

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: P298335

Luminaire Tested: **D3X-WO-20L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298335
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-20L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1841.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

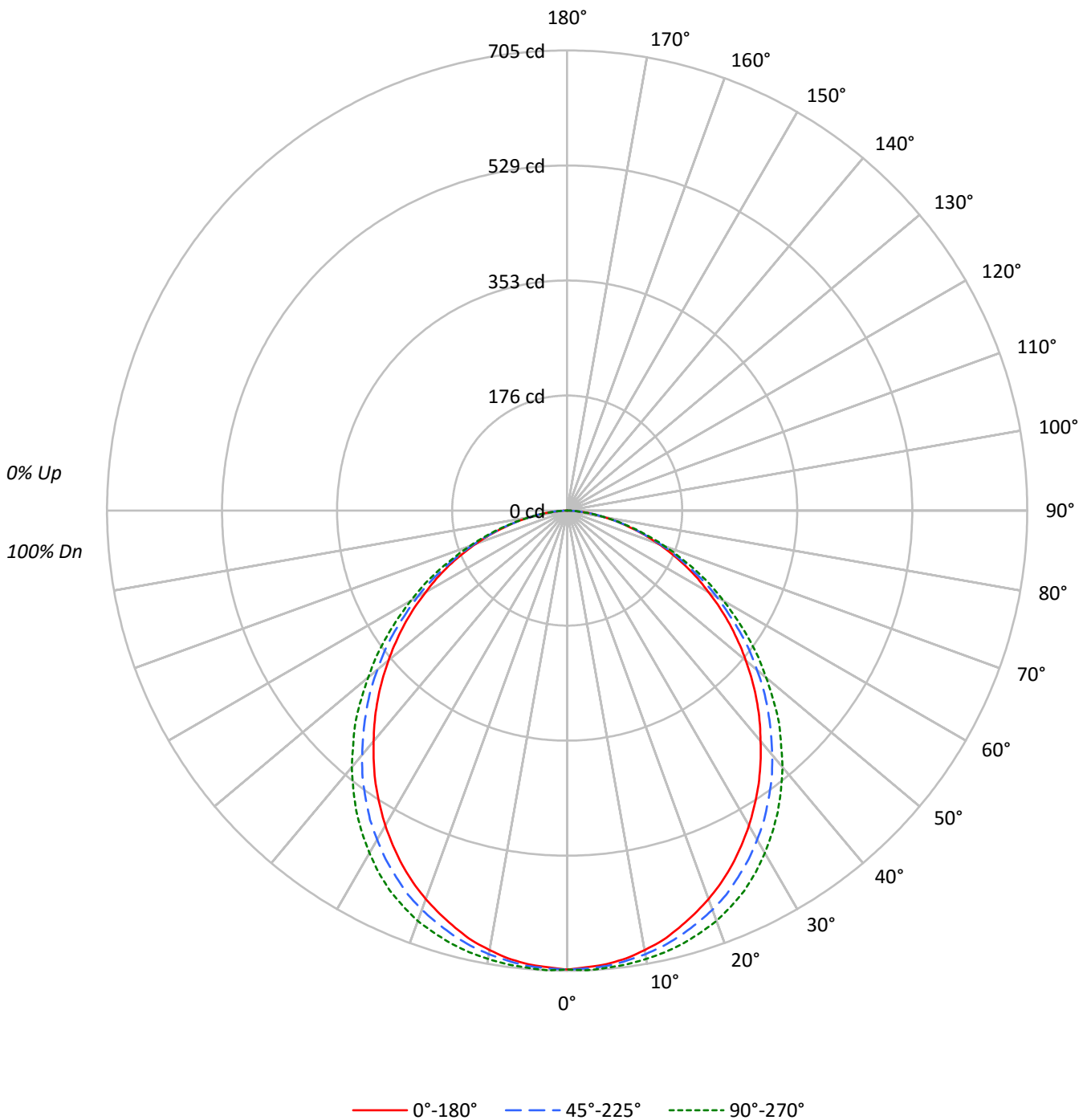
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 | 60 | | | | | 60 | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1892 | 1892 | 1892 |
| 5° | 1884 | 1892 | 1899 |
| 10° | 1868 | 1886 | 1906 |
| 15° | 1844 | 1877 | 1913 |
| 20° | 1814 | 1864 | 1916 |
| 25° | 1777 | 1840 | 1908 |
| 30° | 1732 | 1809 | 1883 |
| 35° | 1680 | 1768 | 1849 |
| 40° | 1620 | 1716 | 1803 |
| 45° | 1563 | 1657 | 1748 |
| 50° | 1497 | 1589 | 1665 |
| 55° | 1428 | 1514 | 1587 |
| 60° | 1347 | 1426 | 1490 |
| 65° | 1272 | 1319 | 1383 |
| 70° | 1168 | 1205 | 1248 |
| 75° | 1039 | 1068 | 1096 |
| 80° | 894 | 880 | 880 |
| 85° | 679 | 624 | 565 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.5 | 3.6 |
| 10°-20° | 190.1 | 10.3 |
| 20°-30° | 285.4 | 15.5 |
| 30°-40° | 335.9 | 18.2 |
| 40°-50° | 335.1 | 18.2 |
| 50°-60° | 287.5 | 15.6 |
| 60°-70° | 205.9 | 11.2 |
| 70°-80° | 109.1 | 5.9 |
| 80°-90° | 25.5 | 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° | 542.0 | 29.4 |
| 0°-40° | 877.9 | 47.7 |
| 0°-60° | 1500.5 | 81.5 |
| 0°-90° | 1841.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1841.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 703 | 703 | 703 | 703 | 703 | |
| 5° | 698 | 698 | 700 | 702 | 703 | 66 |
| 15° | 662 | 665 | 674 | 683 | 687 | 187 |
| 25° | 599 | 604 | 620 | 635 | 643 | 275 |
| 35° | 512 | 518 | 538 | 556 | 563 | 319 |
| 45° | 411 | 417 | 435 | 451 | 459 | 317 |
| 55° | 304 | 309 | 323 | 334 | 338 | 272 |
| 65° | 200 | 201 | 207 | 215 | 217 | 197 |
