

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: P297976

Luminaire Tested: **D3X-WD-25L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-25L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

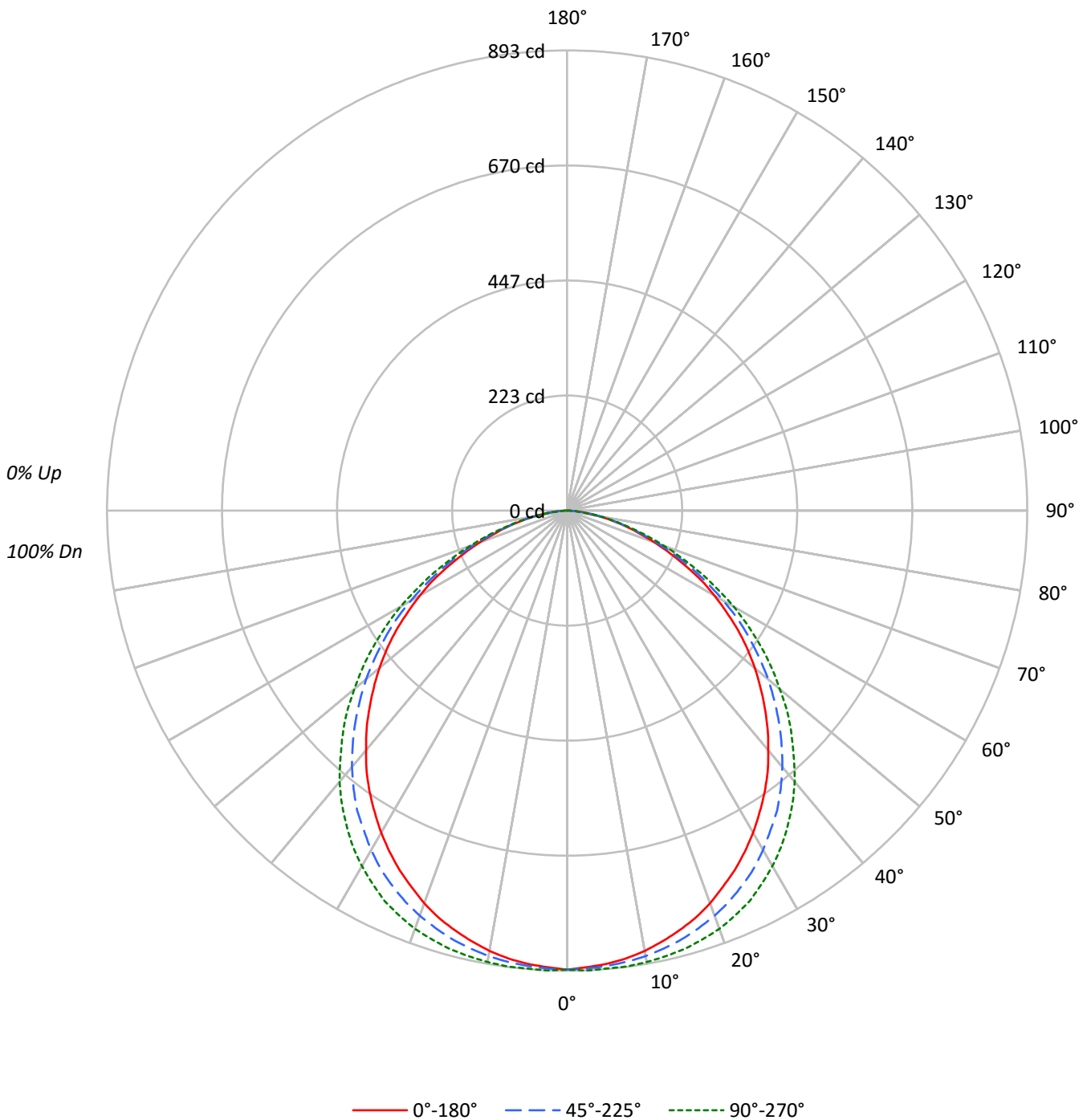
Input Watts (W): 19.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 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 | 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° | 2397 | 2397 | 2397 |
| 5° | 2385 | 2396 | 2410 |
| 10° | 2371 | 2399 | 2431 |
| 15° | 2349 | 2399 | 2453 |
| 20° | 2322 | 2396 | 2473 |
| 25° | 2285 | 2385 | 2484 |
| 30° | 2243 | 2363 | 2476 |
| 35° | 2194 | 2333 | 2452 |
| 40° | 2133 | 2282 | 2414 |
| 45° | 2065 | 2213 | 2345 |
| 50° | 1991 | 2132 | 2256 |
| 55° | 1899 | 2026 | 2153 |
| 60° | 1776 | 1887 | 2012 |
| 65° | 1609 | 1707 | 1814 |
| 70° | 1420 | 1491 | 1572 |
| 75° | 1220 | 1247 | 1300 |
| 80° | 979 | 1000 | 1018 |
| 85° | 716 | 636 | 636 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.4 | 3.5 |
| 10°-20° | 243.2 | 10.2 |
| 20°-30° | 369.9 | 15.4 |
| 30°-40° | 442.5 | 18.5 |
| 40°-50° | 447.4 | 18.7 |
| 50°-60° | 385.0 | 16.1 |
| 60°-70° | 265.8 | 11.1 |
| 70°-80° | 128.9 | 5.4 |
| 80°-90° | 27.9 | 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° | 697.5 | 29.1 |
| 0°-40° | 1140.0 | 47.6 |
| 0°-60° | 1972.3 | 82.4 |
| 0°-90° | 2395.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2395.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 891 | 891 | 891 | 891 | 891 | |
| 5° | 883 | 884 | 887 | 891 | 892 | 84 |
| 15° | 843 | 848 | 861 | 874 | 880 | 238 |
| 25° | 770 | 779 | 803 | 828 | 837 | 354 |
| 35° | 668 | 679 | 710 | 736 | 746 | 417 |
| 45° | 543 | 553 | 581 | 606 | 616 | 419 |
| 55° | 405 | 411 | 432 | 451 | 459 | 361 |
| 65° | 253 | 256 | 268 | 280 | 285 | 251 |
| 75° | 117 | 115 | 120 | 124 | 125 | 125 |
