

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: P296968

Luminaire Tested: **D3X-WD-67L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-67L92765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5901.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

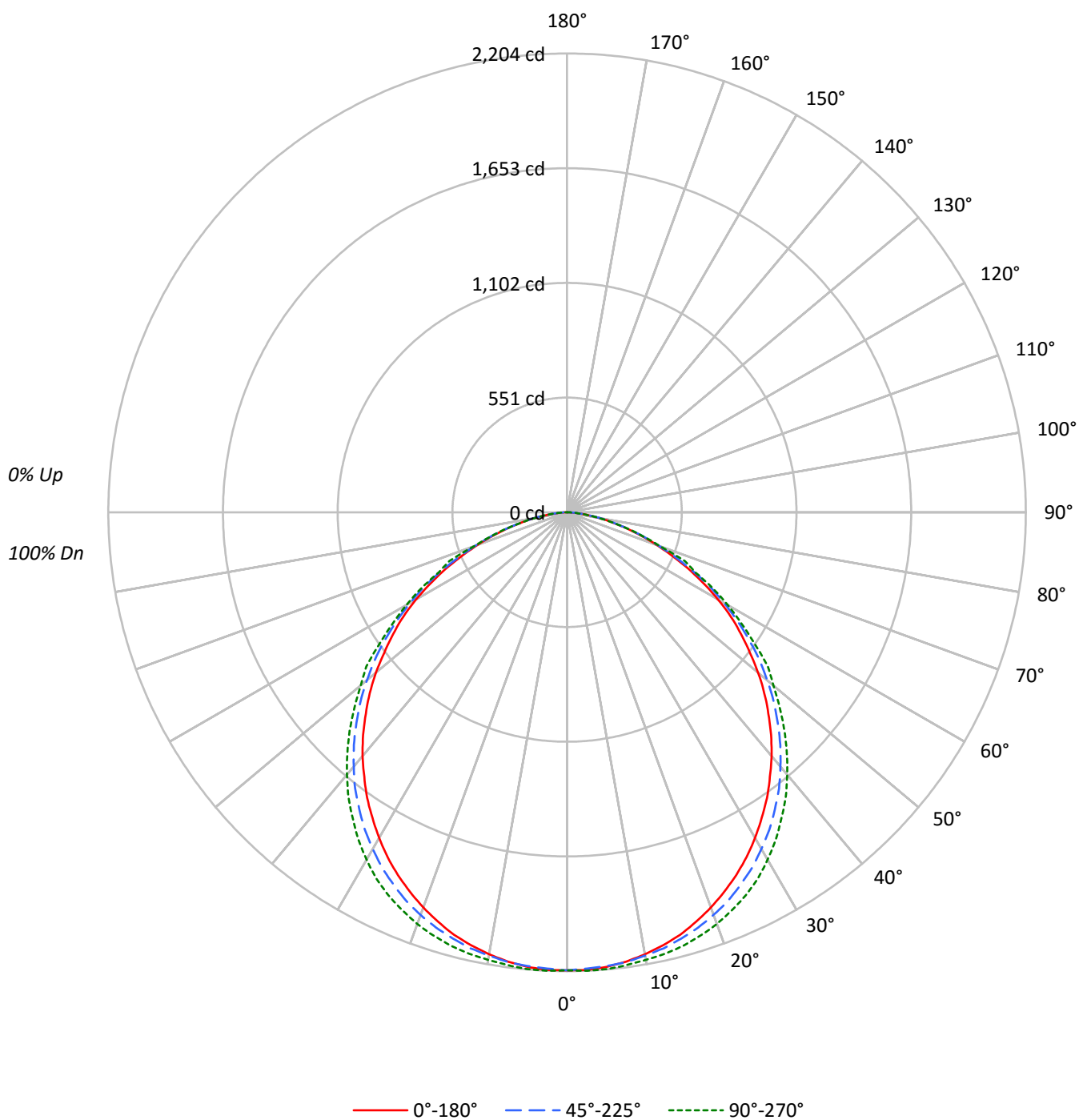
Input Watts (W): 50
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 |
| RCR | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | | 94 | 92 | 90 | | 91 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | | 83 | 79 | 75 | | 80 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | | 74 | 68 | 64 | | 71 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | | 59 | 53 | 48 | | 57 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | | 54 | 47 | 42 | | 52 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | | 49 | 42 | 37 | | 48 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | | 45 | 38 | 33 | | 44 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | | 41 | 35 | 30 | | 40 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | | 38 | 32 | 27 | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2960 | 2960 | 2960 |
| 5° | 2960 | 2954 | 2974 |
| 10° | 2945 | 2953 | 2982 |
| 15° | 2926 | 2952 | 3002 |
| 20° | 2892 | 2947 | 3013 |
| 25° | 2854 | 2930 | 3014 |
| 30° | 2806 | 2901 | 2993 |
| 35° | 2751 | 2859 | 2949 |
| 40° | 2685 | 2800 | 2889 |
| 45° | 2603 | 2723 | 2808 |
| 50° | 2509 | 2628 | 2708 |
| 55° | 2394 | 2503 | 2578 |
| 60° | 2256 | 2342 | 2399 |
| 65° | 2049 | 2117 | 2157 |
| 70° | 1799 | 1841 | 1866 |
| 75° | 1519 | 1541 | 1552 |
| 80° | 1214 | 1230 | 1198 |
| 85° | 817 | 849 | 817 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.5 | 3.5 |
| 10°-20° | 599.5 | 10.2 |
| 20°-30° | 909.7 | 15.4 |
| 30°-40° | 1086.0 | 18.4 |
| 40°-50° | 1099.5 | 18.6 |
| 50°-60° | 950.4 | 16.1 |
| 60°-70° | 658.7 | 11.2 |
| 70°-80° | 318.7 | 5.4 |
| 80°-90° | 70.1 | 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° | 1717.7 | 29.1 |
| 0°-40° | 2803.7 | 47.5 |
| 0°-60° | 4853.5 | 82.2 |
| 0°-90° | 5901.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5901.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2200 | 2200 | 2200 | 2200 | 2200 | |
| 5° | 2191 | 2189 | 2187 | 2198 | 2202 | 208 |
| 15° | 2100 | 2105 | 2119 | 2145 | 2155 | 592 |
