

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: P297541

Luminaire Tested: **D3X-WO-80L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297541
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-80L92765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6570.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

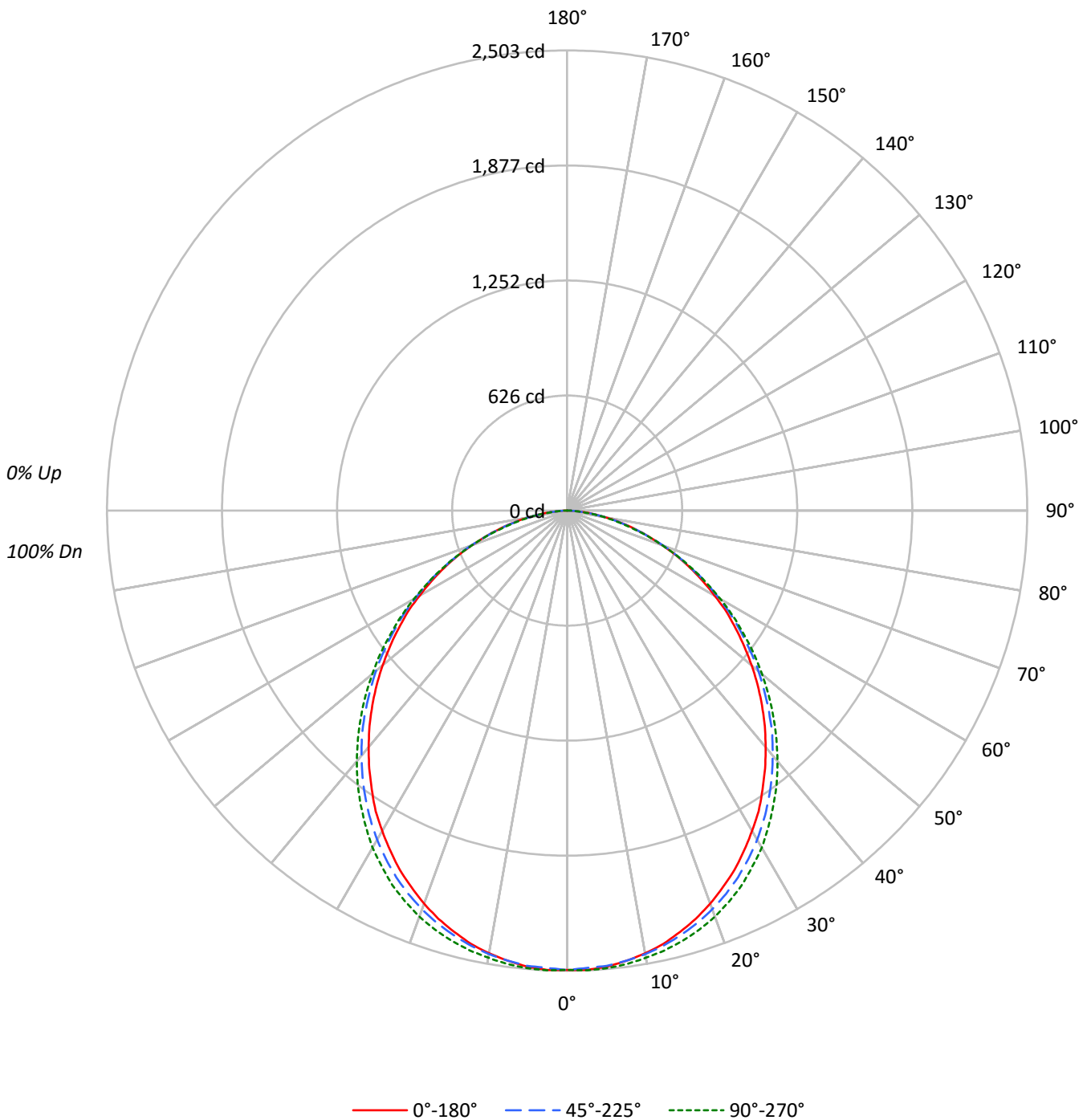
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297541

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Luminous Intensity Polar Plot





