

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: P298167

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1727.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

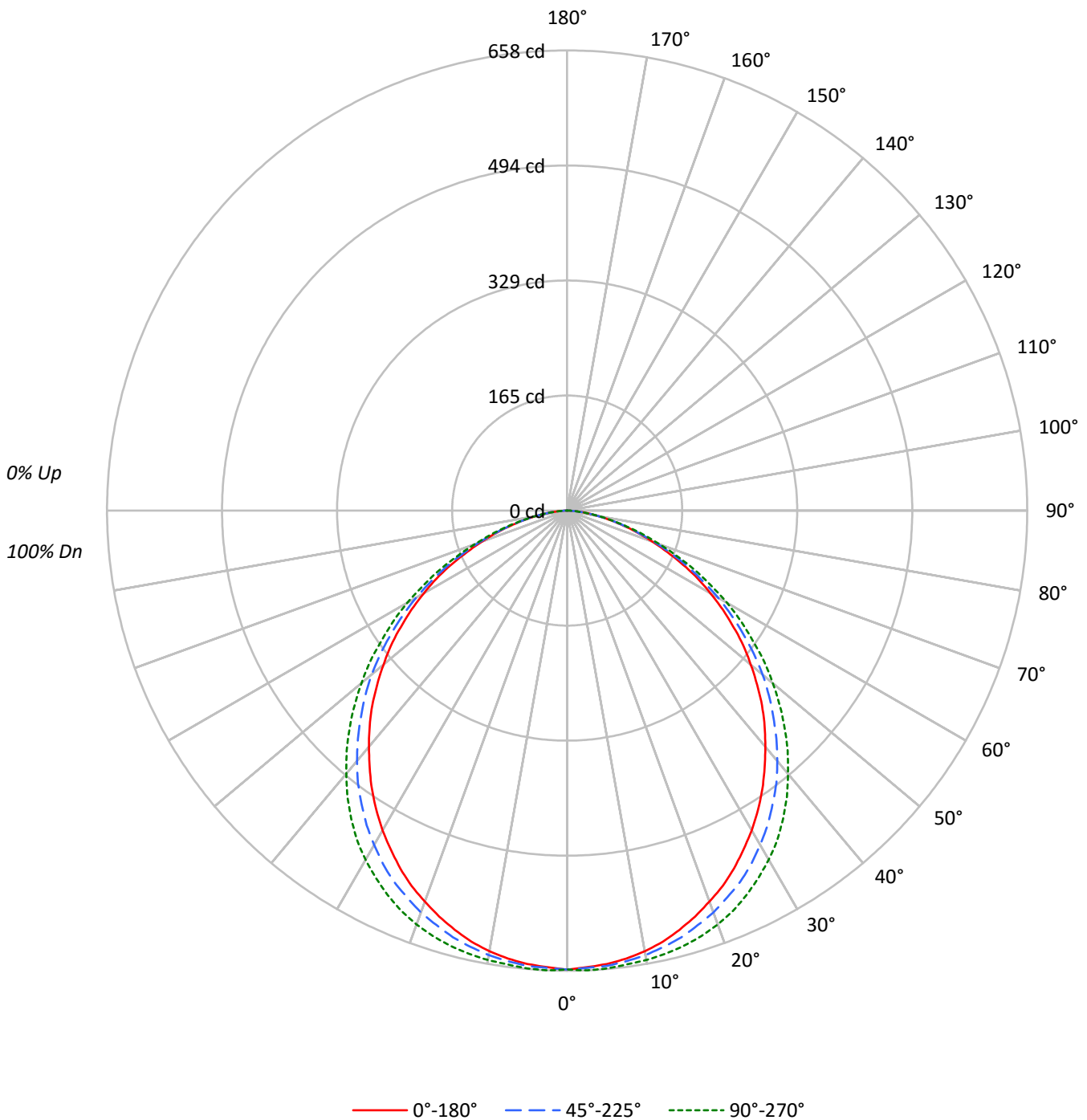
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1766 | 1766 | 1766 |
| 5° | 1758 | 1765 | 1775 |
| 10° | 1748 | 1763 | 1783 |
| 15° | 1729 | 1760 | 1795 |
| 20° | 1704 | 1751 | 1803 |
| 25° | 1676 | 1739 | 1802 |
| 30° | 1641 | 1715 | 1792 |
| 35° | 1599 | 1683 | 1768 |
| 40° | 1549 | 1642 | 1726 |
| 45° | 1500 | 1587 | 1674 |
| 50° | 1435 | 1527 | 1608 |
| 55° | 1363 | 1441 | 1518 |
| 60° | 1273 | 1342 | 1421 |
| 65° | 1161 | 1214 | 1284 |
| 70° | 1017 | 1060 | 1103 |
| 75° | 867 | 886 | 924 |
| 80° | 696 | 710 | 724 |
| 85° | 509 | 482 | 454 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.1 | 3.6 |
| 10°-20° | 178.3 | 10.3 |
| 20°-30° | 269.5 | 15.6 |
| 30°-40° | 320.2 | 18.5 |
| 40°-50° | 321.4 | 18.6 |
| 50°-60° | 274.5 | 15.9 |
| 60°-70° | 189.1 | 11.0 |
| 70°-80° | 91.7 | 5.3 |
| 80°-90° | 20.1 | 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° | 510.0 | 29.5 |
| 0°-40° | 830.1 | 48.1 |
| 0°-60° | 1426.1 | 82.6 |
| 0°-90° | 1727.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1727.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 656 | 656 | 656 | 656 | 656 | |
| 5° | 651 | 651 | 654 | 655 | 657 | 62 |
| 15° | 621 | 623 | 632 | 640 | 644 | 175 |
| 25° | 565 | 569 | 586 | 601 | 607 | 260 |
| 35° | 487 | 494 | 512 | 532 | 538 | 304 |
| 45° | 394 | 400 | 417 | 434 | 440 | 303 |
| 55° | 291 | 295 | 307 | 320 | 324 | 260 |
| 65° | 182 | 182 | 191 | 199 | 202 | 181 |
| 75° | 83 | 82 | 85 | 87 | 89 | 90 |
| 85° | 16 | 16 | 16 | 15 | 15 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 656.3 | 656.3 | 656.3 | 656.3 | 656.3 |
