 | 2421.8 | 2450.2 |
| 12.5° | 2384.0 | 2385.4 | 2400.2 | 2390.8 | 2420.5 |
| 15° | 2344.9 | 2349.0 | 2362.5 | 2353.0 | 2382.7 |
| 17.5° | 2296.3 | 2303.1 | 2319.3 | 2311.2 | 2339.5 |
| 20° | 2242.3 | 2245.0 | 2270.7 | 2262.6 | 2292.3 |
| 22.5° | 2180.2 | 2184.3 | 2215.3 | 2207.2 | 2238.3 |
| 25° | 2114.1 | 2120.8 | 2153.2 | 2147.8 | 2174.8 |
| 27.5° | 2043.9 | 2052.0 | 2091.1 | 2084.4 | 2112.7 |
| 30° | 1973.7 | 1980.4 | 2019.6 | 2015.5 | 2042.5 |
| 32.5° | 1898.1 | 1904.8 | 1945.3 | 1944.0 | 1968.3 |
| 35° | 1818.4 | 1825.2 | 1864.3 | 1869.7 | 1892.7 |
| 37.5° | 1740.1 | 1745.5 | 1786.0 | 1792.8 | 1814.4 |
| 40° | 1653.7 | 1664.5 | 1699.6 | 1709.1 | 1734.7 |
| 42.5° | 1574.1 | 1580.8 | 1614.6 | 1628.1 | 1649.7 |
| 45° | 1485.0 | 1495.8 | 1528.2 | 1543.0 | 1564.6 |
| 47.5° | 1405.3 | 1410.7 | 1441.8 | 1460.7 | 1476.9 |
| 50° | 1318.9 | 1324.3 | 1354.0 | 1374.3 | 1387.8 |
| 52.5° | 1232.5 | 1237.9 | 1267.6 | 1287.9 | 1302.7 |
| 55° | 1144.8 | 1150.2 | 1178.5 | 1200.1 | 1215.0 |
| 57.5° | 1057.0 | 1063.8 | 1089.4 | 1115.1 | 1125.9 |
| 60° | 969.3 | 976.0 | 999.0 | 1024.6 | 1036.8 |
| 62.5° | 880.2 | 886.9 | 908.5 | 934.2 | 950.4 |
| 65° | 791.1 | 797.8 | 818.1 | 843.7 | 855.9 |
| 67.5° | 699.3 | 708.7 | 727.6 | 751.9 | 769.5 |
| 70° | 614.2 | 619.6 | 634.5 | 657.4 | 672.3 |
| 72.5° | 525.1 | 533.2 | 544.0 | 565.6 | 584.5 |
| 75° | 441.4 | 444.1 | 454.9 | 476.5 | 487.3 |
| 77.5° | 346.9 | 353.7 | 368.5 | 387.4 | 396.9 |
| 80° | 263.2 | 265.9 | 279.4 | 298.3 | 305.1 |
| 82.5° | 175.5 | 179.5 | 194.4 | 213.3 | 218.7 |
| 85° | 97.2 | 98.5 | 110.7 | 130.9 | 136.3 |
| 87.5° | 27.0 | 28.3 | 35.1 | 52.6 | 60.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)