

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: P296975

Luminaire Tested: **D3X-WD-74L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296975
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-74L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

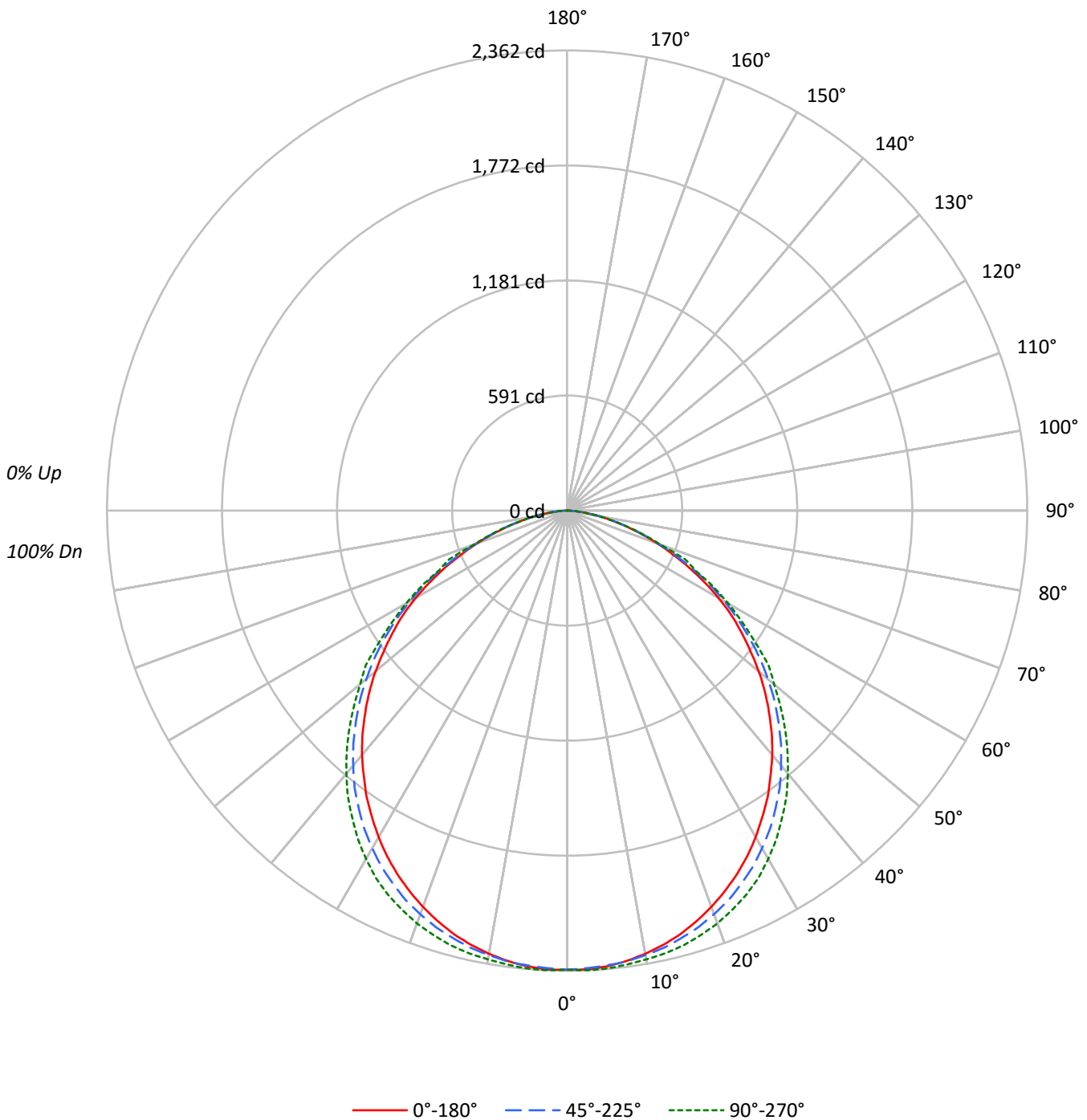
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3172 | 3172 | 3172 |
| 5° | 3171 | 3165 | 3187 |
| 10° | 3155 | 3165 | 3196 |
| 15° | 3135 | 3163 | 3217 |
| 20° | 3099 | 3157 | 3229 |
| 25° | 3058 | 3139 | 3230 |
| 30° | 3007 | 3109 | 3207 |
| 35° | 2948 | 3063 | 3160 |
| 40° | 2877 | 3000 | 3096 |
| 45° | 2789 | 2918 | 3009 |
| 50° | 2688 | 2816 | 2902 |
| 55° | 2565 | 2682 | 2762 |
| 60° | 2418 | 2509 | 2570 |
| 65° | 2196 | 2268 | 2311 |
| 70° | 1928 | 1972 | 1999 |
| 75° | 1628 | 1651 | 1663 |
| 80° | 1301 | 1319 | 1283 |
| 85° | 875 | 911 | 875 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.4 | 3.5 |
| 10°-20° | 642.4 | 10.2 |
| 20°-30° | 974.7 | 15.4 |
| 30°-40° | 1163.7 | 18.4 |
| 40°-50° | 1178.1 | 18.6 |
| 50°-60° | 1018.3 | 16.1 |
| 60°-70° | 705.8 | 11.2 |
| 70°-80° | 341.5 | 5.4 |
| 80°-90° | 75.1 | 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° | 1840.5 | 29.1 |
| 0°-40° | 3004.2 | 47.5 |
| 0°-60° | 5200.6 | 82.2 |
| 0°-90° | 6323.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6323.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2357 | 2357 | 2357 | 2357 | 2357 | |
| 5° | 2348 | 2346 | 2344 | 2355 | 2359 | 223 |
| 15° | 2250 | 2255 | 2271 | 2298 | 2310 | 634 |
| 25° | 2060 | 2074 | 2114 | 2158 | 2176 | 949 |
| 35° | 1794 | 1810 | 1865 | 1912 | 1924 | 1121 |
| 45° | 1466 | 1486 | 1534 | 1572 | 1581 | 1130 |
| 55° | 1094 | 1105 | 1143 | 1191 | 1178 | 977 |
| 65° | 690 | 696 | 712 | 724 | 726 | 683 |
| 75° | 313 | 315 | 318 | 315 | 320 | 336 |
| 85° | 57 | 61 | 59 | 57 | 57 | 73 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 |
