

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: P258409

Luminaire Tested: **D3X-WD-74L930-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258409
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-74L930-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5634.8 lumens
Efficiency: N/A
Efficacy: 91.5 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

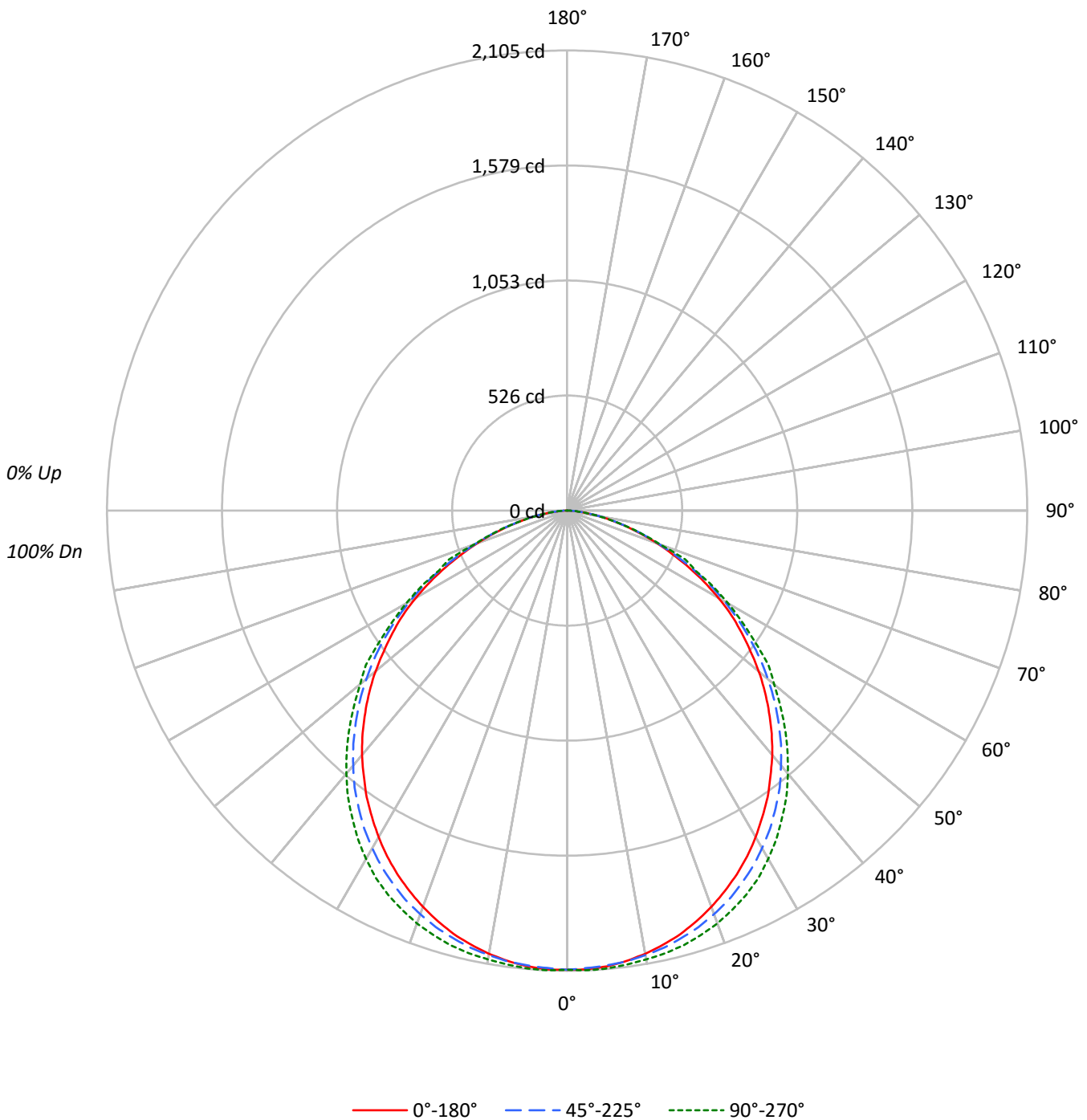
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 2826 | 2826 | 2826 |
| 5° | 2826 | 2821 | 2840 |
| 10° | 2812 | 2820 | 2848 |
| 15° | 2794 | 2819 | 2867 |
| 20° | 2762 | 2814 | 2877 |
| 25° | 2725 | 2797 | 2878 |
| 30° | 2679 | 2770 | 2858 |
| 35° | 2627 | 2730 | 2816 |
| 40° | 2564 | 2674 | 2759 |
| 45° | 2485 | 2601 | 2681 |
| 50° | 2395 | 2510 | 2586 |
| 55° | 2286 | 2390 | 2461 |
| 60° | 2154 | 2236 | 2291 |
| 65° | 1957 | 2021 | 2060 |
| 70° | 1718 | 1758 | 1782 |
| 75° | 1450 | 1471 | 1482 |
| 80° | 1159 | 1175 | 1144 |
| 85° | 780 | 812 | 780 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 199.1 | 3.5 |
| 10°-20° | 572.5 | 10.2 |
| 20°-30° | 868.6 | 15.4 |
| 30°-40° | 1037.0 | 18.4 |
| 40°-50° | 1049.9 | 18.6 |
| 50°-60° | 907.5 | 16.1 |
| 60°-70° | 629.0 | 11.2 |
| 70°-80° | 304.3 | 5.4 |
| 80°-90° | 66.9 | 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° | 1640.2 | 29.1 |
| 0°-40° | 2677.2 | 47.5 |
| 0°-60° | 4634.6 | 82.2 |
| 0°-90° | 5634.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5634.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2101 | 2101 | 2101 | 2101 | 2101 | |
| 5° | 2092 | 2090 | 2088 | 2099 | 2103 | 199 |
| 15° | 2006 | 2010 | 2024 | 2048 | 2058 | 565 |
| 25° | 1836 | 1848 | 1884 | 1923 | 1939 | 845 |
| 35° | 1599 | 1613 | 1662 | 1704 | 1714 | 999 |
| 45° | 1306 | 1324 | 1367 | 1401 | 1409 | 1007 |
| 55° | 974 | 985 | 1019 | 1061 | 1049 | 871 |
| 65° | 615 | 621 | 635 | 645 | 647 | 608 |
| 75° | 279 | 281 | 283 | 281 | 285 | 299 |
