

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: P298395

Luminaire Tested: **D3X-WO-25L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298395
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-25L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2095.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

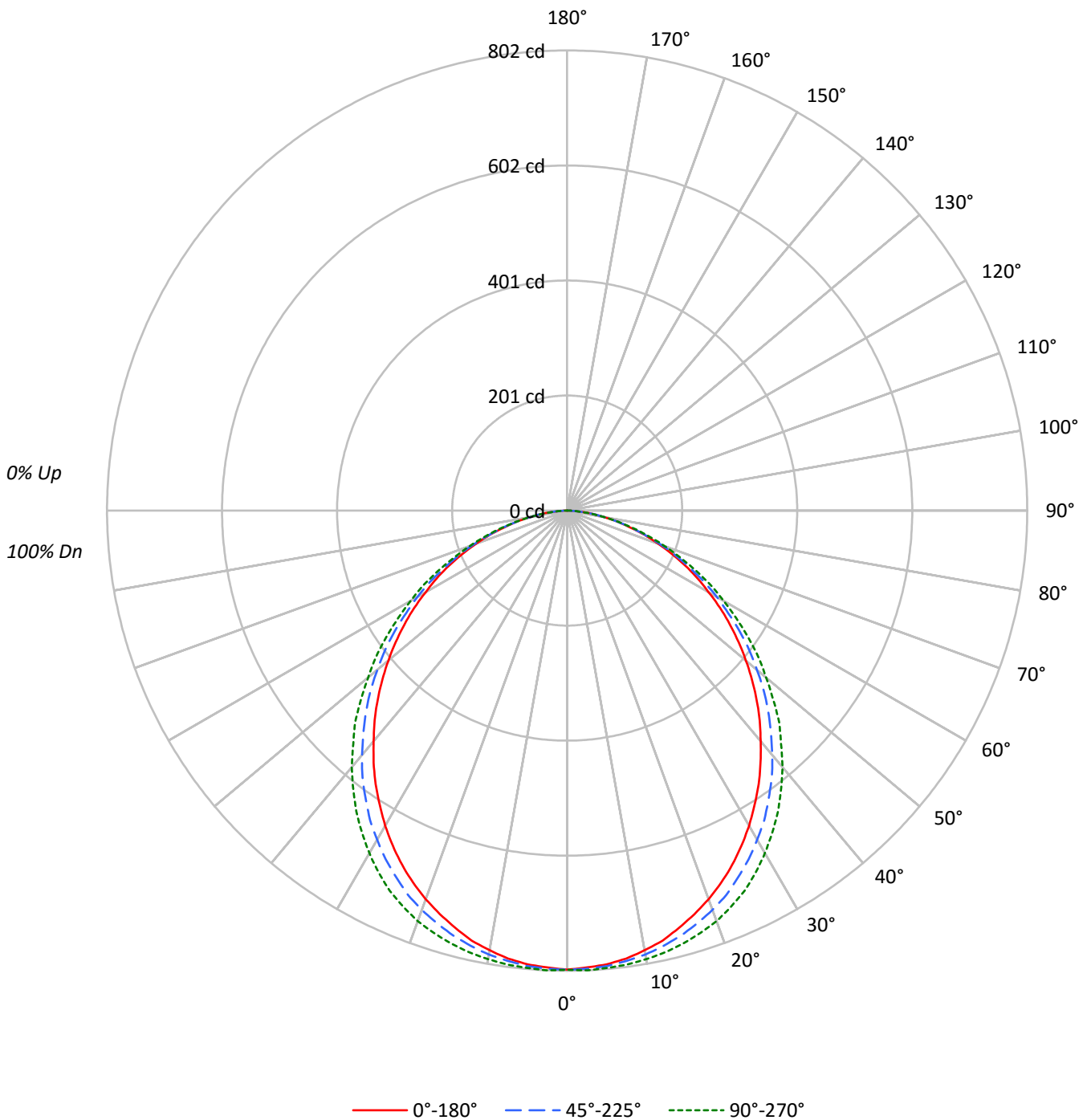
Input Watts (W): 19.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 2153 | 2153 | 2153 |
| 5° | 2144 | 2153 | 2161 |
| 10° | 2126 | 2146 | 2169 |
| 15° | 2098 | 2136 | 2177 |
| 20° | 2064 | 2121 | 2181 |
| 25° | 2022 | 2094 | 2171 |
| 30° | 1971 | 2058 | 2142 |
| 35° | 1912 | 2011 | 2104 |
| 40° | 1843 | 1953 | 2052 |
| 45° | 1778 | 1886 | 1989 |
| 50° | 1703 | 1808 | 1895 |
| 55° | 1625 | 1723 | 1806 |
| 60° | 1533 | 1623 | 1695 |
| 65° | 1448 | 1501 | 1574 |
| 70° | 1330 | 1371 | 1420 |
| 75° | 1182 | 1214 | 1248 |
| 80° | 1018 | 1003 | 1003 |
| 85° | 772 | 707 | 645 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.7 | 3.6 |
| 10°-20° | 216.3 | 10.3 |
| 20°-30° | 324.8 | 15.5 |
| 30°-40° | 382.3 | 18.2 |
| 40°-50° | 381.3 | 18.2 |
| 50°-60° | 327.2 | 15.6 |
| 60°-70° | 234.3 | 11.2 |
| 70°-80° | 124.1 | 5.9 |
| 80°-90° | 29.0 | 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° | 616.8 | 29.4 |
| 0°-40° | 999.1 | 47.7 |
| 0°-60° | 1707.6 | 81.5 |
| 0°-90° | 2095.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2095.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 800 | 800 | 800 | 800 | 800 | |
| 5° | 794 | 794 | 797 | 799 | 800 | 75 |
| 15° | 753 | 756 | 767 | 777 | 781 | 212 |
| 25° | 681 | 687 | 705 | 723 | 731 | 313 |
| 35° | 582 | 589 | 612 | 633 | 640 | 364 |
| 45° | 467 | 475 | 496 | 513 | 523 | 360 |
| 55° | 346 | 352 | 367 | 380 | 385 | 310 |
| 65° | 227 | 228 | 236 | 245 | 247 | 225 |
| 75° | 114 | 114 | 117 | 119 | 120 | 122 |
