

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: P298434

Luminaire Tested: **D3X-WO-25L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-25L92765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

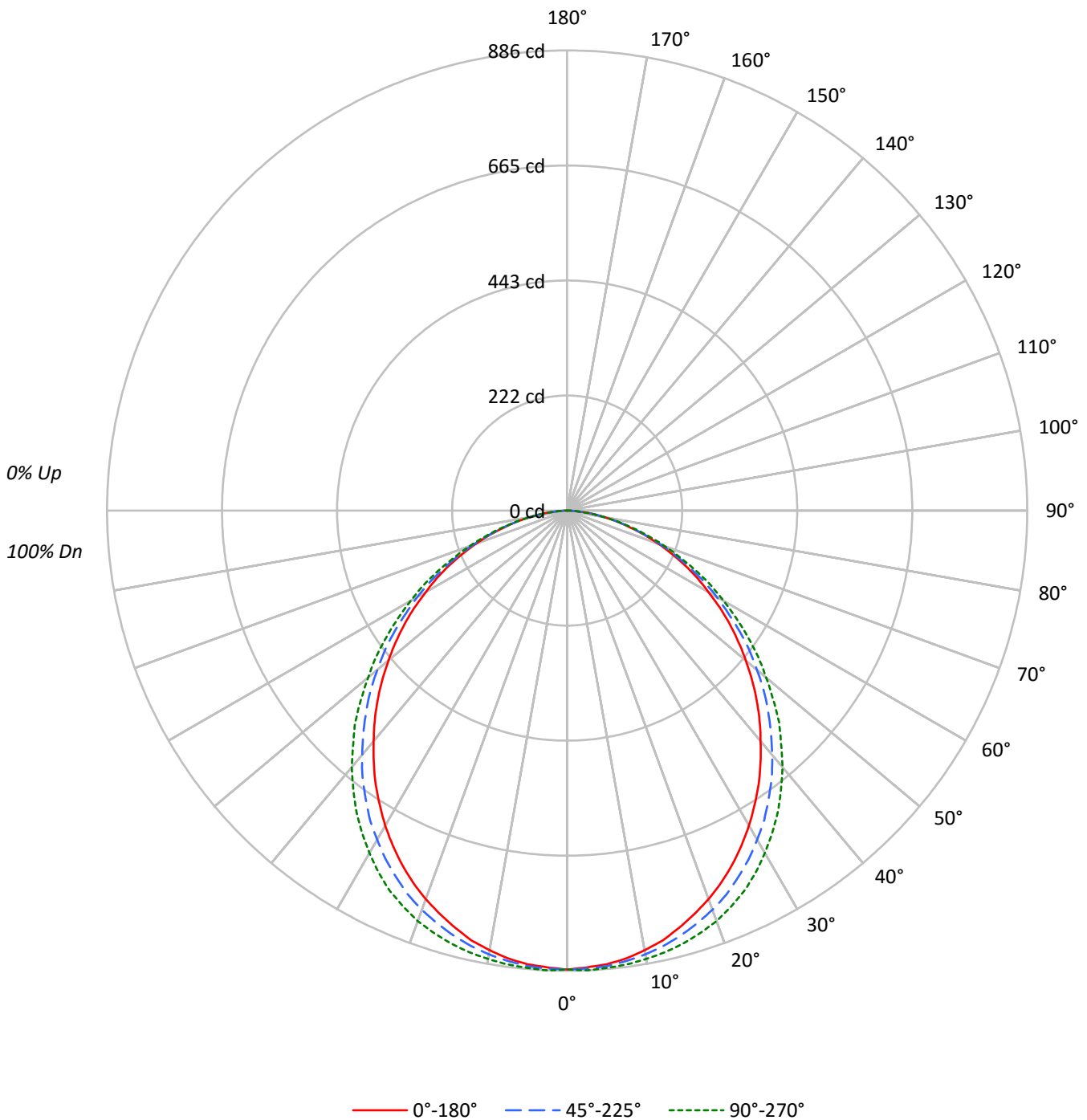
Input Watts (W): 19.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 | 60 |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 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 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2378 | 2378 | 2378 |
| 5° | 2368 | 2378 | 2387 |
| 10° | 2349 | 2371 | 2396 |
| 15° | 2317 | 2359 | 2404 |
| 20° | 2280 | 2342 | 2409 |
| 25° | 2234 | 2313 | 2398 |
| 30° | 2177 | 2273 | 2367 |
| 35° | 2112 | 2222 | 2324 |
| 40° | 2036 | 2157 | 2266 |
| 45° | 1964 | 2083 | 2197 |
| 50° | 1881 | 1997 | 2093 |
| 55° | 1795 | 1903 | 1994 |
| 60° | 1693 | 1792 | 1872 |
| 65° | 1599 | 1658 | 1739 |
| 70° | 1468 | 1514 | 1568 |
| 75° | 1306 | 1341 | 1378 |
| 80° | 1125 | 1106 | 1106 |
| 85° | 855 | 781 | 710 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.6 | 3.6 |
| 10°-20° | 238.9 | 10.3 |
| 20°-30° | 358.8 | 15.5 |
| 30°-40° | 422.2 | 18.2 |
| 40°-50° | 421.1 | 18.2 |
| 50°-60° | 361.4 | 15.6 |
| 60°-70° | 258.8 | 11.2 |
| 70°-80° | 137.1 | 5.9 |
| 80°-90° | 32.0 | 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° | 681.3 | 29.4 |
| 0°-40° | 1103.5 | 47.7 |
| 0°-60° | 1886.1 | 81.5 |
| 0°-90° | 2314.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2314.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 884 | 884 | 884 | 884 | 884 | |
| 5° | 877 | 877 | 880 | 882 | 884 | 83 |
| 15° | 832 | 835 | 847 | 858 | 863 | 234 |
| 25° | 752 | 759 | 779 | 798 | 808 | 346 |
| 35° | 643 | 651 | 676 | 699 | 707 | 402 |
| 45° | 516 | 524 | 547 | 567 | 577 | 398 |
| 55° | 382 | 388 | 406 | 419 | 425 | 342 |
| 65° | 251 | 252 | 260 | 271 | 273 | 248 |
