

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: P258446

Luminaire Tested: **D3X-WG-50L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

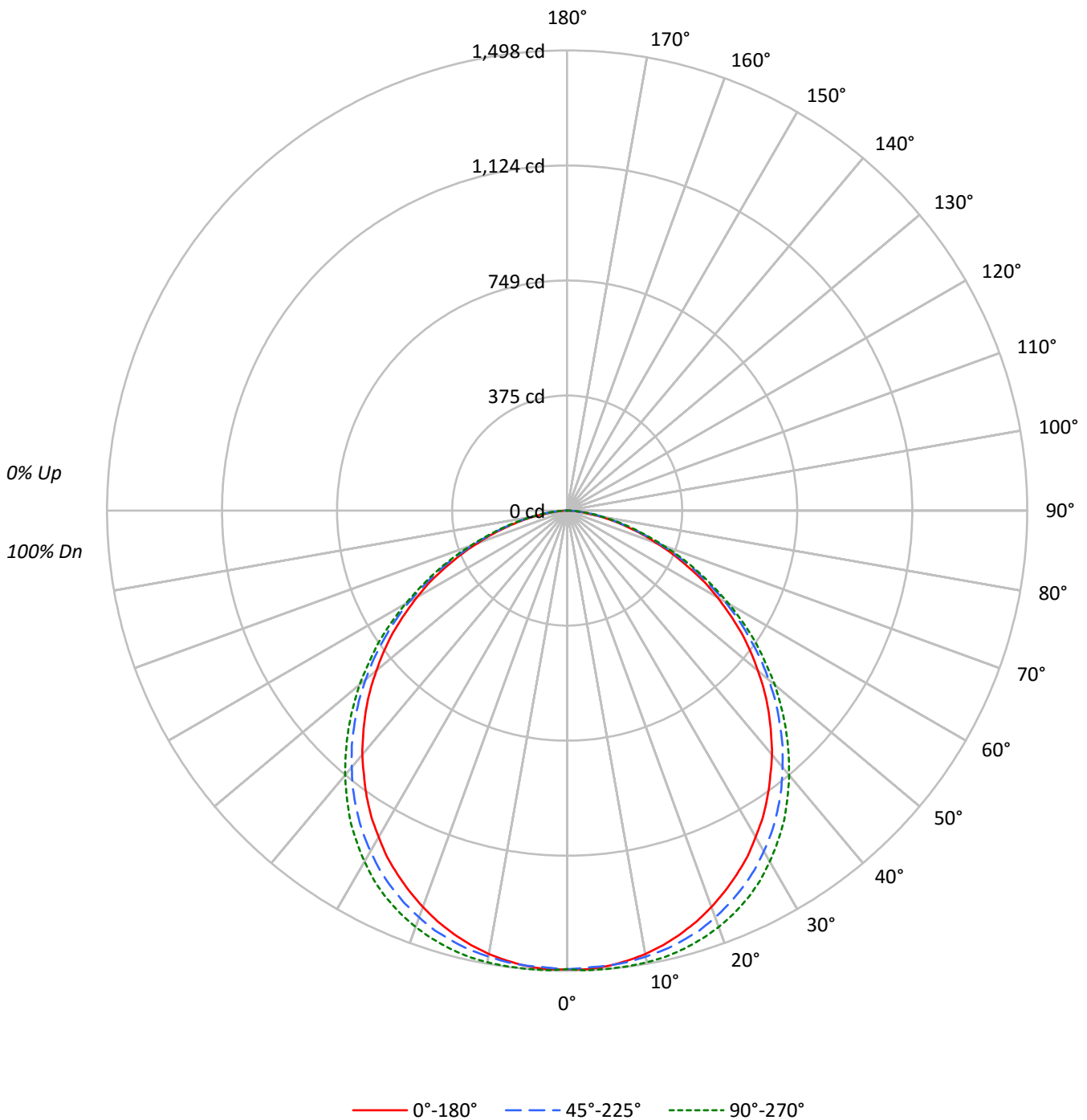
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2009 | 2009 | 2009 |
| 5° | 2011 | 2009 | 2023 |
| 10° | 2003 | 2015 | 2040 |
| 15° | 1987 | 2020 | 2056 |
| 20° | 1966 | 2018 | 2066 |
| 25° | 1940 | 2009 | 2067 |
| 30° | 1906 | 1990 | 2050 |
| 35° | 1868 | 1961 | 2023 |
| 40° | 1822 | 1916 | 1975 |
| 45° | 1765 | 1861 | 1916 |
| 50° | 1696 | 1793 | 1848 |
| 55° | 1623 | 1704 | 1758 |
| 60° | 1519 | 1597 | 1636 |
| 65° | 1387 | 1460 | 1497 |
| 70° | 1218 | 1281 | 1315 |
| 75° | 1030 | 1083 | 1121 |
| 80° | 818 | 897 | 920 |
| 85° | 559 | 670 | 648 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.9 | 3.5 |
| 10°-20° | 409.7 | 10.1 |
| 20°-30° | 622.5 | 15.4 |
| 30°-40° | 742.8 | 18.4 |
| 40°-50° | 750.2 | 18.6 |
| 50°-60° | 646.4 | 16.0 |
| 60°-70° | 450.6 | 11.2 |
| 70°-80° | 223.3 | 5.5 |
| 80°-90° | 52.1 | 1.3 |
| 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° | 1174.1 | 29.1 |
| 0°-40° | 1916.9 | 47.5 |
| 0°-60° | 3313.6 | 82.0 |
| 0°-90° | 4039.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4039.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1493 | 1493 | 1493 | 1493 | 1493 | |
| 5° | 1489 | 1488 | 1488 | 1495 | 1498 | 141 |
| 15° | 1427 | 1434 | 1450 | 1469 | 1476 | 402 |
| 25° | 1307 | 1324 | 1353 | 1380 | 1392 | 602 |
| 35° | 1137 | 1156 | 1194 | 1221 | 1231 | 711 |
| 45° | 928 | 948 | 978 | 1001 | 1007 | 715 |
| 55° | 692 | 706 | 726 | 744 | 750 | 616 |
| 65° | 436 | 444 | 459 | 463 | 470 | 433 |
| 75° | 198 | 201 | 208 | 213 | 216 | 214 |
| 85° | 36 | 43 | 43 | 40 | 42 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1493.3 | 1493.3 | 1493.3 | 1493.3 | 1493.3 |