| 75° | 100 | 100 | 103 | 104 | 105 | 107 |
| 85° | 22 | 21 | 20 | 18 | 18 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 |
| 2.5° | 700.3 | 700.3 | 702.1 | 704.0 | 704.9 |
| 5° | 697.6 | 697.6 | 700.3 | 702.1 | 703.1 |
| 7.5° | 692.1 | 692.1 | 695.7 | 699.4 | 701.2 |
| 10° | 683.8 | 685.6 | 690.2 | 695.7 | 697.6 |
| 12.5° | 674.6 | 676.5 | 682.9 | 690.2 | 693.0 |
| 15° | 661.8 | 664.6 | 673.7 | 682.9 | 686.6 |
| 17.5° | 648.1 | 651.7 | 662.7 | 673.7 | 678.3 |
| 20° | 633.4 | 637.1 | 650.8 | 663.6 | 669.1 |
| 22.5° | 616.9 | 621.5 | 637.1 | 650.8 | 656.3 |
| 25° | 598.6 | 604.1 | 619.6 | 635.2 | 642.6 |
| 27.5° | 578.4 | 584.8 | 602.2 | 618.7 | 625.1 |
| 30° | 557.3 | 564.6 | 582.1 | 599.5 | 605.9 |
| 32.5° | 534.4 | 540.8 | 561.9 | 578.4 | 584.8 |
| 35° | 511.5 | 517.9 | 538.1 | 556.4 | 562.8 |
| 37.5° | 486.7 | 495.0 | 515.2 | 531.6 | 538.1 |
| 40° | 461.1 | 469.3 | 488.6 | 507.8 | 513.3 |
| 42.5° | 436.3 | 443.7 | 462.0 | 479.4 | 484.9 |
| 45° | 410.7 | 417.1 | 435.4 | 451.0 | 459.2 |
| 47.5° | 384.1 | 390.5 | 408.8 | 423.5 | 428.1 |
| 50° | 357.5 | 363.9 | 379.5 | 392.3 | 397.8 |
| 52.5° | 330.9 | 337.3 | 352.0 | 363.9 | 369.4 |
| 55° | 304.3 | 308.9 | 322.7 | 333.7 | 338.2 |
| 57.5° | 277.7 | 281.4 | 292.4 | 304.3 | 307.1 |
| 60° | 250.2 | 254.8 | 264.9 | 273.2 | 276.8 |
| 62.5° | 225.5 | 227.3 | 236.5 | 243.8 | 248.4 |
| 65° | 199.8 | 200.7 | 207.2 | 215.4 | 217.2 |
| 67.5° | 173.2 | 174.2 | 180.6 | 185.2 | 187.0 |
| 70° | 148.5 | 148.5 | 153.1 | 156.7 | 158.6 |
| 72.5° | 124.7 | 123.7 | 126.5 | 130.2 | 132.0 |
| 75° | 99.9 | 99.9 | 102.7 | 104.5 | 105.4 |
| 77.5° | 78.8 | 77.0 | 78.8 | 80.7 | 80.7 |
| 80° | 57.7 | 56.8 | 56.8 | 57.7 | 56.8 |
| 82.5° | 39.4 | 38.5 | 39.4 | 37.6 | 36.7 |
| 85° | 22.0 | 21.1 | 20.2 | 18.3 | 18.3 |
| 87.5° | 7.3 | 6.4 | 6.4 | 7.3 | 7.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)