

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: P296750

Luminaire Tested: **D3X-WD-74L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296750
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-74L83050-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: 6978.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

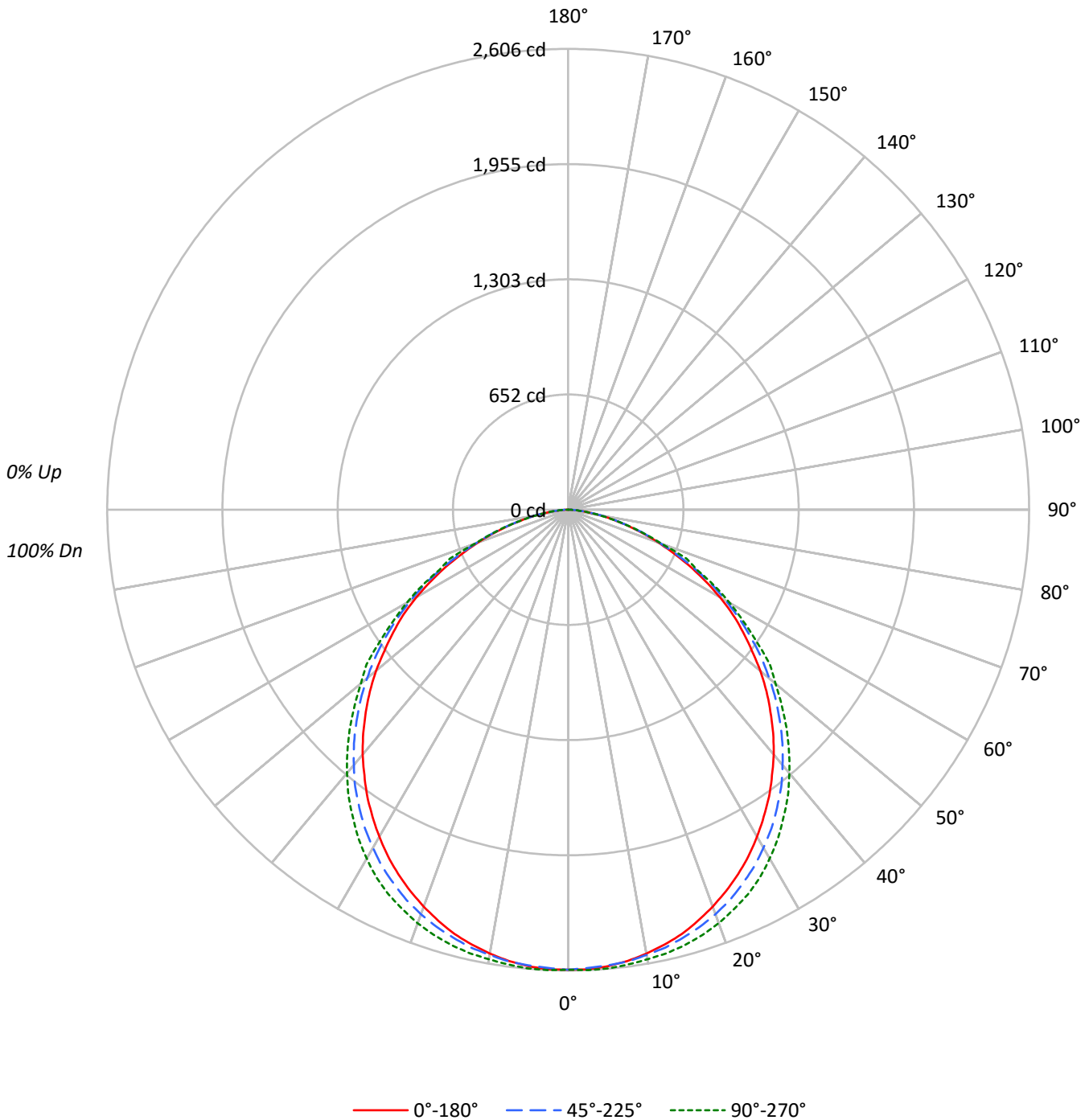
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3500 | 3500 | 3500 |
| 5° | 3500 | 3493 | 3517 |
| 10° | 3482 | 3493 | 3527 |
| 15° | 3460 | 3491 | 3550 |
| 20° | 3420 | 3485 | 3563 |
| 25° | 3375 | 3464 | 3565 |
| 30° | 3318 | 3431 | 3540 |
| 35° | 3253 | 3380 | 3487 |
| 40° | 3175 | 3311 | 3417 |
| 45° | 3078 | 3221 | 3321 |
| 50° | 2966 | 3108 | 3202 |
| 55° | 2831 | 2960 | 3048 |
| 60° | 2668 | 2769 | 2837 |
| 65° | 2423 | 2503 | 2551 |
| 70° | 2127 | 2177 | 2206 |
| 75° | 1796 | 1822 | 1835 |
| 80° | 1436 | 1455 | 1416 |
| 85° | 966 | 1005 | 966 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 246.5 | 3.5 |
| 10°-20° | 709.0 | 10.2 |
| 20°-30° | 1075.7 | 15.4 |
| 30°-40° | 1284.2 | 18.4 |
| 40°-50° | 1300.2 | 18.6 |
| 50°-60° | 1123.8 | 16.1 |
| 60°-70° | 778.9 | 11.2 |
| 70°-80° | 376.9 | 5.4 |
| 80°-90° | 82.9 | 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° | 2031.2 | 29.1 |
| 0°-40° | 3315.4 | 47.5 |
| 0°-60° | 5739.4 | 82.2 |
| 0°-90° | 6978.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6978.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2601 | 2601 | 2601 | 2601 | 2601 | |
| 5° | 2591 | 2589 | 2586 | 2599 | 2604 | 246 |
| 15° | 2484 | 2489 | 2506 | 2536 | 2549 | 700 |
| 25° | 2273 | 2288 | 2334 | 2381 | 2401 | 1047 |
| 35° | 1980 | 1998 | 2058 | 2111 | 2123 | 1237 |
| 45° | 1617 | 1640 | 1692 | 1735 | 1745 | 1247 |
| 55° | 1207 | 1219 | 1262 | 1314 | 1299 | 1079 |
| 65° | 761 | 769 | 786 | 799 | 801 | 753 |
| 75° | 346 | 348 | 350 | 348 | 353 | 371 |
| 85° | 63 | 68 | 65 | 63 | 63 | 81 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P296750