| 85° | 50 | 55 | 53 | 50 | 50 | 65 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2100.6 | 2100.6 | 2100.6 | 2100.6 | 2100.6 |
| 2.5° | 2100.6 | 2098.6 | 2094.6 | 2100.6 | 2104.7 |
| 5° | 2092.5 | 2090.5 | 2088.5 | 2098.6 | 2102.6 |
| 7.5° | 2078.4 | 2078.4 | 2080.4 | 2090.5 | 2094.6 |
| 10° | 2058.2 | 2060.2 | 2064.2 | 2080.4 | 2084.4 |
| 12.5° | 2033.9 | 2037.9 | 2048.1 | 2066.3 | 2074.3 |
| 15° | 2005.6 | 2009.6 | 2023.8 | 2048.1 | 2058.2 |
| 17.5° | 1969.2 | 1977.3 | 1997.5 | 2025.8 | 2035.9 |
| 20° | 1928.8 | 1938.9 | 1965.2 | 1997.5 | 2009.6 |
| 22.5° | 1884.3 | 1894.4 | 1928.8 | 1963.1 | 1975.3 |
| 25° | 1835.8 | 1847.9 | 1884.3 | 1922.7 | 1938.9 |
| 27.5° | 1783.2 | 1797.4 | 1837.8 | 1878.2 | 1894.4 |
| 30° | 1724.6 | 1740.7 | 1783.2 | 1825.7 | 1839.8 |
| 32.5° | 1661.9 | 1678.1 | 1726.6 | 1767.0 | 1781.2 |
| 35° | 1599.2 | 1613.4 | 1661.9 | 1704.4 | 1714.5 |
| 37.5° | 1528.5 | 1544.6 | 1597.2 | 1633.6 | 1647.7 |
| 40° | 1459.7 | 1475.9 | 1522.4 | 1558.8 | 1570.9 |
| 42.5° | 1384.9 | 1401.1 | 1447.6 | 1482.0 | 1492.1 |
| 45° | 1306.1 | 1324.3 | 1366.7 | 1401.1 | 1409.2 |
| 47.5° | 1227.2 | 1241.4 | 1285.8 | 1316.2 | 1322.2 |
| 50° | 1144.3 | 1158.5 | 1198.9 | 1229.2 | 1235.3 |
| 52.5° | 1057.4 | 1079.6 | 1112.0 | 1134.2 | 1160.5 |
| 55° | 974.5 | 984.6 | 1019.0 | 1061.4 | 1049.3 |
| 57.5° | 891.6 | 897.7 | 926.0 | 944.2 | 948.2 |
| 60° | 800.6 | 808.7 | 830.9 | 841.1 | 851.2 |
| 62.5° | 705.6 | 711.7 | 737.9 | 748.1 | 752.1 |
| 65° | 614.6 | 620.7 | 634.8 | 644.9 | 647.0 |
| 67.5° | 521.6 | 527.7 | 539.8 | 547.9 | 584.3 |
| 70° | 436.7 | 440.7 | 446.8 | 463.0 | 452.9 |
| 72.5° | 355.8 | 357.9 | 363.9 | 363.9 | 365.9 |
| 75° | 279.0 | 281.0 | 283.0 | 281.0 | 285.1 |
| 77.5° | 208.2 | 212.3 | 214.3 | 212.3 | 210.3 |
| 80° | 149.6 | 153.7 | 151.6 | 147.6 | 147.6 |
| 82.5° | 97.0 | 99.1 | 97.0 | 95.0 | 95.0 |
| 85° | 50.5 | 54.6 | 52.6 | 50.5 | 50.5 |
| 87.5° | 18.2 | 20.2 | 22.2 | 24.3 | 24.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)