| 2.5° | 653.5 | 653.5 | 654.5 | 657.2 | 658.1 |
| 5° | 650.8 | 650.8 | 653.5 | 655.4 | 657.2 |
| 7.5° | 646.2 | 647.1 | 649.9 | 653.5 | 654.5 |
| 10° | 639.8 | 640.7 | 645.3 | 649.9 | 652.6 |
| 12.5° | 631.6 | 633.4 | 638.9 | 646.2 | 649.0 |
| 15° | 620.6 | 623.3 | 631.6 | 639.8 | 644.4 |
| 17.5° | 608.6 | 612.3 | 621.5 | 633.4 | 638.0 |
| 20° | 594.9 | 599.5 | 611.4 | 624.2 | 629.7 |
| 22.5° | 581.1 | 584.8 | 598.6 | 613.2 | 619.6 |
| 25° | 564.6 | 569.2 | 585.7 | 601.3 | 606.8 |
| 27.5° | 546.3 | 552.7 | 570.1 | 586.6 | 592.1 |
| 30° | 528.0 | 533.5 | 551.8 | 570.1 | 576.6 |
| 32.5° | 507.8 | 513.3 | 533.5 | 551.8 | 559.1 |
| 35° | 486.7 | 494.1 | 512.4 | 531.6 | 538.1 |
| 37.5° | 463.8 | 472.1 | 491.3 | 507.8 | 516.1 |
| 40° | 440.9 | 448.2 | 467.5 | 484.9 | 491.3 |
| 42.5° | 418.0 | 424.4 | 442.7 | 461.1 | 466.6 |
| 45° | 394.1 | 399.6 | 417.1 | 434.5 | 440.0 |
| 47.5° | 368.5 | 374.9 | 391.4 | 406.1 | 412.5 |
| 50° | 342.8 | 349.2 | 364.8 | 378.6 | 384.1 |
| 52.5° | 318.1 | 321.7 | 336.4 | 349.2 | 355.6 |
| 55° | 290.6 | 295.2 | 307.1 | 319.9 | 323.6 |
| 57.5° | 264.0 | 266.7 | 278.7 | 289.7 | 295.2 |
| 60° | 236.5 | 238.3 | 249.3 | 257.6 | 264.0 |
| 62.5° | 210.8 | 210.8 | 219.1 | 228.2 | 231.9 |
| 65° | 182.4 | 182.4 | 190.7 | 198.9 | 201.7 |
| 67.5° | 154.9 | 156.7 | 162.2 | 168.7 | 170.5 |
| 70° | 129.2 | 129.2 | 134.7 | 139.3 | 140.2 |
| 72.5° | 106.3 | 105.4 | 108.2 | 111.8 | 113.7 |
| 75° | 83.4 | 81.6 | 85.2 | 87.1 | 88.9 |
| 77.5° | 63.2 | 62.3 | 64.2 | 66.0 | 66.0 |
| 80° | 44.9 | 44.0 | 45.8 | 45.8 | 46.7 |
| 82.5° | 29.3 | 30.2 | 30.2 | 29.3 | 28.4 |
| 85° | 16.5 | 16.5 | 15.6 | 14.7 | 14.7 |
| 87.5° | 5.5 | 5.5 | 5.5 | 6.4 | 6.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)