

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: P258468

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258468
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-74L930-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 3000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5644.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

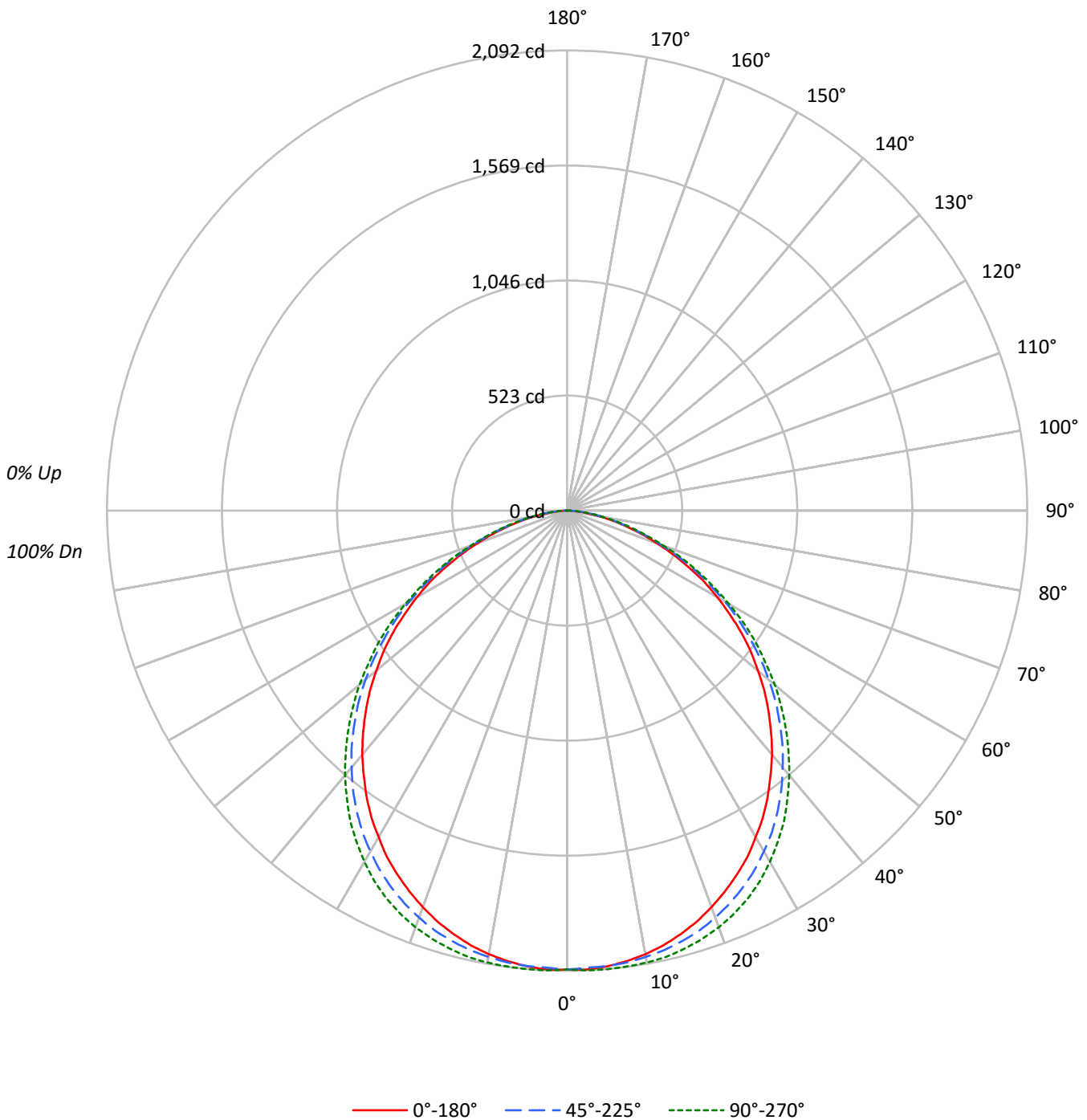
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258468

CATALOG NUMBER: D3X-WG-74L930-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258468

CATALOG NUMBER: D3X-WG-74L930-LD5-UNV-24-T1-STD

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° | 2807 | 2807 | 2807 |
| 5° | 2810 | 2807 | 2826 |
| 10° | 2798 | 2815 | 2851 |
| 15° | 2777 | 2822 | 2873 |
| 20° | 2747 | 2820 | 2886 |
| 25° | 2710 | 2806 | 2887 |
| 30° | 2664 | 2780 | 2865 |
| 35° | 2610 | 2740 | 2826 |
| 40° | 2546 | 2677 | 2759 |
| 45° | 2466 | 2601 | 2678 |
| 50° | 2370 | 2505 | 2582 |
| 55° | 2267 | 2381 | 2457 |
| 60° | 2122 | 2231 | 2285 |
| 65° | 1938 | 2040 | 2092 |
| 70° | 1702 | 1790 | 1837 |
| 75° | 1440 | 1513 | 1566 |
| 80° | 1144 | 1253 | 1285 |
| 85° | 780 | 937 | 905 |



