

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: P298271

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L92765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2525.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

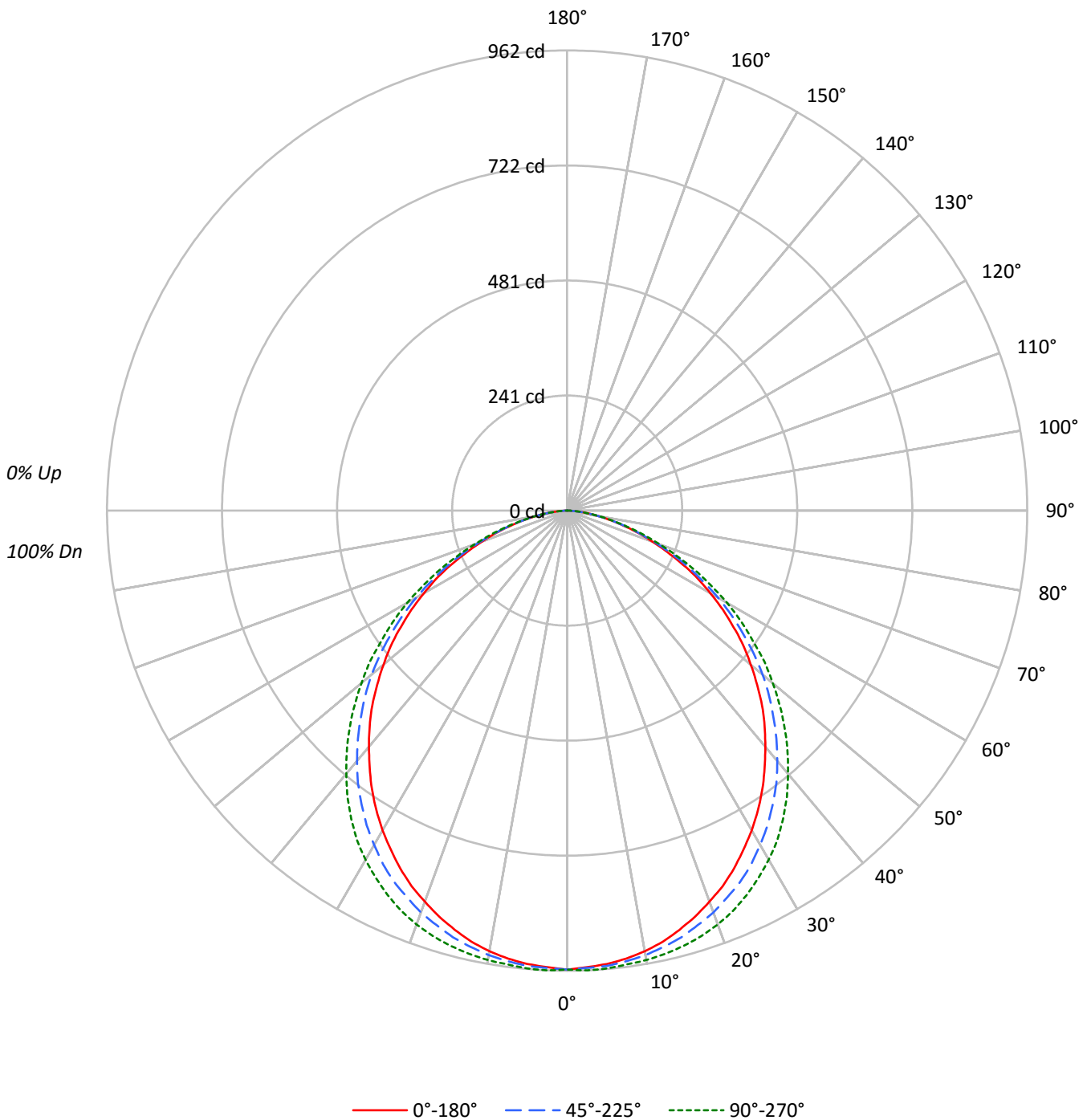
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2582 | 2582 | 2582 |
| 5° | 2570 | 2581 | 2596 |
| 10° | 2556 | 2578 | 2607 |
| 15° | 2528 | 2573 | 2625 |
| 20° | 2491 | 2560 | 2637 |
| 25° | 2451 | 2543 | 2634 |
| 30° | 2399 | 2507 | 2619 |
| 35° | 2338 | 2461 | 2584 |
| 40° | 2264 | 2401 | 2523 |
| 45° | 2193 | 2321 | 2448 |
| 50° | 2098 | 2233 | 2351 |
| 55° | 1993 | 2107 | 2220 |
| 60° | 1861 | 1962 | 2077 |
| 65° | 1698 | 1775 | 1877 |
| 70° | 1487 | 1550 | 1613 |
| 75° | 1268 | 1295 | 1352 |
| 80° | 1018 | 1038 | 1058 |
| 85° | 744 | 704 | 661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.8 | 3.6 |
| 10°-20° | 260.7 | 10.3 |
| 20°-30° | 394.1 | 15.6 |
| 30°-40° | 468.1 | 18.5 |
| 40°-50° | 469.9 | 18.6 |
| 50°-60° | 401.4 | 15.9 |
| 60°-70° | 276.6 | 11.0 |
| 70°-80° | 134.1 | 5.3 |
| 80°-90° | 29.3 | 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° | 745.6 | 29.5 |
| 0°-40° | 1213.7 | 48.1 |
| 0°-60° | 2085.0 | 82.6 |
| 0°-90° | 2525.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2525.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 960 | 960 | 960 | 960 | 960 | |
| 5° | 952 | 952 | 956 | 958 | 961 | 90 |
| 15° | 907 | 911 | 923 | 935 | 942 | 256 |
| 25° | 826 | 832 | 856 | 879 | 887 | 380 |
| 35° | 712 | 722 | 749 | 777 | 787 | 445 |
| 45° | 576 | 584 | 610 | 635 | 643 | 444 |
| 55° | 425 | 432 | 449 | 468 | 473 | 380 |
| 65° | 267 | 267 | 279 | 291 | 295 | 264 |
| 75° | 122 | 119 | 125 | 127 | 130 | 131 |
