

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: P298093

Luminaire Tested: **D3X-WD-25L92765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298093
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-25L92765-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1859.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

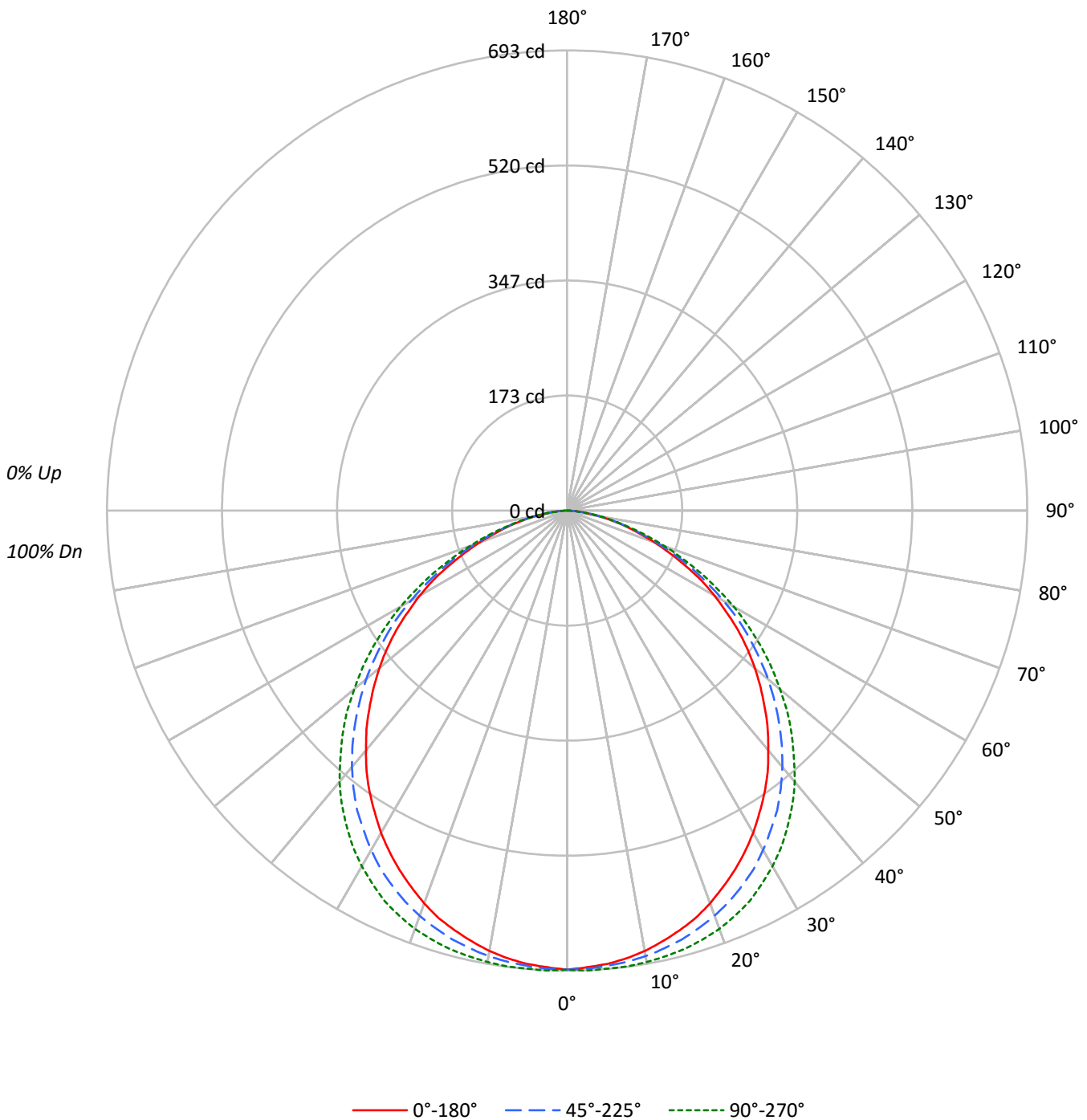
Input Watts (W): 18.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 1861 | 1861 | 1861 |
| 5° | 1851 | 1860 | 1870 |
| 10° | 1840 | 1862 | 1887 |
| 15° | 1823 | 1862 | 1904 |
| 20° | 1802 | 1860 | 1920 |
| 25° | 1774 | 1851 | 1928 |
| 30° | 1741 | 1835 | 1922 |
| 35° | 1703 | 1811 | 1903 |
| 40° | 1656 | 1772 | 1873 |
| 45° | 1603 | 1717 | 1820 |
| 50° | 1546 | 1655 | 1751 |
| 55° | 1474 | 1573 | 1671 |
| 60° | 1379 | 1465 | 1562 |
| 65° | 1249 | 1325 | 1408 |
| 70° | 1102 | 1157 | 1220 |
| 75° | 947 | 968 | 1010 |
| 80° | 759 | 775 | 790 |
| 85° | 556 | 494 | 494 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.5 | 3.5 |
| 10°-20° | 188.7 | 10.2 |
| 20°-30° | 287.1 | 15.4 |
| 30°-40° | 343.5 | 18.5 |
| 40°-50° | 347.3 | 18.7 |
| 50°-60° | 298.8 | 16.1 |
| 60°-70° | 206.3 | 11.1 |
| 70°-80° | 100.0 | 5.4 |
| 80°-90° | 21.7 | 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° | 541.4 | 29.1 |
| 0°-40° | 884.8 | 47.6 |
| 0°-60° | 1530.9 | 82.4 |
| 0°-90° | 1859.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1859.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 691 | 691 | 691 | 691 | 691 | |
| 5° | 685 | 686 | 688 | 691 | 692 | 65 |
| 15° | 654 | 658 | 668 | 678 | 683 | 185 |
| 25° | 597 | 604 | 623 | 642 | 649 | 275 |
| 35° | 518 | 527 | 551 | 571 | 579 | 324 |
| 45° | 421 | 429 | 451 | 470 | 478 | 325 |
| 55° | 314 | 319 | 335 | 350 | 356 | 280 |
| 65° | 196 | 199 | 208 | 217 | 221 | 195 |
| 75° | 91 | 89 | 93 | 96 | 97 | 97 |
