

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: P297629

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297629
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-31L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

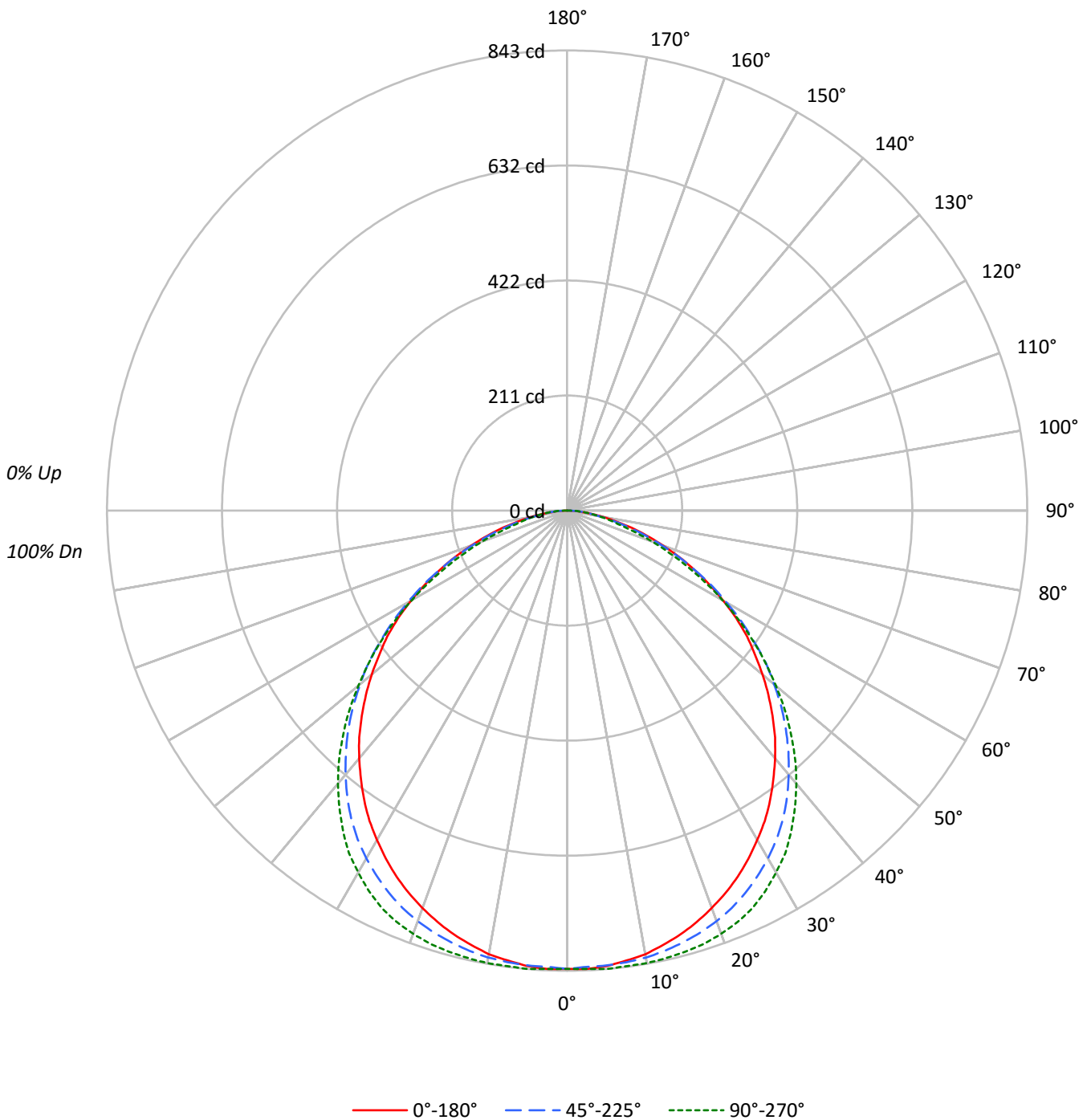
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 2259 | 2259 | 2259 |
| 5° | 2262 | 2260 | 2276 |
| 10° | 2255 | 2272 | 2300 |
| 15° | 2239 | 2282 | 2330 |
| 20° | 2219 | 2292 | 2363 |
| 25° | 2197 | 2294 | 2386 |
| 30° | 2165 | 2286 | 2379 |
| 35° | 2129 | 2265 | 2352 |
| 40° | 2082 | 2219 | 2295 |
| 45° | 2024 | 2157 | 2208 |
| 50° | 1955 | 2072 | 2089 |
| 55° | 1887 | 1960 | 1950 |
| 60° | 1778 | 1816 | 1772 |
| 65° | 1638 | 1645 | 1553 |
| 70° | 1465 | 1433 | 1304 |
| 75° | 1273 | 1187 | 1005 |
| 80° | 1021 | 925 | 925 |
| 85° | 732 | 858 | 889 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.9 | 3.5 |
| 10°-20° | 231.8 | 10.1 |
| 20°-30° | 355.9 | 15.4 |
| 30°-40° | 428.6 | 18.6 |
| 40°-50° | 433.1 | 18.8 |
| 50°-60° | 369.4 | 16.0 |
| 60°-70° | 252.9 | 11.0 |
| 70°-80° | 122.0 | 5.3 |
| 80°-90° | 31.5 | 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° | 667.5 | 29.0 |
| 0°-40° | 1096.1 | 47.6 |
| 0°-60° | 1898.6 | 82.4 |
| 0°-90° | 2305.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2305.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 840 | 840 | 840 | 840 | 840 | |
| 5° | 838 | 838 | 836 | 842 | 843 | 80 |
| 15° | 804 | 810 | 819 | 833 | 836 | 227 |
| 25° | 740 | 751 | 773 | 795 | 804 | 341 |
| 35° | 648 | 663 | 689 | 711 | 716 | 405 |
| 45° | 532 | 546 | 567 | 580 | 580 | 410 |
| 55° | 402 | 410 | 418 | 420 | 416 | 358 |
| 65° | 257 | 260 | 258 | 249 | 244 | 255 |
| 75° | 122 | 122 | 114 | 101 | 97 | 130 |