| 2.5° | 2357.2 | 2354.9 | 2350.4 | 2357.2 | 2361.7 |
| 5° | 2348.1 | 2345.8 | 2343.6 | 2354.9 | 2359.4 |
| 7.5° | 2332.2 | 2332.2 | 2334.5 | 2345.8 | 2350.4 |
| 10° | 2309.5 | 2311.8 | 2316.3 | 2334.5 | 2339.0 |
| 12.5° | 2282.3 | 2286.8 | 2298.2 | 2318.6 | 2327.7 |
| 15° | 2250.5 | 2255.1 | 2271.0 | 2298.2 | 2309.5 |
| 17.5° | 2209.7 | 2218.8 | 2241.5 | 2273.2 | 2284.6 |
| 20° | 2164.3 | 2175.7 | 2205.2 | 2241.5 | 2255.1 |
| 22.5° | 2114.4 | 2125.8 | 2164.3 | 2202.9 | 2216.5 |
| 25° | 2060.0 | 2073.6 | 2114.4 | 2157.5 | 2175.7 |
| 27.5° | 2001.0 | 2016.9 | 2062.2 | 2107.6 | 2125.8 |
| 30° | 1935.2 | 1953.3 | 2001.0 | 2048.6 | 2064.5 |
| 32.5° | 1864.9 | 1883.0 | 1937.5 | 1982.8 | 1998.7 |
| 35° | 1794.5 | 1810.4 | 1864.9 | 1912.5 | 1923.8 |
| 37.5° | 1715.1 | 1733.3 | 1792.3 | 1833.1 | 1849.0 |
| 40° | 1638.0 | 1656.1 | 1708.3 | 1749.2 | 1762.8 |
| 42.5° | 1554.1 | 1572.2 | 1624.4 | 1662.9 | 1674.3 |
| 45° | 1465.6 | 1486.0 | 1533.6 | 1572.2 | 1581.3 |
| 47.5° | 1377.1 | 1393.0 | 1442.9 | 1476.9 | 1483.7 |
| 50° | 1284.1 | 1300.0 | 1345.3 | 1379.4 | 1386.2 |
| 52.5° | 1186.5 | 1211.5 | 1247.8 | 1272.7 | 1302.2 |
| 55° | 1093.5 | 1104.9 | 1143.4 | 1191.1 | 1177.5 |
| 57.5° | 1000.5 | 1007.3 | 1039.1 | 1059.5 | 1064.0 |
| 60° | 898.4 | 907.5 | 932.4 | 943.8 | 955.1 |
| 62.5° | 791.8 | 798.6 | 828.1 | 839.4 | 844.0 |
| 65° | 689.7 | 696.5 | 712.4 | 723.7 | 726.0 |
| 67.5° | 585.3 | 592.1 | 605.7 | 614.8 | 655.7 |
| 70° | 490.0 | 494.6 | 501.4 | 519.5 | 508.2 |
| 72.5° | 399.3 | 401.6 | 408.4 | 408.4 | 410.6 |
| 75° | 313.1 | 315.3 | 317.6 | 315.3 | 319.9 |
| 77.5° | 233.7 | 238.2 | 240.5 | 238.2 | 235.9 |
| 80° | 167.9 | 172.4 | 170.2 | 165.6 | 165.6 |
| 82.5° | 108.9 | 111.2 | 108.9 | 106.6 | 106.6 |
| 85° | 56.7 | 61.3 | 59.0 | 56.7 | 56.7 |
| 87.5° | 20.4 | 22.7 | 25.0 | 27.2 | 27.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)