| 85° | 24 | 24 | 23 | 21 | 21 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 |
| 2.5° | 955.5 | 955.5 | 956.9 | 960.9 | 962.2 |
| 5° | 951.5 | 951.5 | 955.5 | 958.2 | 960.9 |
| 7.5° | 944.8 | 946.2 | 950.2 | 955.5 | 956.9 |
| 10° | 935.4 | 936.8 | 943.5 | 950.2 | 954.2 |
| 12.5° | 923.4 | 926.1 | 934.1 | 944.8 | 948.8 |
| 15° | 907.3 | 911.3 | 923.4 | 935.4 | 942.1 |
| 17.5° | 889.9 | 895.2 | 908.6 | 926.1 | 932.8 |
| 20° | 869.8 | 876.5 | 893.9 | 912.7 | 920.7 |
| 22.5° | 849.7 | 855.0 | 875.1 | 896.6 | 906.0 |
| 25° | 825.5 | 832.2 | 856.4 | 879.1 | 887.2 |
| 27.5° | 798.7 | 808.1 | 833.6 | 857.7 | 865.7 |
| 30° | 771.9 | 780.0 | 806.8 | 833.6 | 843.0 |
| 32.5° | 742.5 | 750.5 | 780.0 | 806.8 | 817.5 |
| 35° | 711.6 | 722.3 | 749.2 | 777.3 | 786.7 |
| 37.5° | 678.1 | 690.2 | 718.3 | 742.5 | 754.5 |
| 40° | 644.6 | 655.3 | 683.5 | 708.9 | 718.3 |
| 42.5° | 611.1 | 620.5 | 647.3 | 674.1 | 682.1 |
| 45° | 576.3 | 584.3 | 609.8 | 635.2 | 643.3 |
| 47.5° | 538.7 | 548.1 | 572.3 | 593.7 | 603.1 |
| 50° | 501.2 | 510.6 | 533.4 | 553.5 | 561.5 |
| 52.5° | 465.0 | 470.4 | 491.8 | 510.6 | 520.0 |
| 55° | 424.8 | 431.5 | 449.0 | 467.7 | 473.1 |
| 57.5° | 386.0 | 390.0 | 407.4 | 423.5 | 431.5 |
| 60° | 345.8 | 348.4 | 364.5 | 376.6 | 386.0 |
| 62.5° | 308.2 | 308.2 | 320.3 | 333.7 | 339.1 |
| 65° | 266.7 | 266.7 | 278.8 | 290.8 | 294.8 |
| 67.5° | 226.5 | 229.2 | 237.2 | 246.6 | 249.3 |
| 70° | 189.0 | 189.0 | 197.0 | 203.7 | 205.0 |
| 72.5° | 155.5 | 154.1 | 158.1 | 163.5 | 166.2 |
| 75° | 122.0 | 119.3 | 124.6 | 127.3 | 130.0 |
| 77.5° | 92.5 | 91.1 | 93.8 | 96.5 | 96.5 |
| 80° | 65.7 | 64.3 | 67.0 | 67.0 | 68.3 |
| 82.5° | 42.9 | 44.2 | 44.2 | 42.9 | 41.5 |
| 85° | 24.1 | 24.1 | 22.8 | 21.4 | 21.4 |
| 87.5° | 8.0 | 8.0 | 8.0 | 9.4 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)