

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: P297515

Luminaire Tested: **D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

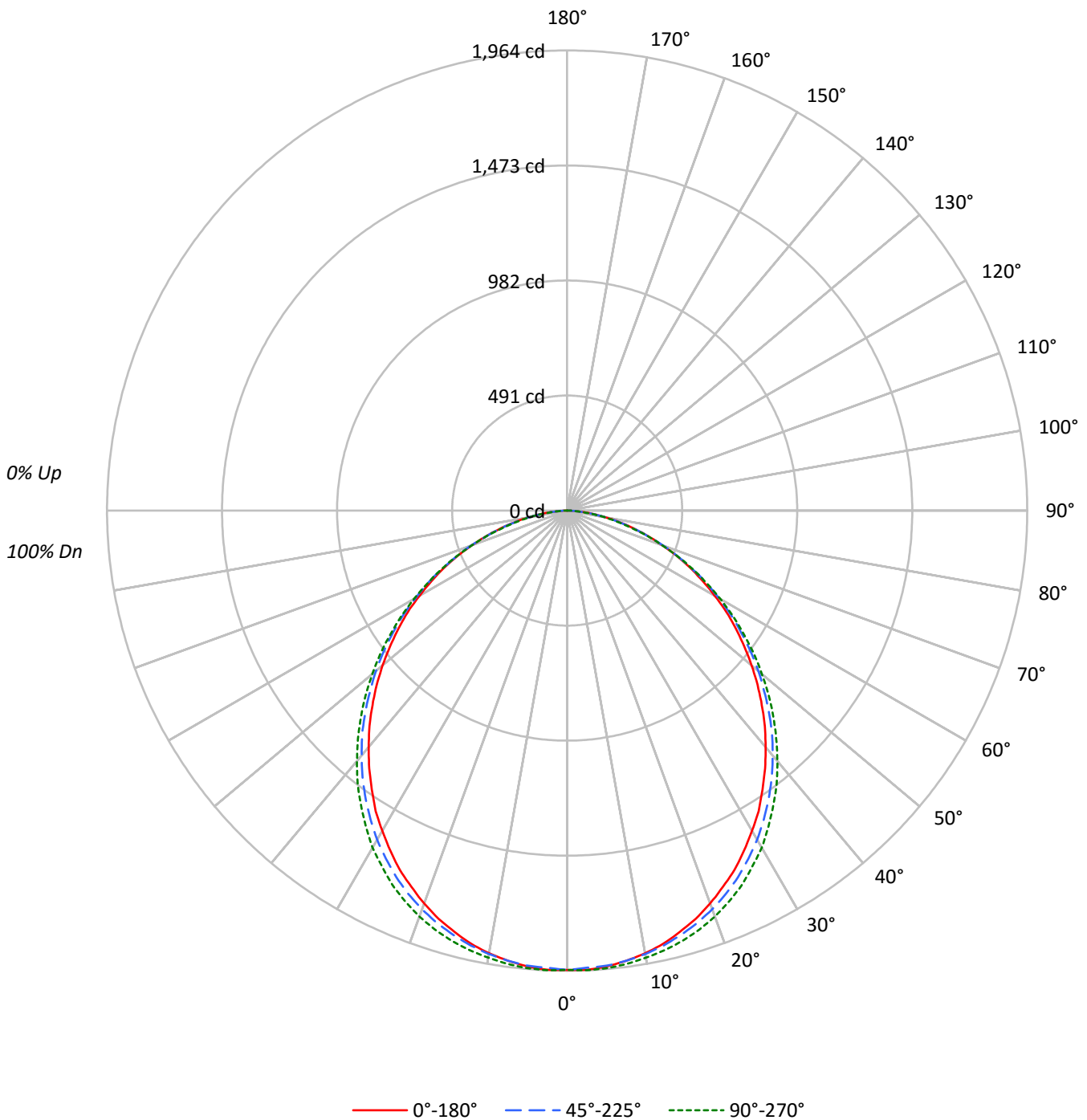
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297515

CATALOG NUMBER: D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297515

CATALOG NUMBER: D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K

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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 100 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | 60 | | | |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | 39 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2637 | 2637 | 2637 |
| 5° | 2638 | 2633 | 2648 |
| 10° | 2621 | 2626 | 2647 |
| 15° | 2593 | 2612 | 2648 |
| 20° | 2556 | 2593 | 2640 |
| 25° | 2511 | 2562 | 2619 |
| 30° | 2452 | 2519 | 2581 |
| 35° | 2387 | 2464 | 2521 |
| 40° | 2315 | 2397 | 2452 |
| 45° | 2237 | 2319 | 2369 |
| 50° | 2151 | 2231 | 2271 |
| 55° | 2061 | 2126 | 2159 |
| 60° | 1958 | 2009 | 2032 |
| 65° | 1846 | 1874 | 1885 |
| 70° | 1694 | 1714 | 1694 |
| 75° | 1525 | 1516 | 1471 |
| 80° | 1292 | 1278 | 1237 |
| 85° | 965 | 939 | 831 |