| 2.5° | 1494.8 | 1491.9 | 1489.0 | 1494.8 | 1497.7 |
| 5° | 1489.0 | 1487.5 | 1487.5 | 1494.8 | 1497.7 |
| 7.5° | 1478.9 | 1478.9 | 1483.2 | 1493.3 | 1496.2 |
| 10° | 1465.8 | 1468.7 | 1474.5 | 1489.0 | 1493.3 |
| 12.5° | 1448.5 | 1454.3 | 1464.4 | 1481.8 | 1487.5 |
| 15° | 1426.8 | 1434.0 | 1449.9 | 1468.7 | 1476.0 |
| 17.5° | 1402.2 | 1412.3 | 1432.6 | 1454.3 | 1461.5 |
| 20° | 1373.2 | 1386.3 | 1409.4 | 1434.0 | 1442.7 |
| 22.5° | 1341.4 | 1357.3 | 1383.4 | 1409.4 | 1419.5 |
| 25° | 1306.7 | 1324.0 | 1353.0 | 1380.5 | 1392.0 |
| 27.5° | 1270.5 | 1287.9 | 1319.7 | 1347.2 | 1358.8 |
| 30° | 1227.1 | 1247.3 | 1280.6 | 1309.6 | 1319.7 |
| 32.5° | 1185.1 | 1205.4 | 1240.1 | 1266.1 | 1276.3 |
| 35° | 1137.4 | 1156.2 | 1193.8 | 1221.3 | 1231.4 |
| 37.5° | 1086.7 | 1108.4 | 1144.6 | 1169.2 | 1177.9 |
| 40° | 1037.5 | 1056.3 | 1091.1 | 1115.7 | 1124.3 |
| 42.5° | 982.5 | 1002.8 | 1037.5 | 1059.2 | 1066.5 |
| 45° | 927.5 | 947.8 | 978.2 | 1001.3 | 1007.1 |
| 47.5° | 871.1 | 889.9 | 920.3 | 939.1 | 944.9 |
| 50° | 810.3 | 827.7 | 856.6 | 875.5 | 882.7 |
| 52.5° | 752.5 | 768.4 | 793.0 | 808.9 | 813.2 |
| 55° | 691.7 | 706.1 | 726.4 | 743.8 | 749.6 |
| 57.5° | 626.6 | 642.5 | 661.3 | 675.8 | 680.1 |
| 60° | 564.3 | 577.4 | 593.3 | 606.3 | 607.8 |
| 62.5° | 503.6 | 509.4 | 523.8 | 535.4 | 536.8 |
| 65° | 435.6 | 444.2 | 458.7 | 463.0 | 470.3 |
| 67.5° | 373.3 | 379.1 | 390.7 | 396.5 | 402.3 |
| 70° | 309.7 | 314.0 | 325.6 | 332.8 | 334.3 |
| 72.5° | 254.7 | 256.1 | 264.8 | 270.6 | 272.0 |
| 75° | 198.2 | 201.1 | 208.4 | 212.7 | 215.6 |
| 77.5° | 150.5 | 153.4 | 159.2 | 162.1 | 162.1 |
| 80° | 105.6 | 110.0 | 115.8 | 117.2 | 118.7 |
| 82.5° | 68.0 | 73.8 | 78.1 | 79.6 | 76.7 |
| 85° | 36.2 | 43.4 | 43.4 | 40.5 | 42.0 |
| 87.5° | 13.0 | 15.9 | 17.4 | 18.8 | 18.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)