| 85° | 25 | 24 | 23 | 21 | 21 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 800.1 | 800.1 | 800.1 | 800.1 | 800.1 |
| 2.5° | 796.9 | 796.9 | 799.0 | 801.1 | 802.1 |
| 5° | 793.8 | 793.8 | 796.9 | 799.0 | 800.1 |
| 7.5° | 787.5 | 787.5 | 791.7 | 795.9 | 798.0 |
| 10° | 778.2 | 780.2 | 785.5 | 791.7 | 793.8 |
| 12.5° | 767.7 | 769.8 | 777.1 | 785.5 | 788.6 |
| 15° | 753.1 | 756.3 | 766.7 | 777.1 | 781.3 |
| 17.5° | 737.5 | 741.6 | 754.2 | 766.7 | 771.9 |
| 20° | 720.8 | 725.0 | 740.6 | 755.2 | 761.5 |
| 22.5° | 702.0 | 707.2 | 725.0 | 740.6 | 746.9 |
| 25° | 681.1 | 687.4 | 705.1 | 722.9 | 731.2 |
| 27.5° | 658.2 | 665.5 | 685.3 | 704.1 | 711.4 |
| 30° | 634.2 | 642.6 | 662.4 | 682.2 | 689.5 |
| 32.5° | 608.1 | 615.4 | 639.4 | 658.2 | 665.5 |
| 35° | 582.1 | 589.4 | 612.3 | 633.2 | 640.5 |
| 37.5° | 553.9 | 563.3 | 586.2 | 605.0 | 612.3 |
| 40° | 524.7 | 534.1 | 556.0 | 577.9 | 584.1 |
| 42.5° | 496.5 | 504.9 | 525.7 | 545.5 | 551.8 |
| 45° | 467.3 | 474.6 | 495.5 | 513.2 | 522.6 |
| 47.5° | 437.1 | 444.4 | 465.2 | 481.9 | 487.1 |
| 50° | 406.8 | 414.1 | 431.8 | 446.4 | 452.7 |
| 52.5° | 376.6 | 383.9 | 400.6 | 414.1 | 420.4 |
| 55° | 346.3 | 351.5 | 367.2 | 379.7 | 384.9 |
| 57.5° | 316.1 | 320.2 | 332.8 | 346.3 | 349.4 |
| 60° | 284.8 | 290.0 | 301.5 | 310.8 | 315.0 |
| 62.5° | 256.6 | 258.7 | 269.1 | 277.5 | 282.7 |
| 65° | 227.4 | 228.4 | 235.7 | 245.1 | 247.2 |
| 67.5° | 197.1 | 198.2 | 205.5 | 210.7 | 212.8 |
| 70° | 169.0 | 169.0 | 174.2 | 178.4 | 180.5 |
| 72.5° | 141.9 | 140.8 | 143.9 | 148.1 | 150.2 |
| 75° | 113.7 | 113.7 | 116.8 | 118.9 | 120.0 |
| 77.5° | 89.7 | 87.6 | 89.7 | 91.8 | 91.8 |
| 80° | 65.7 | 64.7 | 64.7 | 65.7 | 64.7 |
| 82.5° | 44.9 | 43.8 | 44.9 | 42.8 | 41.7 |
| 85° | 25.0 | 24.0 | 22.9 | 20.9 | 20.9 |
| 87.5° | 8.3 | 7.3 | 7.3 | 8.3 | 8.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)