| 75° | 126 | 126 | 129 | 131 | 132 | 135 |
| 85° | 28 | 26 | 25 | 23 | 23 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 883.7 | 883.7 | 883.7 | 883.7 | 883.7 |
| 2.5° | 880.2 | 880.2 | 882.5 | 884.8 | 886.0 |
| 5° | 876.8 | 876.8 | 880.2 | 882.5 | 883.7 |
| 7.5° | 869.9 | 869.9 | 874.5 | 879.1 | 881.4 |
| 10° | 859.5 | 861.8 | 867.6 | 874.5 | 876.8 |
| 12.5° | 848.0 | 850.3 | 858.3 | 867.6 | 871.0 |
| 15° | 831.8 | 835.3 | 846.8 | 858.3 | 863.0 |
| 17.5° | 814.6 | 819.2 | 833.0 | 846.8 | 852.6 |
| 20° | 796.1 | 800.7 | 818.0 | 834.2 | 841.1 |
| 22.5° | 775.4 | 781.2 | 800.7 | 818.0 | 824.9 |
| 25° | 752.4 | 759.3 | 778.9 | 798.4 | 807.7 |
| 27.5° | 727.0 | 735.1 | 757.0 | 777.7 | 785.8 |
| 30° | 700.5 | 709.7 | 731.6 | 753.5 | 761.6 |
| 32.5° | 671.7 | 679.8 | 706.3 | 727.0 | 735.1 |
| 35° | 642.9 | 651.0 | 676.3 | 699.4 | 707.4 |
| 37.5° | 611.8 | 622.2 | 647.5 | 668.2 | 676.3 |
| 40° | 579.5 | 589.9 | 614.1 | 638.3 | 645.2 |
| 42.5° | 548.4 | 557.6 | 580.7 | 602.6 | 609.5 |
| 45° | 516.2 | 524.2 | 547.3 | 566.9 | 577.2 |
| 47.5° | 482.7 | 490.8 | 513.9 | 532.3 | 538.1 |
| 50° | 449.3 | 457.4 | 477.0 | 493.1 | 500.0 |
| 52.5° | 415.9 | 424.0 | 442.4 | 457.4 | 464.3 |
| 55° | 382.5 | 388.3 | 405.6 | 419.4 | 425.1 |
| 57.5° | 349.1 | 353.7 | 367.5 | 382.5 | 386.0 |
| 60° | 314.5 | 320.3 | 333.0 | 343.3 | 347.9 |
| 62.5° | 283.4 | 285.7 | 297.3 | 306.5 | 312.2 |
| 65° | 251.2 | 252.3 | 260.4 | 270.8 | 273.1 |
| 67.5° | 217.8 | 218.9 | 227.0 | 232.7 | 235.0 |
| 70° | 186.6 | 186.6 | 192.4 | 197.0 | 199.3 |
| 72.5° | 156.7 | 155.5 | 159.0 | 163.6 | 165.9 |
| 75° | 125.6 | 125.6 | 129.0 | 131.3 | 132.5 |
| 77.5° | 99.1 | 96.8 | 99.1 | 101.4 | 101.4 |
| 80° | 72.6 | 71.4 | 71.4 | 72.6 | 71.4 |
| 82.5° | 49.5 | 48.4 | 49.5 | 47.2 | 46.1 |
| 85° | 27.7 | 26.5 | 25.3 | 23.0 | 23.0 |
| 87.5° | 9.2 | 8.1 | 8.1 | 9.2 | 9.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)