| 85° | 23 | 23 | 21 | 21 | 21 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 890.8 | 890.8 | 890.8 | 890.8 | 890.8 |
| 2.5° | 886.9 | 886.9 | 889.5 | 892.1 | 893.4 |
| 5° | 883.1 | 884.4 | 886.9 | 890.8 | 892.1 |
| 7.5° | 876.6 | 877.9 | 883.1 | 889.5 | 892.1 |
| 10° | 867.6 | 870.2 | 877.9 | 885.6 | 889.5 |
| 12.5° | 856.0 | 861.1 | 870.2 | 880.5 | 885.6 |
| 15° | 843.1 | 848.3 | 861.1 | 874.0 | 880.5 |
| 17.5° | 828.9 | 834.1 | 849.5 | 866.3 | 872.8 |
| 20° | 810.9 | 818.6 | 836.7 | 856.0 | 863.7 |
| 22.5° | 790.2 | 800.6 | 821.2 | 841.8 | 850.8 |
| 25° | 769.6 | 778.6 | 803.1 | 827.6 | 836.7 |
| 27.5° | 746.4 | 756.7 | 783.8 | 808.3 | 817.3 |
| 30° | 721.9 | 732.2 | 760.6 | 787.7 | 796.7 |
| 32.5° | 694.8 | 707.7 | 734.8 | 763.2 | 773.5 |
| 35° | 667.8 | 679.4 | 710.3 | 736.1 | 746.4 |
| 37.5° | 639.4 | 649.7 | 680.7 | 707.7 | 718.1 |
| 40° | 607.2 | 618.8 | 649.7 | 676.8 | 687.1 |
| 42.5° | 576.2 | 587.9 | 616.2 | 642.0 | 651.0 |
| 45° | 542.7 | 553.0 | 581.4 | 605.9 | 616.2 |
| 47.5° | 509.2 | 520.8 | 545.3 | 569.8 | 580.1 |
| 50° | 475.7 | 484.7 | 509.2 | 532.4 | 538.9 |
| 52.5° | 440.9 | 448.6 | 470.5 | 491.2 | 500.2 |
| 55° | 404.8 | 411.2 | 431.9 | 451.2 | 458.9 |
| 57.5° | 366.1 | 373.9 | 393.2 | 407.4 | 416.4 |
| 60° | 330.0 | 333.9 | 350.6 | 364.8 | 373.9 |
| 62.5° | 293.9 | 295.2 | 308.1 | 322.3 | 327.4 |
| 65° | 252.7 | 256.5 | 268.1 | 279.7 | 284.9 |
| 67.5° | 215.3 | 219.2 | 228.2 | 237.2 | 241.1 |
| 70° | 180.5 | 180.5 | 189.5 | 196.0 | 199.8 |
| 72.5° | 145.7 | 147.0 | 153.4 | 157.3 | 161.1 |
| 75° | 117.3 | 114.7 | 119.9 | 123.8 | 125.0 |
| 77.5° | 87.7 | 86.4 | 90.2 | 91.5 | 94.1 |
| 80° | 63.2 | 63.2 | 64.5 | 65.7 | 65.7 |
| 82.5° | 41.3 | 41.3 | 42.5 | 40.0 | 38.7 |
| 85° | 23.2 | 23.2 | 20.6 | 20.6 | 20.6 |
| 87.5° | 7.7 | 7.7 | 7.7 | 9.0 | 7.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)