

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: P297554

Luminaire Tested: **D3X-WD-26L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-26L83050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

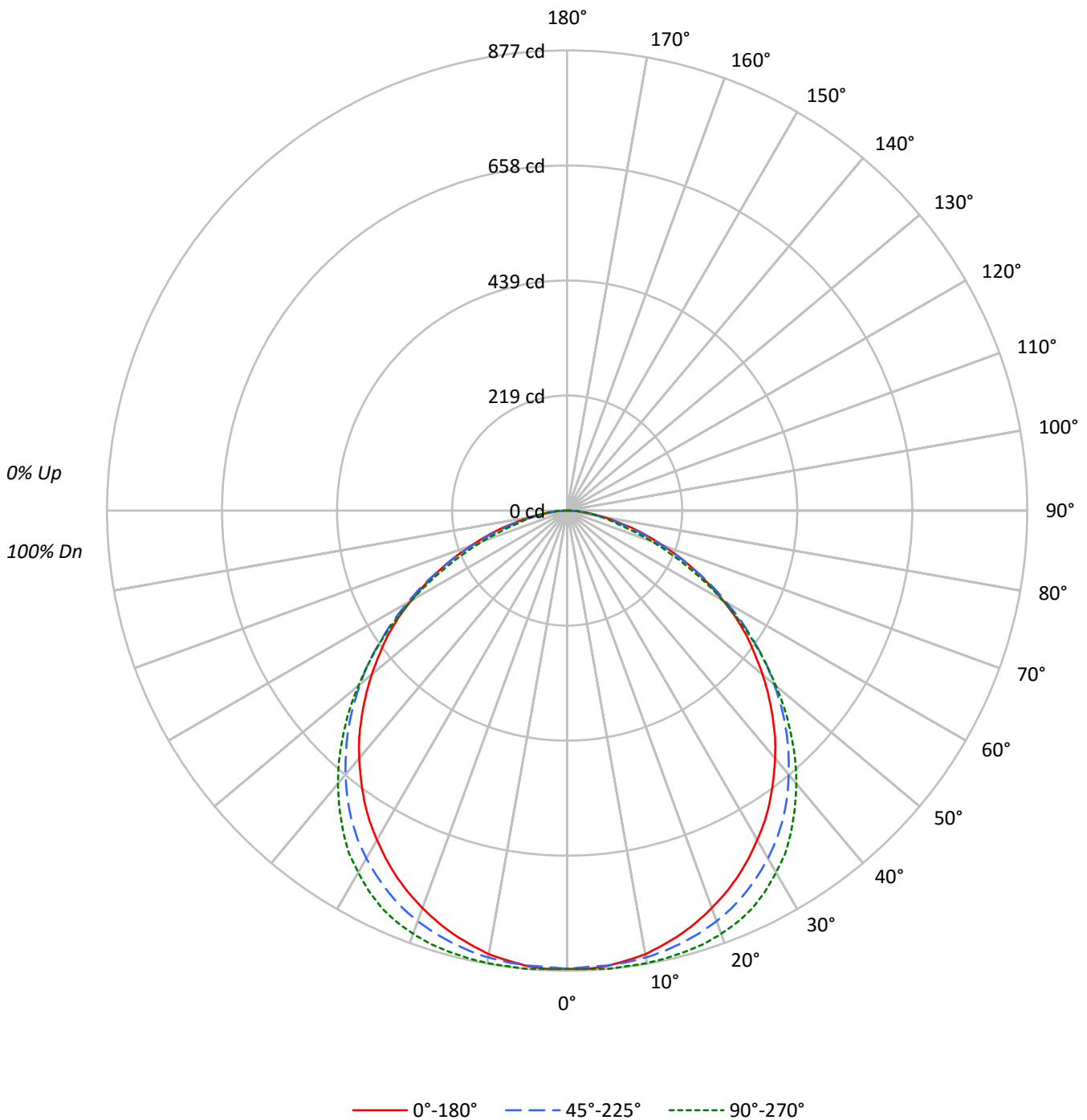
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 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 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2351 | 2351 | 2351 |
| 5° | 2354 | 2351 | 2368 |
| 10° | 2346 | 2363 | 2393 |
| 15° | 2329 | 2374 | 2425 |
| 20° | 2308 | 2385 | 2458 |
| 25° | 2285 | 2387 | 2482 |
| 30° | 2252 | 2378 | 2475 |
| 35° | 2215 | 2356 | 2447 |
| 40° | 2166 | 2309 | 2388 |
| 45° | 2106 | 2245 | 2297 |
| 50° | 2035 | 2156 | 2174 |
| 55° | 1963 | 2039 | 2029 |
| 60° | 1849 | 1890 | 1843 |
| 65° | 1704 | 1711 | 1615 |
| 70° | 1524 | 1491 | 1356 |
| 75° | 1325 | 1235 | 1046 |
| 80° | 1062 | 962 | 962 |
| 85° | 760 | 892 | 926 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.1 | 3.5 |
| 10°-20° | 241.1 | 10.1 |
| 20°-30° | 370.2 | 15.4 |
| 30°-40° | 445.9 | 18.6 |
| 40°-50° | 450.6 | 18.8 |
| 50°-60° | 384.3 | 16.0 |
| 60°-70° | 263.1 | 11.0 |
| 70°-80° | 127.0 | 5.3 |
| 80°-90° | 32.7 | 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° | 694.4 | 29.0 |
| 0°-40° | 1140.3 | 47.6 |
| 0°-60° | 1975.2 | 82.4 |
| 0°-90° | 2398.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2398.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 874 | 874 | 874 | 874 | 874 | |
| 5° | 871 | 871 | 870 | 876 | 877 | 83 |
| 15° | 836 | 842 | 852 | 867 | 870 | 236 |
| 25° | 770 | 781 | 804 | 827 | 836 | 354 |
| 35° | 674 | 689 | 717 | 740 | 745 | 421 |
| 45° | 553 | 568 | 590 | 604 | 604 | 427 |
| 55° | 418 | 426 | 435 | 437 | 432 | 373 |
| 65° | 268 | 271 | 269 | 259 | 254 | 265 |
| 75° | 127 | 127 | 119 | 105 | 101 | 135 |