| 85° | 24 | 26 | 28 | 29 | 29 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 839.6 | 839.6 | 839.6 | 839.6 | 839.6 |
| 2.5° | 840.6 | 839.6 | 836.5 | 840.6 | 840.6 |
| 5° | 837.5 | 837.5 | 836.5 | 841.6 | 842.7 |
| 7.5° | 831.4 | 833.4 | 834.4 | 840.6 | 841.6 |
| 10° | 825.2 | 827.2 | 831.4 | 839.6 | 841.6 |
| 12.5° | 814.9 | 819.0 | 826.2 | 837.5 | 839.6 |
| 15° | 803.6 | 809.7 | 819.0 | 833.4 | 836.5 |
| 17.5° | 790.2 | 798.4 | 810.8 | 827.2 | 832.4 |
| 20° | 774.8 | 784.0 | 800.5 | 819.0 | 825.2 |
| 22.5° | 758.3 | 768.6 | 788.1 | 809.7 | 815.9 |
| 25° | 739.8 | 751.1 | 772.7 | 795.3 | 803.6 |
| 27.5° | 719.2 | 731.6 | 755.2 | 778.9 | 786.1 |
| 30° | 696.6 | 709.9 | 735.7 | 759.3 | 765.5 |
| 32.5° | 673.9 | 687.3 | 714.1 | 736.7 | 743.9 |
| 35° | 648.2 | 662.6 | 689.4 | 711.0 | 716.1 |
| 37.5° | 620.4 | 634.8 | 661.6 | 683.2 | 685.3 |
| 40° | 592.7 | 607.1 | 631.7 | 651.3 | 653.4 |
| 42.5° | 563.8 | 577.2 | 599.9 | 616.3 | 618.4 |
| 45° | 531.9 | 546.3 | 566.9 | 580.3 | 580.3 |
| 47.5° | 500.0 | 514.5 | 531.9 | 541.2 | 541.2 |
| 50° | 467.1 | 480.5 | 494.9 | 500.0 | 499.0 |
| 52.5° | 434.2 | 446.5 | 458.9 | 459.9 | 457.9 |
| 55° | 402.3 | 409.5 | 417.7 | 419.8 | 415.7 |
| 57.5° | 367.3 | 373.5 | 378.6 | 375.6 | 372.5 |
| 60° | 330.3 | 336.5 | 337.5 | 332.3 | 329.3 |
| 62.5° | 294.3 | 299.4 | 299.4 | 291.2 | 286.0 |
| 65° | 257.2 | 260.3 | 258.3 | 249.0 | 243.9 |
| 67.5° | 222.2 | 224.3 | 220.2 | 210.9 | 202.7 |
| 70° | 186.2 | 187.3 | 182.1 | 170.8 | 165.7 |
| 72.5° | 153.3 | 154.3 | 148.2 | 134.8 | 128.6 |
| 75° | 122.4 | 122.4 | 114.2 | 100.8 | 96.7 |
| 77.5° | 91.6 | 94.7 | 85.4 | 78.2 | 78.2 |
| 80° | 65.9 | 68.9 | 59.7 | 60.7 | 59.7 |
| 82.5° | 43.2 | 46.3 | 43.2 | 43.2 | 43.2 |
| 85° | 23.7 | 25.7 | 27.8 | 28.8 | 28.8 |
| 87.5° | 7.2 | 12.3 | 13.4 | 14.4 | 16.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)