

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: P298008

Luminaire Tested: **D3X-WD-25L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298008
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-25L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

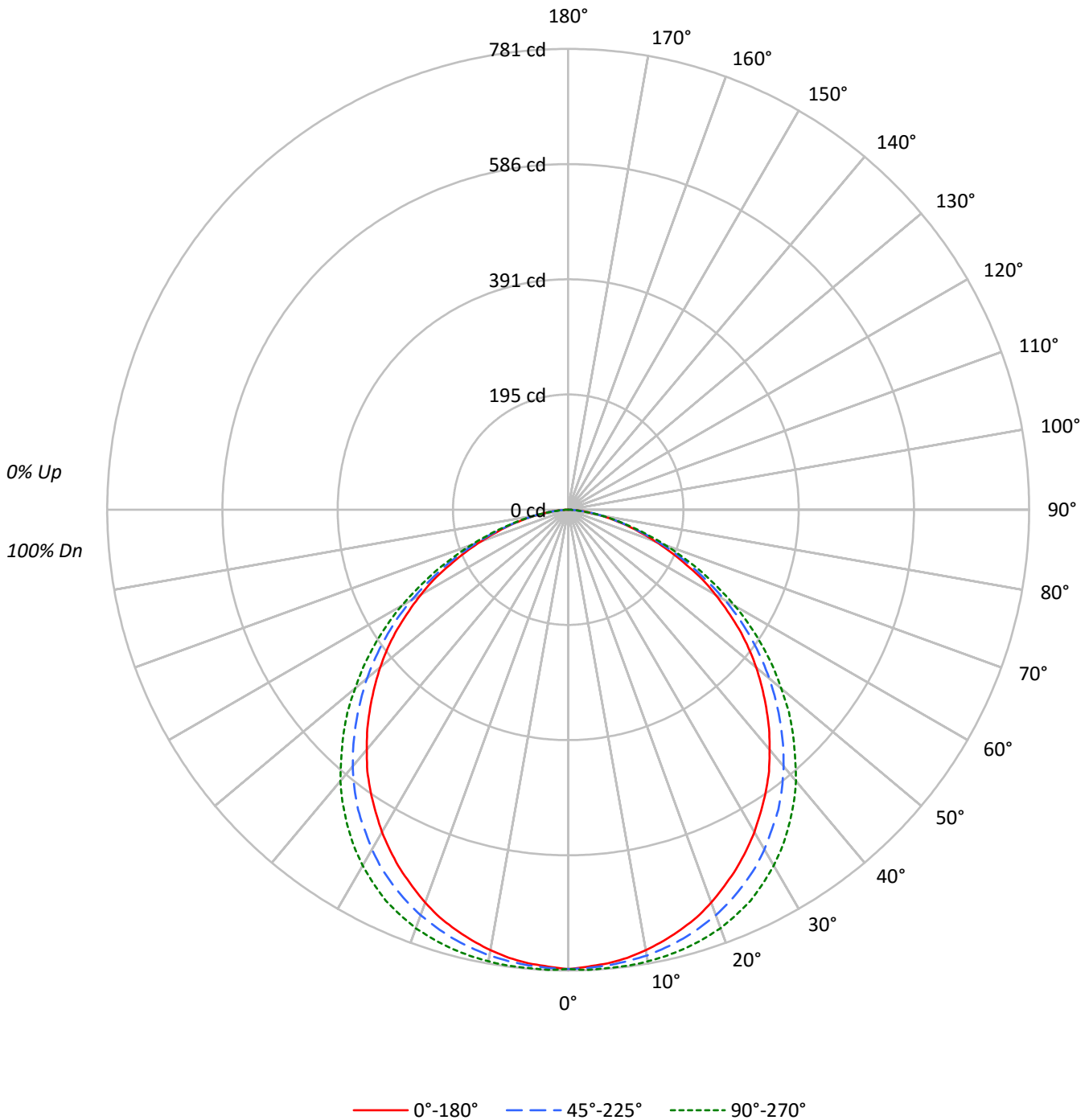
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 2095 | 2095 | 2095 |
| 5° | 2085 | 2094 | 2106 |
| 10° | 2072 | 2096 | 2124 |
| 15° | 2053 | 2097 | 2144 |
| 20° | 2029 | 2094 | 2162 |
| 25° | 1997 | 2084 | 2171 |
| 30° | 1960 | 2065 | 2163 |
| 35° | 1917 | 2039 | 2143 |
| 40° | 1864 | 1995 | 2109 |
| 45° | 1805 | 1934 | 2049 |
| 50° | 1740 | 1863 | 1971 |
| 55° | 1659 | 1771 | 1882 |
| 60° | 1552 | 1649 | 1758 |
| 65° | 1406 | 1492 | 1585 |
| 70° | 1241 | 1303 | 1374 |
| 75° | 1066 | 1090 | 1136 |
| 80° | 855 | 872 | 891 |
| 85° | 627 | 556 | 556 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 3.5 |
| 10°-20° | 212.5 | 10.2 |
| 20°-30° | 323.2 | 15.4 |
| 30°-40° | 386.7 | 18.5 |
| 40°-50° | 391.0 | 18.7 |
| 50°-60° | 336.4 | 16.1 |
| 60°-70° | 232.3 | 11.1 |
| 70°-80° | 112.6 | 5.4 |
| 80°-90° | 24.4 | 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° | 609.5 | 29.1 |
| 0°-40° | 996.3 | 47.6 |
| 0°-60° | 1723.7 | 82.4 |
| 0°-90° | 2093.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2093.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 778 | 778 | 778 | 778 | 778 | |
| 5° | 772 | 773 | 775 | 778 | 780 | 73 |
| 15° | 737 | 741 | 753 | 764 | 770 | 208 |
| 25° | 673 | 680 | 702 | 723 | 731 | 310 |
| 35° | 584 | 594 | 621 | 643 | 652 | 365 |
| 45° | 474 | 483 | 508 | 530 | 538 | 366 |
| 55° | 354 | 359 | 377 | 394 | 401 | 315 |
| 65° | 221 | 224 | 234 | 244 | 249 | 220 |
| 75° | 102 | 100 | 105 | 108 | 109 | 109 |