TEST NUMBER: P297515

CATALOG NUMBER: D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.6 | 3.6 |
| 10°-20° | 530.2 | 10.3 |
| 20°-30° | 794.9 | 15.4 |
| 30°-40° | 936.1 | 18.2 |
| 40°-50° | 936.3 | 18.2 |
| 50°-60° | 807.8 | 15.7 |
| 60°-70° | 581.3 | 11.3 |
| 70°-80° | 308.3 | 6.0 |
| 80°-90° | 73.5 | 1.4 |
| 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° | 1510.6 | 29.3 |
| 0°-40° | 2446.8 | 47.5 |
| 0°-60° | 4190.8 | 81.3 |
| 0°-90° | 5154.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5154.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1960 | 1960 | 1960 | 1960 | 1960 | |
| 5° | 1953 | 1952 | 1950 | 1957 | 1960 | 185 |
| 15° | 1861 | 1866 | 1875 | 1894 | 1901 | 525 |
| 25° | 1691 | 1702 | 1726 | 1755 | 1764 | 778 |
| 35° | 1453 | 1471 | 1500 | 1526 | 1535 | 909 |
| 45° | 1175 | 1191 | 1219 | 1240 | 1245 | 907 |
| 55° | 878 | 887 | 906 | 922 | 920 | 786 |
| 65° | 580 | 582 | 589 | 592 | 592 | 574 |
| 75° | 293 | 290 | 292 | 285 | 283 | 312 |
| 85° | 62 | 62 | 61 | 56 | 54 | 76 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297515

CATALOG NUMBER: D3X-WO-60L92765-LD5-UNV-24-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1960.2 | 1960.2 | 1960.2 | 1960.2 | 1960.2 |
| 2.5° | 1961.9 | 1958.4 | 1953.2 | 1960.2 | 1963.6 |
| 5° | 1953.2 | 1951.5 | 1949.7 | 1956.7 | 1960.2 |
| 7.5° | 1937.6 | 1939.3 | 1937.6 | 1948.0 | 1951.5 |
| 10° | 1918.5 | 1920.2 | 1922.0 | 1934.1 | 1937.6 |
| 12.5° | 1894.2 | 1895.9 | 1901.1 | 1916.8 | 1922.0 |
| 15° | 1861.2 | 1866.4 | 1875.1 | 1894.2 | 1901.1 |
| 17.5° | 1826.5 | 1833.4 | 1845.6 | 1868.1 | 1875.1 |
| 20° | 1784.8 | 1793.5 | 1810.8 | 1835.2 | 1843.8 |
| 22.5° | 1737.9 | 1746.6 | 1770.9 | 1797.0 | 1805.6 |
| 25° | 1691.1 | 1701.5 | 1725.8 | 1755.3 | 1764.0 |
| 27.5° | 1635.5 | 1649.4 | 1675.4 | 1704.9 | 1711.9 |
| 30° | 1578.2 | 1590.4 | 1621.6 | 1649.4 | 1661.5 |
| 32.5° | 1520.9 | 1533.1 | 1562.6 | 1590.4 | 1599.0 |
| 35° | 1453.2 | 1470.6 | 1500.1 | 1526.1 | 1534.8 |
| 37.5° | 1387.2 | 1402.8 | 1434.1 | 1460.1 | 1468.8 |
| 40° | 1317.8 | 1331.7 | 1364.6 | 1389.0 | 1395.9 |
| 42.5° | 1248.3 | 1262.2 | 1295.2 | 1314.3 | 1321.2 |
| 45° | 1175.4 | 1191.0 | 1218.8 | 1239.6 | 1244.9 |
| 47.5° | 1102.5 | 1114.6 | 1140.7 | 1159.8 | 1166.7 |
| 50° | 1027.8 | 1040.0 | 1066.0 | 1081.6 | 1085.1 |
| 52.5° | 953.2 | 961.9 | 986.2 | 1000.0 | 1005.3 |
| 55° | 878.5 | 887.2 | 906.3 | 921.9 | 920.2 |
| 57.5° | 807.3 | 810.8 | 829.9 | 840.3 | 840.3 |
| 60° | 727.5 | 730.9 | 746.6 | 753.5 | 755.2 |
| 62.5° | 652.8 | 658.0 | 670.2 | 671.9 | 671.9 |
| 65° | 579.9 | 581.6 | 588.6 | 592.0 | 592.0 |
| 67.5° | 507.0 | 505.2 | 512.2 | 512.2 | 510.4 |
| 70° | 430.6 | 434.0 | 435.8 | 432.3 | 430.6 |
| 72.5° | 361.1 | 359.4 | 359.4 | 357.7 | 357.7 |
| 75° | 293.4 | 289.9 | 291.7 | 284.7 | 283.0 |
| 77.5° | 230.9 | 225.7 | 224.0 | 220.5 | 217.0 |
| 80° | 166.7 | 166.7 | 164.9 | 161.5 | 159.7 |
| 82.5° | 111.1 | 111.1 | 109.4 | 105.9 | 102.4 |
| 85° | 62.5 | 62.5 | 60.8 | 55.6 | 53.8 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)