

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: P258386

Luminaire Tested: **D3X-WD-50L935-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-50L935-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3500 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

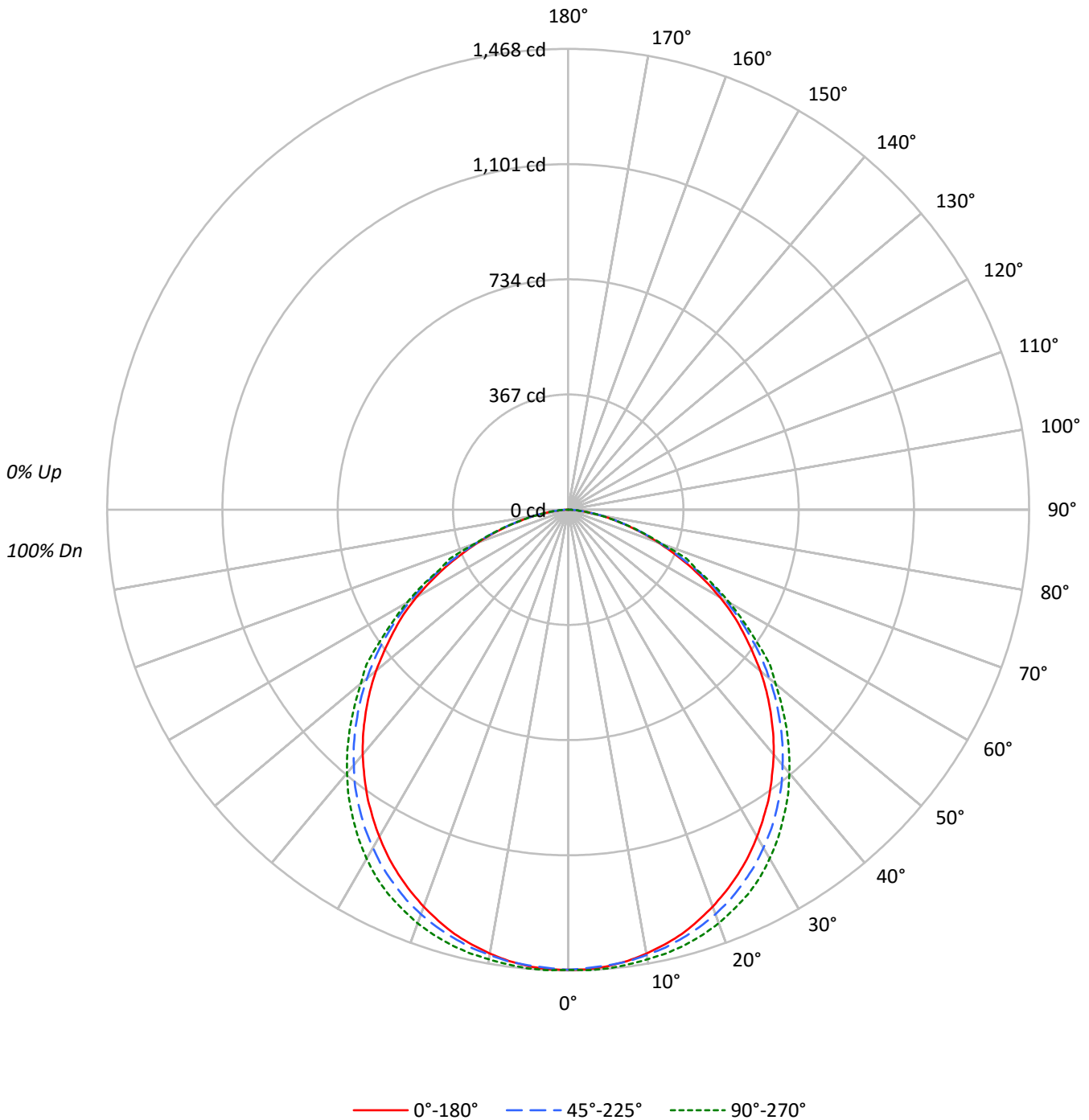
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 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 | 48 | 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 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1972 | 1972 | 1972 |
| 5° | 1972 | 1968 | 1981 |
| 10° | 1962 | 1968 | 1987 |
| 15° | 1949 | 1967 | 2000 |
| 20° | 1927 | 1963 | 2007 |
| 25° | 1901 | 1951 | 2008 |
| 30° | 1869 | 1933 | 1994 |
| 35° | 1833 | 1904 | 1965 |
| 40° | 1789 | 1865 | 1925 |
| 45° | 1734 | 1814 | 1871 |
| 50° | 1671 | 1751 | 1804 |
| 55° | 1595 | 1668 | 1717 |
| 60° | 1503 | 1560 | 1598 |
| 65° | 1365 | 1410 | 1437 |
| 70° | 1199 | 1226 | 1243 |
| 75° | 1012 | 1027 | 1034 |
| 80° | 809 | 820 | 798 |
| 85° | 545 | 567 | 545 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.9 | 3.5 |
| 10°-20° | 399.4 | 10.2 |
| 20°-30° | 606.0 | 15.4 |
| 30°-40° | 723.5 | 18.4 |
| 40°-50° | 732.4 | 18.6 |
| 50°-60° | 633.1 | 16.1 |
| 60°-70° | 438.8 | 11.2 |
| 70°-80° | 212.3 | 5.4 |
| 80°-90° | 46.7 | 1.2 |
| 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° | 1144.3 | 29.1 |
| 0°-40° | 1867.7 | 47.5 |
| 0°-60° | 3233.3 | 82.2 |
| 0°-90° | 3931.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3931.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1466 | 1466 | 1466 | 1466 | 1466 | |
| 5° | 1460 | 1458 | 1457 | 1464 | 1467 | 139 |
| 15° | 1399 | 1402 | 1412 | 1429 | 1436 | 394 |
| 25° | 1281 | 1289 | 1314 | 1341 | 1353 | 590 |
| 35° | 1116 | 1126 | 1159 | 1189 | 1196 | 697 |
| 45° | 911 | 924 | 954 | 977 | 983 | 703 |
| 55° | 680 | 687 | 711 | 740 | 732 | 608 |
| 65° | 429 | 433 | 443 | 450 | 451 | 424 |
| 75° | 195 | 196 | 198 | 196 | 199 | 209 |