| 85° | 20 | 20 | 18 | 18 | 18 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 778.5 | 778.5 | 778.5 | 778.5 | 778.5 |
| 2.5° | 775.1 | 775.1 | 777.3 | 779.6 | 780.7 |
| 5° | 771.7 | 772.8 | 775.1 | 778.5 | 779.6 |
| 7.5° | 766.1 | 767.2 | 771.7 | 777.3 | 779.6 |
| 10° | 758.2 | 760.4 | 767.2 | 774.0 | 777.3 |
| 12.5° | 748.1 | 752.6 | 760.4 | 769.5 | 774.0 |
| 15° | 736.8 | 741.3 | 752.6 | 763.8 | 769.5 |
| 17.5° | 724.4 | 728.9 | 742.4 | 757.1 | 762.7 |
| 20° | 708.6 | 715.4 | 731.2 | 748.1 | 754.8 |
| 22.5° | 690.6 | 699.6 | 717.6 | 735.7 | 743.5 |
| 25° | 672.6 | 680.5 | 701.9 | 723.3 | 731.2 |
| 27.5° | 652.3 | 661.3 | 685.0 | 706.4 | 714.3 |
| 30° | 630.9 | 639.9 | 664.7 | 688.3 | 696.2 |
| 32.5° | 607.2 | 618.5 | 642.2 | 666.9 | 676.0 |
| 35° | 583.6 | 593.7 | 620.8 | 643.3 | 652.3 |
| 37.5° | 558.8 | 567.8 | 594.8 | 618.5 | 627.5 |
| 40° | 530.6 | 540.8 | 567.8 | 591.5 | 600.5 |
| 42.5° | 503.6 | 513.7 | 538.5 | 561.0 | 568.9 |
| 45° | 474.3 | 483.3 | 508.1 | 529.5 | 538.5 |
| 47.5° | 445.0 | 455.1 | 476.5 | 498.0 | 507.0 |
| 50° | 415.7 | 423.6 | 445.0 | 465.3 | 470.9 |
| 52.5° | 385.3 | 392.1 | 411.2 | 429.2 | 437.1 |
| 55° | 353.7 | 359.4 | 377.4 | 394.3 | 401.1 |
| 57.5° | 320.0 | 326.7 | 343.6 | 356.0 | 363.9 |
| 60° | 288.4 | 291.8 | 306.4 | 318.8 | 326.7 |
| 62.5° | 256.9 | 258.0 | 269.3 | 281.6 | 286.2 |
| 65° | 220.8 | 224.2 | 234.3 | 244.5 | 249.0 |
| 67.5° | 188.1 | 191.5 | 199.4 | 207.3 | 210.7 |
| 70° | 157.7 | 157.7 | 165.6 | 171.2 | 174.6 |
| 72.5° | 127.3 | 128.4 | 134.1 | 137.4 | 140.8 |
| 75° | 102.5 | 100.3 | 104.8 | 108.2 | 109.3 |
| 77.5° | 76.6 | 75.5 | 78.9 | 80.0 | 82.2 |
| 80° | 55.2 | 55.2 | 56.3 | 57.5 | 57.5 |
| 82.5° | 36.1 | 36.1 | 37.2 | 34.9 | 33.8 |
| 85° | 20.3 | 20.3 | 18.0 | 18.0 | 18.0 |
| 87.5° | 6.8 | 6.8 | 6.8 | 7.9 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)