| 85° | 25 | 27 | 29 | 30 | 30 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 873.5 | 873.5 | 873.5 | 873.5 | 873.5 |
| 2.5° | 874.5 | 873.5 | 870.3 | 874.5 | 874.5 |
| 5° | 871.3 | 871.3 | 870.3 | 875.6 | 876.7 |
| 7.5° | 864.9 | 867.0 | 868.1 | 874.5 | 875.6 |
| 10° | 858.5 | 860.6 | 864.9 | 873.5 | 875.6 |
| 12.5° | 847.8 | 852.1 | 859.5 | 871.3 | 873.5 |
| 15° | 836.0 | 842.4 | 852.1 | 867.0 | 870.3 |
| 17.5° | 822.1 | 830.6 | 843.5 | 860.6 | 866.0 |
| 20° | 806.0 | 815.7 | 832.8 | 852.1 | 858.5 |
| 22.5° | 788.9 | 799.6 | 819.9 | 842.4 | 848.8 |
| 25° | 769.6 | 781.4 | 803.9 | 827.4 | 836.0 |
| 27.5° | 748.2 | 761.1 | 785.7 | 810.3 | 817.8 |
| 30° | 724.7 | 738.6 | 765.4 | 790.0 | 796.4 |
| 32.5° | 701.1 | 715.0 | 742.9 | 766.4 | 773.9 |
| 35° | 674.4 | 689.4 | 717.2 | 739.7 | 745.0 |
| 37.5° | 645.5 | 660.4 | 688.3 | 710.8 | 712.9 |
| 40° | 616.6 | 631.5 | 657.2 | 677.6 | 679.7 |
| 42.5° | 586.6 | 600.5 | 624.1 | 641.2 | 643.3 |
| 45° | 553.4 | 568.4 | 589.8 | 603.7 | 603.7 |
| 47.5° | 520.2 | 535.2 | 553.4 | 563.0 | 563.0 |
| 50° | 486.0 | 499.9 | 514.9 | 520.2 | 519.2 |
| 52.5° | 451.7 | 464.6 | 477.4 | 478.5 | 476.3 |
| 55° | 418.5 | 426.0 | 434.6 | 436.7 | 432.4 |
| 57.5° | 382.1 | 388.6 | 393.9 | 390.7 | 387.5 |
| 60° | 343.6 | 350.0 | 351.1 | 345.7 | 342.5 |
| 62.5° | 306.1 | 311.5 | 311.5 | 302.9 | 297.6 |
| 65° | 267.6 | 270.8 | 268.7 | 259.0 | 253.7 |
| 67.5° | 231.2 | 233.4 | 229.1 | 219.4 | 210.9 |
| 70° | 193.7 | 194.8 | 189.5 | 177.7 | 172.3 |
| 72.5° | 159.5 | 160.6 | 154.1 | 140.2 | 133.8 |
| 75° | 127.4 | 127.4 | 118.8 | 104.9 | 100.6 |
| 77.5° | 95.3 | 98.5 | 88.8 | 81.4 | 81.4 |
| 80° | 68.5 | 71.7 | 62.1 | 63.2 | 62.1 |
| 82.5° | 45.0 | 48.2 | 45.0 | 45.0 | 45.0 |
| 85° | 24.6 | 26.8 | 28.9 | 30.0 | 30.0 |
| 87.5° | 7.5 | 12.8 | 13.9 | 15.0 | 17.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)