| 85° | 18 | 18 | 16 | 16 | 16 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 691.4 | 691.4 | 691.4 | 691.4 | 691.4 |
| 2.5° | 688.4 | 688.4 | 690.4 | 692.4 | 693.4 |
| 5° | 685.4 | 686.4 | 688.4 | 691.4 | 692.4 |
| 7.5° | 680.4 | 681.4 | 685.4 | 690.4 | 692.4 |
| 10° | 673.4 | 675.4 | 681.4 | 687.4 | 690.4 |
| 12.5° | 664.4 | 668.4 | 675.4 | 683.4 | 687.4 |
| 15° | 654.4 | 658.4 | 668.4 | 678.4 | 683.4 |
| 17.5° | 643.4 | 647.4 | 659.4 | 672.4 | 677.4 |
| 20° | 629.4 | 635.4 | 649.4 | 664.4 | 670.4 |
| 22.5° | 613.4 | 621.4 | 637.4 | 653.4 | 660.4 |
| 25° | 597.4 | 604.4 | 623.4 | 642.4 | 649.4 |
| 27.5° | 579.4 | 587.4 | 608.4 | 627.4 | 634.4 |
| 30° | 560.4 | 568.4 | 590.4 | 611.4 | 618.4 |
| 32.5° | 539.3 | 549.3 | 570.4 | 592.4 | 600.4 |
| 35° | 518.3 | 527.3 | 551.3 | 571.4 | 579.4 |
| 37.5° | 496.3 | 504.3 | 528.3 | 549.3 | 557.4 |
| 40° | 471.3 | 480.3 | 504.3 | 525.3 | 533.3 |
| 42.5° | 447.3 | 456.3 | 478.3 | 498.3 | 505.3 |
| 45° | 421.3 | 429.3 | 451.3 | 470.3 | 478.3 |
| 47.5° | 395.3 | 404.3 | 423.3 | 442.3 | 450.3 |
| 50° | 369.2 | 376.2 | 395.3 | 413.3 | 418.3 |
| 52.5° | 342.2 | 348.2 | 365.2 | 381.2 | 388.2 |
| 55° | 314.2 | 319.2 | 335.2 | 350.2 | 356.2 |
| 57.5° | 284.2 | 290.2 | 305.2 | 316.2 | 323.2 |
| 60° | 256.2 | 259.2 | 272.2 | 283.2 | 290.2 |
| 62.5° | 228.1 | 229.1 | 239.2 | 250.2 | 254.2 |
| 65° | 196.1 | 199.1 | 208.1 | 217.1 | 221.1 |
| 67.5° | 167.1 | 170.1 | 177.1 | 184.1 | 187.1 |
| 70° | 140.1 | 140.1 | 147.1 | 152.1 | 155.1 |
| 72.5° | 113.1 | 114.1 | 119.1 | 122.1 | 125.1 |
| 75° | 91.1 | 89.1 | 93.1 | 96.1 | 97.1 |
| 77.5° | 68.0 | 67.0 | 70.0 | 71.0 | 73.0 |
| 80° | 49.0 | 49.0 | 50.0 | 51.0 | 51.0 |
| 82.5° | 32.0 | 32.0 | 33.0 | 31.0 | 30.0 |
| 85° | 18.0 | 18.0 | 16.0 | 16.0 | 16.0 |
| 87.5° | 6.0 | 6.0 | 6.0 | 7.0 | 6.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)