

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: P296745

Luminaire Tested: **D3X-WD-67L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296745
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-67L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6286.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

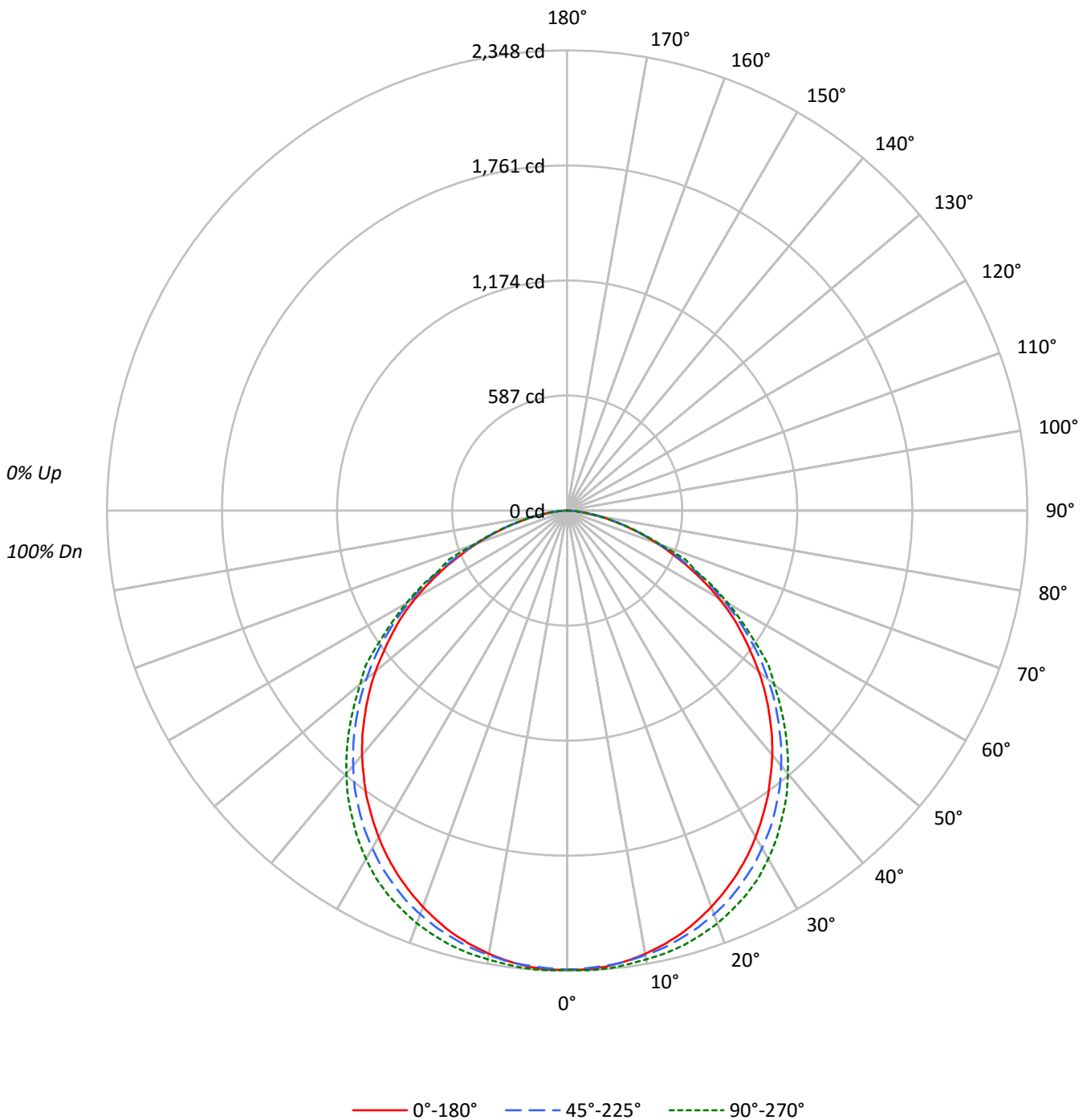
Input Watts (W): 48.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3153 | 3153 | 3153 |
| 5° | 3153 | 3147 | 3168 |
| 10° | 3137 | 3146 | 3177 |
| 15° | 3117 | 3145 | 3198 |
| 20° | 3081 | 3139 | 3210 |
| 25° | 3040 | 3121 | 3211 |
| 30° | 2989 | 3091 | 3189 |
| 35° | 2930 | 3045 | 3142 |
| 40° | 2860 | 2983 | 3078 |
| 45° | 2772 | 2901 | 2991 |
| 50° | 2672 | 2800 | 2885 |
| 55° | 2550 | 2666 | 2746 |
| 60° | 2403 | 2495 | 2555 |
| 65° | 2183 | 2255 | 2298 |
| 70° | 1917 | 1961 | 1987 |
| 75° | 1618 | 1642 | 1653 |
| 80° | 1293 | 1311 | 1275 |
| 85° | 871 | 905 | 871 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 222.1 | 3.5 |
| 10°-20° | 638.6 | 10.2 |
| 20°-30° | 969.0 | 15.4 |
| 30°-40° | 1156.9 | 18.4 |
| 40°-50° | 1171.2 | 18.6 |
| 50°-60° | 1012.4 | 16.1 |
| 60°-70° | 701.7 | 11.2 |
| 70°-80° | 339.5 | 5.4 |
| 80°-90° | 74.6 | 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° | 1829.7 | 29.1 |
| 0°-40° | 2986.6 | 47.5 |
| 0°-60° | 5170.2 | 82.2 |
| 0°-90° | 6286.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6286.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2343 | 2343 | 2343 | 2343 | 2343 | |
| 5° | 2334 | 2332 | 2330 | 2341 | 2346 | 222 |
| 15° | 2237 | 2242 | 2258 | 2285 | 2296 | 631 |
| 25° | 2048 | 2061 | 2102 | 2145 | 2163 | 943 |
| 35° | 1784 | 1800 | 1854 | 1901 | 1913 | 1114 |
| 45° | 1457 | 1477 | 1525 | 1563 | 1572 | 1124 |
| 55° | 1087 | 1098 | 1137 | 1184 | 1171 | 972 |
| 65° | 686 | 692 | 708 | 720 | 722 | 679 |
| 75° | 311 | 314 | 316 | 314 | 318 | 334 |
| 85° | 56 | 61 | 59 | 56 | 56 | 73 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P296745