TEST NUMBER: P258468

CATALOG NUMBER: D3X-WG-74L930-LD5-UNV-24-T1-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 198.2 | 3.5 |
| 10°-20° | 572.4 | 10.1 |
| 20°-30° | 869.8 | 15.4 |
| 30°-40° | 1037.9 | 18.4 |
| 40°-50° | 1048.2 | 18.6 |
| 50°-60° | 903.1 | 16.0 |
| 60°-70° | 629.6 | 11.2 |
| 70°-80° | 312.0 | 5.5 |
| 80°-90° | 72.8 | 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° | 1640.4 | 29.1 |
| 0°-40° | 2678.3 | 47.5 |
| 0°-60° | 4629.7 | 82.0 |
| 0°-90° | 5644.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5644.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2086 | 2086 | 2086 | 2086 | 2086 | |
| 5° | 2080 | 2078 | 2078 | 2088 | 2092 | 198 |
| 15° | 1994 | 2004 | 2026 | 2052 | 2062 | 562 |
| 25° | 1826 | 1850 | 1890 | 1929 | 1945 | 841 |
| 35° | 1589 | 1615 | 1668 | 1706 | 1720 | 993 |
| 45° | 1296 | 1324 | 1367 | 1399 | 1407 | 999 |
| 55° | 966 | 987 | 1015 | 1039 | 1047 | 861 |
| 65° | 609 | 621 | 641 | 647 | 657 | 604 |
| 75° | 277 | 281 | 291 | 297 | 301 | 299 |
| 85° | 50 | 61 | 61 | 57 | 59 | 65 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P258468

CATALOG NUMBER: D3X-WG-74L930-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2086.5 | 2086.5 | 2086.5 | 2086.5 | 2086.5 |
| 2.5° | 2088.5 | 2084.4 | 2080.4 | 2088.5 | 2092.5 |
| 5° | 2080.4 | 2078.4 | 2078.4 | 2088.5 | 2092.5 |
| 7.5° | 2066.3 | 2066.3 | 2072.3 | 2086.5 | 2090.5 |
| 10° | 2048.1 | 2052.1 | 2060.2 | 2080.4 | 2086.5 |
| 12.5° | 2023.8 | 2031.9 | 2046.0 | 2070.3 | 2078.4 |
| 15° | 1993.5 | 2003.6 | 2025.8 | 2052.1 | 2062.2 |
| 17.5° | 1959.1 | 1973.3 | 2001.6 | 2031.9 | 2042.0 |
| 20° | 1918.7 | 1936.9 | 1969.2 | 2003.6 | 2015.7 |
| 22.5° | 1874.2 | 1896.4 | 1932.8 | 1969.2 | 1983.4 |
| 25° | 1825.7 | 1849.9 | 1890.4 | 1928.8 | 1944.9 |
| 27.5° | 1775.1 | 1799.4 | 1843.9 | 1882.3 | 1898.4 |
| 30° | 1714.5 | 1742.8 | 1789.3 | 1829.7 | 1843.9 |
| 32.5° | 1655.8 | 1684.1 | 1732.7 | 1769.1 | 1783.2 |
| 35° | 1589.1 | 1615.4 | 1668.0 | 1706.4 | 1720.5 |
| 37.5° | 1518.4 | 1548.7 | 1599.2 | 1633.6 | 1645.7 |
| 40° | 1449.6 | 1475.9 | 1524.4 | 1558.8 | 1570.9 |
| 42.5° | 1372.8 | 1401.1 | 1449.6 | 1479.9 | 1490.0 |
| 45° | 1296.0 | 1324.3 | 1366.7 | 1399.1 | 1407.2 |
| 47.5° | 1217.1 | 1243.4 | 1285.8 | 1312.1 | 1320.2 |
| 50° | 1132.2 | 1156.5 | 1196.9 | 1223.2 | 1233.3 |
| 52.5° | 1051.3 | 1073.6 | 1107.9 | 1130.2 | 1136.2 |
| 55° | 966.4 | 986.6 | 1014.9 | 1039.2 | 1047.3 |
| 57.5° | 875.4 | 897.7 | 924.0 | 944.2 | 950.2 |
| 60° | 788.5 | 806.7 | 828.9 | 847.1 | 849.1 |
| 62.5° | 703.6 | 711.7 | 731.9 | 748.1 | 750.1 |
| 65° | 608.6 | 620.7 | 640.9 | 647.0 | 657.1 |
| 67.5° | 521.6 | 529.7 | 545.9 | 554.0 | 562.1 |
| 70° | 432.7 | 438.7 | 454.9 | 465.0 | 467.0 |
| 72.5° | 355.8 | 357.9 | 370.0 | 378.1 | 380.1 |
| 75° | 277.0 | 281.0 | 291.1 | 297.2 | 301.2 |
| 77.5° | 210.3 | 214.3 | 222.4 | 226.4 | 226.4 |
| 80° | 147.6 | 153.7 | 161.7 | 163.8 | 165.8 |
| 82.5° | 95.0 | 103.1 | 109.2 | 111.2 | 107.2 |
| 85° | 50.5 | 60.7 | 60.7 | 56.6 | 58.6 |
| 87.5° | 18.2 | 22.2 | 24.3 | 26.3 | 26.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)