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 |
| 2.5° | 2601.3 | 2598.8 | 2593.8 | 2601.3 | 2606.4 |
| 5° | 2591.3 | 2588.8 | 2586.3 | 2598.8 | 2603.9 |
| 7.5° | 2573.8 | 2573.8 | 2576.3 | 2588.8 | 2593.8 |
| 10° | 2548.8 | 2551.3 | 2556.3 | 2576.3 | 2581.3 |
| 12.5° | 2518.7 | 2523.7 | 2536.3 | 2558.8 | 2568.8 |
| 15° | 2483.7 | 2488.7 | 2506.2 | 2536.3 | 2548.8 |
| 17.5° | 2438.6 | 2448.6 | 2473.7 | 2508.7 | 2521.2 |
| 20° | 2388.5 | 2401.1 | 2433.6 | 2473.7 | 2488.7 |
| 22.5° | 2333.5 | 2346.0 | 2388.5 | 2431.1 | 2446.1 |
| 25° | 2273.4 | 2288.4 | 2333.5 | 2381.0 | 2401.1 |
| 27.5° | 2208.3 | 2225.8 | 2275.9 | 2325.9 | 2346.0 |
| 30° | 2135.7 | 2155.7 | 2208.3 | 2260.8 | 2278.4 |
| 32.5° | 2058.0 | 2078.1 | 2138.2 | 2188.2 | 2205.8 |
| 35° | 1980.4 | 1998.0 | 2058.0 | 2110.6 | 2123.1 |
| 37.5° | 1892.8 | 1912.8 | 1977.9 | 2023.0 | 2040.5 |
| 40° | 1807.7 | 1827.7 | 1885.3 | 1930.4 | 1945.4 |
| 42.5° | 1715.0 | 1735.1 | 1792.7 | 1835.2 | 1847.7 |
| 45° | 1617.4 | 1639.9 | 1692.5 | 1735.1 | 1745.1 |
| 47.5° | 1519.7 | 1537.3 | 1592.4 | 1629.9 | 1637.4 |
| 50° | 1417.1 | 1434.6 | 1484.7 | 1522.3 | 1529.8 |
| 52.5° | 1309.4 | 1337.0 | 1377.0 | 1404.6 | 1437.1 |
| 55° | 1206.8 | 1219.3 | 1261.9 | 1314.4 | 1299.4 |
| 57.5° | 1104.1 | 1111.6 | 1146.7 | 1169.2 | 1174.2 |
| 60° | 991.5 | 1001.5 | 1029.0 | 1041.5 | 1054.1 |
| 62.5° | 873.8 | 881.3 | 913.9 | 926.4 | 931.4 |
| 65° | 761.1 | 768.6 | 786.2 | 798.7 | 801.2 |
| 67.5° | 646.0 | 653.5 | 668.5 | 678.5 | 723.6 |
| 70° | 540.8 | 545.8 | 553.3 | 573.3 | 560.8 |
| 72.5° | 440.7 | 443.2 | 450.7 | 450.7 | 453.2 |
| 75° | 345.5 | 348.0 | 350.5 | 348.0 | 353.0 |
| 77.5° | 257.9 | 262.9 | 265.4 | 262.9 | 260.4 |
| 80° | 185.3 | 190.3 | 187.8 | 182.8 | 182.8 |
| 82.5° | 120.2 | 122.7 | 120.2 | 117.7 | 117.7 |
| 85° | 62.6 | 67.6 | 65.1 | 62.6 | 62.6 |
| 87.5° | 22.5 | 25.0 | 27.5 | 30.0 | 30.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)