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2343.4 | 2343.4 | 2343.4 | 2343.4 | 2343.4 |
| 2.5° | 2343.4 | 2341.1 | 2336.6 | 2343.4 | 2347.9 |
| 5° | 2334.4 | 2332.1 | 2329.8 | 2341.1 | 2345.6 |
| 7.5° | 2318.6 | 2318.6 | 2320.8 | 2332.1 | 2336.6 |
| 10° | 2296.0 | 2298.3 | 2302.8 | 2320.8 | 2325.3 |
| 12.5° | 2268.9 | 2273.5 | 2284.7 | 2305.0 | 2314.1 |
| 15° | 2237.4 | 2241.9 | 2257.7 | 2284.7 | 2296.0 |
| 17.5° | 2196.8 | 2205.8 | 2228.3 | 2259.9 | 2271.2 |
| 20° | 2151.7 | 2162.9 | 2192.3 | 2228.3 | 2241.9 |
| 22.5° | 2102.0 | 2113.3 | 2151.7 | 2190.0 | 2203.5 |
| 25° | 2047.9 | 2061.4 | 2102.0 | 2144.9 | 2162.9 |
| 27.5° | 1989.3 | 2005.1 | 2050.2 | 2095.3 | 2113.3 |
| 30° | 1923.9 | 1941.9 | 1989.3 | 2036.6 | 2052.4 |
| 32.5° | 1854.0 | 1872.0 | 1926.1 | 1971.2 | 1987.0 |
| 35° | 1784.0 | 1799.8 | 1854.0 | 1901.3 | 1912.6 |
| 37.5° | 1705.1 | 1723.1 | 1781.8 | 1822.4 | 1838.2 |
| 40° | 1628.4 | 1646.5 | 1698.3 | 1738.9 | 1752.5 |
| 42.5° | 1545.0 | 1563.0 | 1614.9 | 1653.2 | 1664.5 |
| 45° | 1457.0 | 1477.3 | 1524.7 | 1563.0 | 1572.0 |
| 47.5° | 1369.0 | 1384.8 | 1434.4 | 1468.3 | 1475.0 |
| 50° | 1276.6 | 1292.4 | 1337.5 | 1371.3 | 1378.1 |
| 52.5° | 1179.6 | 1204.4 | 1240.5 | 1265.3 | 1294.6 |
| 55° | 1087.1 | 1098.4 | 1136.7 | 1184.1 | 1170.6 |
| 57.5° | 994.6 | 1001.4 | 1033.0 | 1053.3 | 1057.8 |
| 60° | 893.1 | 902.2 | 927.0 | 938.3 | 949.5 |
| 62.5° | 787.1 | 793.9 | 823.2 | 834.5 | 839.0 |
| 65° | 685.6 | 692.4 | 708.2 | 719.5 | 721.7 |
| 67.5° | 581.9 | 588.7 | 602.2 | 611.2 | 651.8 |
| 70° | 487.2 | 491.7 | 498.4 | 516.5 | 505.2 |
| 72.5° | 397.0 | 399.2 | 406.0 | 406.0 | 408.2 |
| 75° | 311.2 | 313.5 | 315.8 | 313.5 | 318.0 |
| 77.5° | 232.3 | 236.8 | 239.1 | 236.8 | 234.6 |
| 80° | 166.9 | 171.4 | 169.2 | 164.6 | 164.6 |
| 82.5° | 108.3 | 110.5 | 108.3 | 106.0 | 106.0 |
| 85° | 56.4 | 60.9 | 58.6 | 56.4 | 56.4 |
| 87.5° | 20.3 | 22.6 | 24.8 | 27.1 | 27.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)