

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: P298091

Luminaire Tested: **D3X-WD-20L92765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298091
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-20L92765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1762.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

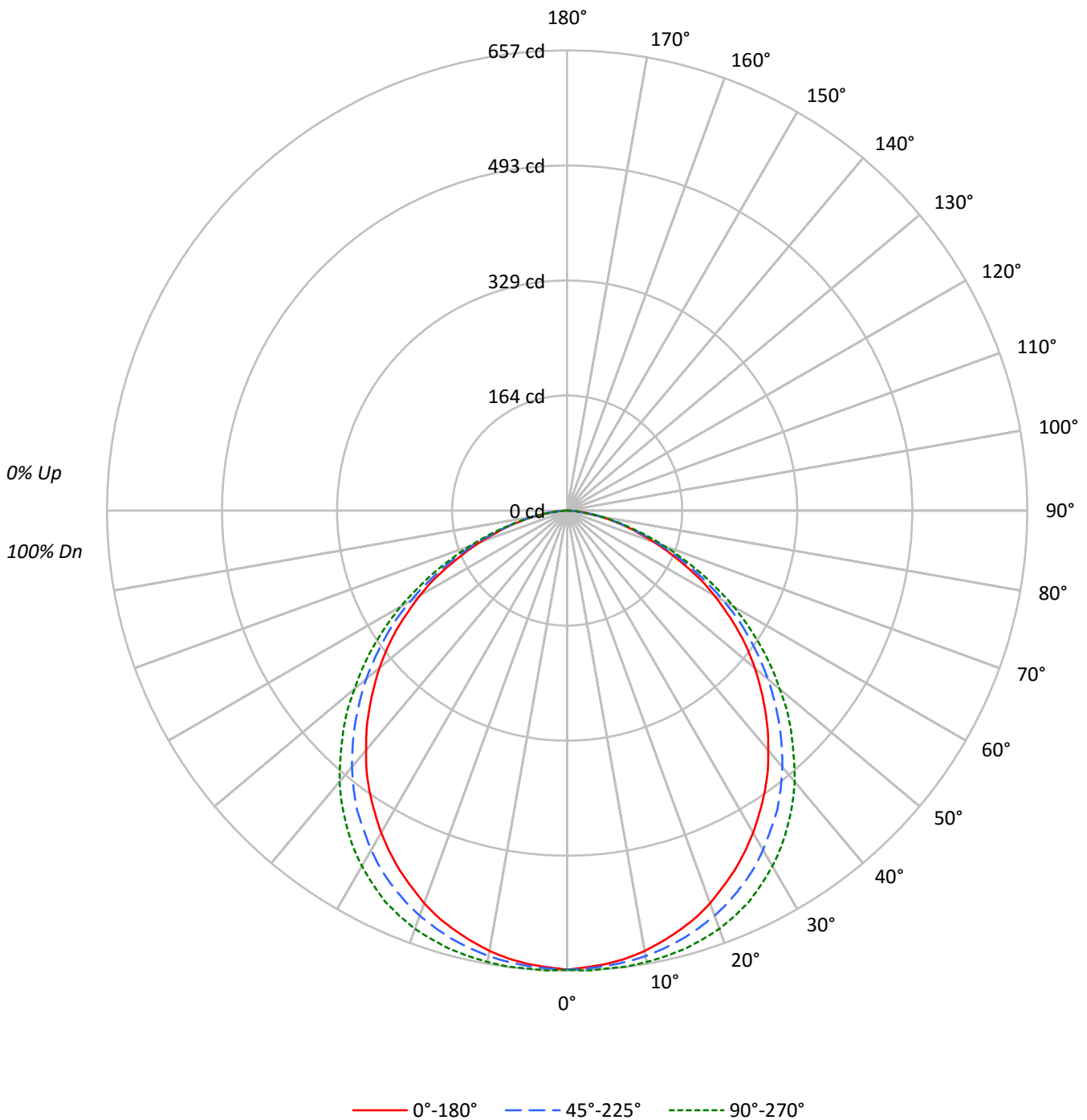
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 1764 | 1764 | 1764 |
| 5° | 1755 | 1763 | 1773 |
| 10° | 1744 | 1765 | 1788 |
| 15° | 1728 | 1765 | 1805 |
| 20° | 1708 | 1763 | 1820 |
| 25° | 1681 | 1754 | 1828 |
| 30° | 1650 | 1739 | 1821 |
| 35° | 1614 | 1717 | 1804 |
| 40° | 1569 | 1679 | 1776 |
| 45° | 1520 | 1628 | 1725 |
| 50° | 1465 | 1568 | 1659 |
| 55° | 1397 | 1491 | 1584 |
| 60° | 1307 | 1389 | 1480 |
| 65° | 1184 | 1256 | 1335 |
| 70° | 1045 | 1097 | 1157 |
| 75° | 897 | 917 | 957 |
| 80° | 721 | 735 | 750 |
| 85° | 528 | 469 | 469 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.1 | 3.5 |
| 10°-20° | 178.9 | 10.2 |
| 20°-30° | 272.1 | 15.4 |
| 30°-40° | 325.6 | 18.5 |
| 40°-50° | 329.1 | 18.7 |
| 50°-60° | 283.2 | 16.1 |
| 60°-70° | 195.6 | 11.1 |
| 70°-80° | 94.8 | 5.4 |
| 80°-90° | 20.6 | 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° | 513.1 | 29.1 |
| 0°-40° | 838.7 | 47.6 |
| 0°-60° | 1451.1 | 82.4 |
| 0°-90° | 1762.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1762.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 655 | 655 | 655 | 655 | 655 | |
| 5° | 650 | 651 | 652 | 655 | 656 | 62 |
| 15° | 620 | 624 | 634 | 643 | 648 | 175 |
| 25° | 566 | 573 | 591 | 609 | 616 | 261 |
| 35° | 491 | 500 | 523 | 542 | 549 | 307 |
| 45° | 399 | 407 | 428 | 446 | 453 | 308 |
| 55° | 298 | 302 | 318 | 332 | 338 | 266 |
| 65° | 186 | 189 | 197 | 206 | 210 | 185 |
| 75° | 86 | 84 | 88 | 91 | 92 | 92 |