TEST NUMBER: P297541

CATALOG NUMBER: D3X-WO-80L92765-LD5-UNV-24-T1-W2A-3000K

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° | 3362 | 3362 | 3362 |
| 5° | 3363 | 3357 | 3375 |
| 10° | 3341 | 3347 | 3374 |
| 15° | 3305 | 3329 | 3376 |
| 20° | 3258 | 3305 | 3365 |
| 25° | 3200 | 3266 | 3338 |
| 30° | 3126 | 3212 | 3291 |
| 35° | 3043 | 3141 | 3214 |
| 40° | 2950 | 3055 | 3125 |
| 45° | 2851 | 2956 | 3020 |
| 50° | 2743 | 2844 | 2895 |
| 55° | 2627 | 2710 | 2752 |
| 60° | 2495 | 2561 | 2591 |
| 65° | 2353 | 2389 | 2403 |
| 70° | 2159 | 2185 | 2159 |
| 75° | 1944 | 1933 | 1876 |
| 80° | 1647 | 1629 | 1578 |
| 85° | 1230 | 1196 | 1059 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 236.6 | 3.6 |
| 10°-20° | 675.8 | 10.3 |
| 20°-30° | 1013.3 | 15.4 |
| 30°-40° | 1193.3 | 18.2 |
| 40°-50° | 1193.5 | 18.2 |
| 50°-60° | 1029.8 | 15.7 |
| 60°-70° | 741.0 | 11.3 |
| 70°-80° | 393.0 | 6.0 |
| 80°-90° | 93.7 | 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° | 1925.7 | 29.3 |
| 0°-40° | 3119.0 | 47.5 |
| 0°-60° | 5342.2 | 81.3 |
| 0°-90° | 6570.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6570.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2499 | 2499 | 2499 | 2499 | 2499 | |
| 5° | 2490 | 2488 | 2485 | 2494 | 2499 | 236 |
| 15° | 2372 | 2379 | 2390 | 2415 | 2423 | 669 |
| 25° | 2156 | 2169 | 2200 | 2238 | 2249 | 992 |
| 35° | 1852 | 1875 | 1912 | 1945 | 1956 | 1159 |
| 45° | 1498 | 1518 | 1554 | 1580 | 1587 | 1156 |
| 55° | 1120 | 1131 | 1155 | 1175 | 1173 | 1002 |
| 65° | 739 | 741 | 750 | 755 | 755 | 731 |
| 75° | 374 | 370 | 372 | 363 | 361 | 398 |
| 85° | 80 | 80 | 78 | 71 | 69 | 96 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: D3X-WO-80L92765-LD5-UNV-24-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2498.7 | 2498.7 | 2498.7 | 2498.7 | 2498.7 |
| 2.5° | 2500.9 | 2496.5 | 2489.8 | 2498.7 | 2503.1 |
| 5° | 2489.8 | 2487.6 | 2485.4 | 2494.3 | 2498.7 |
| 7.5° | 2469.9 | 2472.1 | 2469.9 | 2483.2 | 2487.6 |
| 10° | 2445.6 | 2447.8 | 2450.0 | 2465.5 | 2469.9 |
| 12.5° | 2414.6 | 2416.8 | 2423.4 | 2443.4 | 2450.0 |
| 15° | 2372.5 | 2379.2 | 2390.2 | 2414.6 | 2423.4 |
| 17.5° | 2328.3 | 2337.1 | 2352.6 | 2381.4 | 2390.2 |
| 20° | 2275.2 | 2286.2 | 2308.4 | 2339.3 | 2350.4 |
| 22.5° | 2215.4 | 2226.5 | 2257.5 | 2290.7 | 2301.7 |
| 25° | 2155.6 | 2168.9 | 2199.9 | 2237.5 | 2248.6 |
| 27.5° | 2084.8 | 2102.5 | 2135.7 | 2173.4 | 2182.2 |
| 30° | 2011.8 | 2027.3 | 2067.1 | 2102.5 | 2118.0 |
| 32.5° | 1938.8 | 1954.2 | 1991.9 | 2027.3 | 2038.3 |
| 35° | 1852.4 | 1874.6 | 1912.2 | 1945.4 | 1956.5 |
| 37.5° | 1768.3 | 1788.3 | 1828.1 | 1861.3 | 1872.4 |
| 40° | 1679.8 | 1697.5 | 1739.6 | 1770.6 | 1779.4 |
| 42.5° | 1591.3 | 1609.0 | 1651.0 | 1675.4 | 1684.2 |
| 45° | 1498.3 | 1518.2 | 1553.7 | 1580.2 | 1586.9 |
| 47.5° | 1405.4 | 1420.9 | 1454.1 | 1478.4 | 1487.3 |
| 50° | 1310.2 | 1325.7 | 1358.9 | 1378.8 | 1383.2 |
| 52.5° | 1215.0 | 1226.1 | 1257.1 | 1274.8 | 1281.4 |
| 55° | 1119.9 | 1130.9 | 1155.3 | 1175.2 | 1173.0 |
| 57.5° | 1029.1 | 1033.6 | 1057.9 | 1071.2 | 1071.2 |
| 60° | 927.3 | 931.8 | 951.7 | 960.5 | 962.7 |
| 62.5° | 832.2 | 838.8 | 854.3 | 856.5 | 856.5 |
| 65° | 739.2 | 741.4 | 750.3 | 754.7 | 754.7 |
| 67.5° | 646.3 | 644.0 | 652.9 | 652.9 | 650.7 |
| 70° | 548.9 | 553.3 | 555.5 | 551.1 | 548.9 |
| 72.5° | 460.3 | 458.1 | 458.1 | 455.9 | 455.9 |
| 75° | 374.0 | 369.6 | 371.8 | 363.0 | 360.8 |
| 77.5° | 294.4 | 287.7 | 285.5 | 281.1 | 276.6 |
| 80° | 212.5 | 212.5 | 210.3 | 205.8 | 203.6 |
| 82.5° | 141.6 | 141.6 | 139.4 | 135.0 | 130.6 |
| 85° | 79.7 | 79.7 | 77.5 | 70.8 | 68.6 |
| 87.5° | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)