| 25° | 1922 | 1935 | 1973 | 2014 | 2030 | 885 |
| 35° | 1675 | 1690 | 1740 | 1785 | 1796 | 1046 |
| 45° | 1368 | 1387 | 1431 | 1467 | 1476 | 1055 |
| 55° | 1020 | 1031 | 1067 | 1112 | 1099 | 912 |
| 65° | 644 | 650 | 665 | 675 | 678 | 637 |
| 75° | 292 | 294 | 296 | 294 | 298 | 314 |
| 85° | 53 | 57 | 55 | 53 | 53 | 69 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2199.9 | 2199.9 | 2199.9 | 2199.9 | 2199.9 |
| 2.5° | 2199.9 | 2197.7 | 2193.5 | 2199.9 | 2204.1 |
| 5° | 2191.4 | 2189.3 | 2187.1 | 2197.7 | 2202.0 |
| 7.5° | 2176.6 | 2176.6 | 2178.7 | 2189.3 | 2193.5 |
| 10° | 2155.4 | 2157.5 | 2161.7 | 2178.7 | 2182.9 |
| 12.5° | 2130.0 | 2134.2 | 2144.8 | 2163.9 | 2172.3 |
| 15° | 2100.3 | 2104.6 | 2119.4 | 2144.8 | 2155.4 |
| 17.5° | 2062.2 | 2070.7 | 2091.9 | 2121.5 | 2132.1 |
| 20° | 2019.9 | 2030.5 | 2058.0 | 2091.9 | 2104.6 |
| 22.5° | 1973.3 | 1983.9 | 2019.9 | 2055.9 | 2068.6 |
| 25° | 1922.5 | 1935.2 | 1973.3 | 2013.5 | 2030.5 |
| 27.5° | 1867.4 | 1882.3 | 1924.6 | 1967.0 | 1983.9 |
| 30° | 1806.0 | 1823.0 | 1867.4 | 1911.9 | 1926.7 |
| 32.5° | 1740.4 | 1757.3 | 1808.2 | 1850.5 | 1865.3 |
| 35° | 1674.8 | 1689.6 | 1740.4 | 1784.9 | 1795.5 |
| 37.5° | 1600.7 | 1617.6 | 1672.6 | 1710.8 | 1725.6 |
| 40° | 1528.7 | 1545.6 | 1594.3 | 1632.4 | 1645.1 |
| 42.5° | 1450.3 | 1467.3 | 1516.0 | 1552.0 | 1562.6 |
| 45° | 1367.8 | 1386.8 | 1431.3 | 1467.3 | 1475.7 |
| 47.5° | 1285.2 | 1300.0 | 1346.6 | 1378.3 | 1384.7 |
| 50° | 1198.4 | 1213.2 | 1255.5 | 1287.3 | 1293.7 |
| 52.5° | 1107.3 | 1130.6 | 1164.5 | 1187.8 | 1215.3 |
| 55° | 1020.5 | 1031.1 | 1067.1 | 1111.6 | 1098.9 |
| 57.5° | 933.7 | 940.1 | 969.7 | 988.8 | 993.0 |
| 60° | 838.4 | 846.9 | 870.2 | 880.8 | 891.4 |
| 62.5° | 738.9 | 745.3 | 772.8 | 783.4 | 787.6 |
| 65° | 643.7 | 650.0 | 664.8 | 675.4 | 677.5 |
| 67.5° | 546.3 | 552.6 | 565.3 | 573.8 | 611.9 |
| 70° | 457.3 | 461.6 | 467.9 | 484.9 | 474.3 |
| 72.5° | 372.6 | 374.8 | 381.1 | 381.1 | 383.2 |
| 75° | 292.2 | 294.3 | 296.4 | 294.3 | 298.5 |
| 77.5° | 218.1 | 222.3 | 224.4 | 222.3 | 220.2 |
| 80° | 156.7 | 160.9 | 158.8 | 154.6 | 154.6 |
| 82.5° | 101.6 | 103.7 | 101.6 | 99.5 | 99.5 |
| 85° | 52.9 | 57.2 | 55.0 | 52.9 | 52.9 |
| 87.5° | 19.1 | 21.2 | 23.3 | 25.4 | 25.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)