| 85° | 17 | 17 | 15 | 15 | 15 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 655.4 | 655.4 | 655.4 | 655.4 | 655.4 |
| 2.5° | 652.5 | 652.5 | 654.4 | 656.3 | 657.3 |
| 5° | 649.7 | 650.6 | 652.5 | 655.4 | 656.3 |
| 7.5° | 644.9 | 645.9 | 649.7 | 654.4 | 656.3 |
| 10° | 638.3 | 640.2 | 645.9 | 651.6 | 654.4 |
| 12.5° | 629.8 | 633.5 | 640.2 | 647.8 | 651.6 |
| 15° | 620.3 | 624.1 | 633.5 | 643.0 | 647.8 |
| 17.5° | 609.8 | 613.6 | 625.0 | 637.3 | 642.1 |
| 20° | 596.6 | 602.2 | 615.5 | 629.8 | 635.4 |
| 22.5° | 581.4 | 589.0 | 604.1 | 619.3 | 626.0 |
| 25° | 566.2 | 572.8 | 590.9 | 608.9 | 615.5 |
| 27.5° | 549.1 | 556.7 | 576.6 | 594.7 | 601.3 |
| 30° | 531.1 | 538.7 | 559.6 | 579.5 | 586.1 |
| 32.5° | 511.2 | 520.7 | 540.6 | 561.5 | 569.1 |
| 35° | 491.3 | 499.8 | 522.6 | 541.5 | 549.1 |
| 37.5° | 470.4 | 478.0 | 500.8 | 520.7 | 528.3 |
| 40° | 446.7 | 455.2 | 478.0 | 497.9 | 505.5 |
| 42.5° | 423.9 | 432.5 | 453.3 | 472.3 | 479.0 |
| 45° | 399.3 | 406.9 | 427.7 | 445.8 | 453.3 |
| 47.5° | 374.6 | 383.2 | 401.2 | 419.2 | 426.8 |
| 50° | 350.0 | 356.6 | 374.6 | 391.7 | 396.4 |
| 52.5° | 324.4 | 330.1 | 346.2 | 361.3 | 368.0 |
| 55° | 297.8 | 302.5 | 317.7 | 331.9 | 337.6 |
| 57.5° | 269.4 | 275.0 | 289.3 | 299.7 | 306.3 |
| 60° | 242.8 | 245.6 | 258.0 | 268.4 | 275.0 |
| 62.5° | 216.2 | 217.2 | 226.7 | 237.1 | 240.9 |
| 65° | 185.9 | 188.7 | 197.3 | 205.8 | 209.6 |
| 67.5° | 158.4 | 161.2 | 167.9 | 174.5 | 177.4 |
| 70° | 132.8 | 132.8 | 139.4 | 144.2 | 147.0 |
| 72.5° | 107.2 | 108.1 | 112.9 | 115.7 | 118.6 |
| 75° | 86.3 | 84.4 | 88.2 | 91.0 | 92.0 |
| 77.5° | 64.5 | 63.5 | 66.4 | 67.3 | 69.2 |
| 80° | 46.5 | 46.5 | 47.4 | 48.4 | 48.4 |
| 82.5° | 30.3 | 30.3 | 31.3 | 29.4 | 28.5 |
| 85° | 17.1 | 17.1 | 15.2 | 15.2 | 15.2 |
| 87.5° | 5.7 | 5.7 | 5.7 | 6.6 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)