| 85° | 35 | 38 | 37 | 35 | 35 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1465.5 | 1465.5 | 1465.5 | 1465.5 | 1465.5 |
| 2.5° | 1465.5 | 1464.1 | 1461.2 | 1465.5 | 1468.3 |
| 5° | 1459.8 | 1458.4 | 1457.0 | 1464.1 | 1466.9 |
| 7.5° | 1449.9 | 1449.9 | 1451.4 | 1458.4 | 1461.2 |
| 10° | 1435.8 | 1437.3 | 1440.1 | 1451.4 | 1454.2 |
| 12.5° | 1418.9 | 1421.7 | 1428.8 | 1441.5 | 1447.1 |
| 15° | 1399.2 | 1402.0 | 1411.9 | 1428.8 | 1435.8 |
| 17.5° | 1373.8 | 1379.4 | 1393.5 | 1413.3 | 1420.3 |
| 20° | 1345.6 | 1352.6 | 1371.0 | 1393.5 | 1402.0 |
| 22.5° | 1314.5 | 1321.6 | 1345.6 | 1369.6 | 1378.0 |
| 25° | 1280.7 | 1289.2 | 1314.5 | 1341.3 | 1352.6 |
| 27.5° | 1244.0 | 1253.9 | 1282.1 | 1310.3 | 1321.6 |
| 30° | 1203.1 | 1214.4 | 1244.0 | 1273.6 | 1283.5 |
| 32.5° | 1159.4 | 1170.7 | 1204.5 | 1232.7 | 1242.6 |
| 35° | 1115.7 | 1125.5 | 1159.4 | 1189.0 | 1196.1 |
| 37.5° | 1066.3 | 1077.6 | 1114.3 | 1139.6 | 1149.5 |
| 40° | 1018.3 | 1029.6 | 1062.1 | 1087.5 | 1095.9 |
| 42.5° | 966.2 | 977.4 | 1009.9 | 1033.9 | 1040.9 |
| 45° | 911.2 | 923.8 | 953.5 | 977.4 | 983.1 |
| 47.5° | 856.1 | 866.0 | 897.1 | 918.2 | 922.4 |
| 50° | 798.3 | 808.2 | 836.4 | 857.6 | 861.8 |
| 52.5° | 737.7 | 753.2 | 775.8 | 791.3 | 809.6 |
| 55° | 679.8 | 686.9 | 710.9 | 740.5 | 732.0 |
| 57.5° | 622.0 | 626.2 | 646.0 | 658.7 | 661.5 |
| 60° | 558.5 | 564.2 | 579.7 | 586.7 | 593.8 |
| 62.5° | 492.2 | 496.5 | 514.8 | 521.9 | 524.7 |
| 65° | 428.8 | 433.0 | 442.9 | 449.9 | 451.3 |
| 67.5° | 363.9 | 368.1 | 376.6 | 382.2 | 407.6 |
| 70° | 304.7 | 307.5 | 311.7 | 323.0 | 315.9 |
| 72.5° | 248.2 | 249.7 | 253.9 | 253.9 | 255.3 |
| 75° | 194.6 | 196.1 | 197.5 | 196.1 | 198.9 |
| 77.5° | 145.3 | 148.1 | 149.5 | 148.1 | 146.7 |
| 80° | 104.4 | 107.2 | 105.8 | 103.0 | 103.0 |
| 82.5° | 67.7 | 69.1 | 67.7 | 66.3 | 66.3 |
| 85° | 35.3 | 38.1 | 36.7 | 35.3 | 35.3 |
| 87.5° | 12.7 | 14.1 | 15.5 | 16.9 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)