

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: P297628

Luminaire Tested: **D3X-WD-26L93050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-26L93050-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2370.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

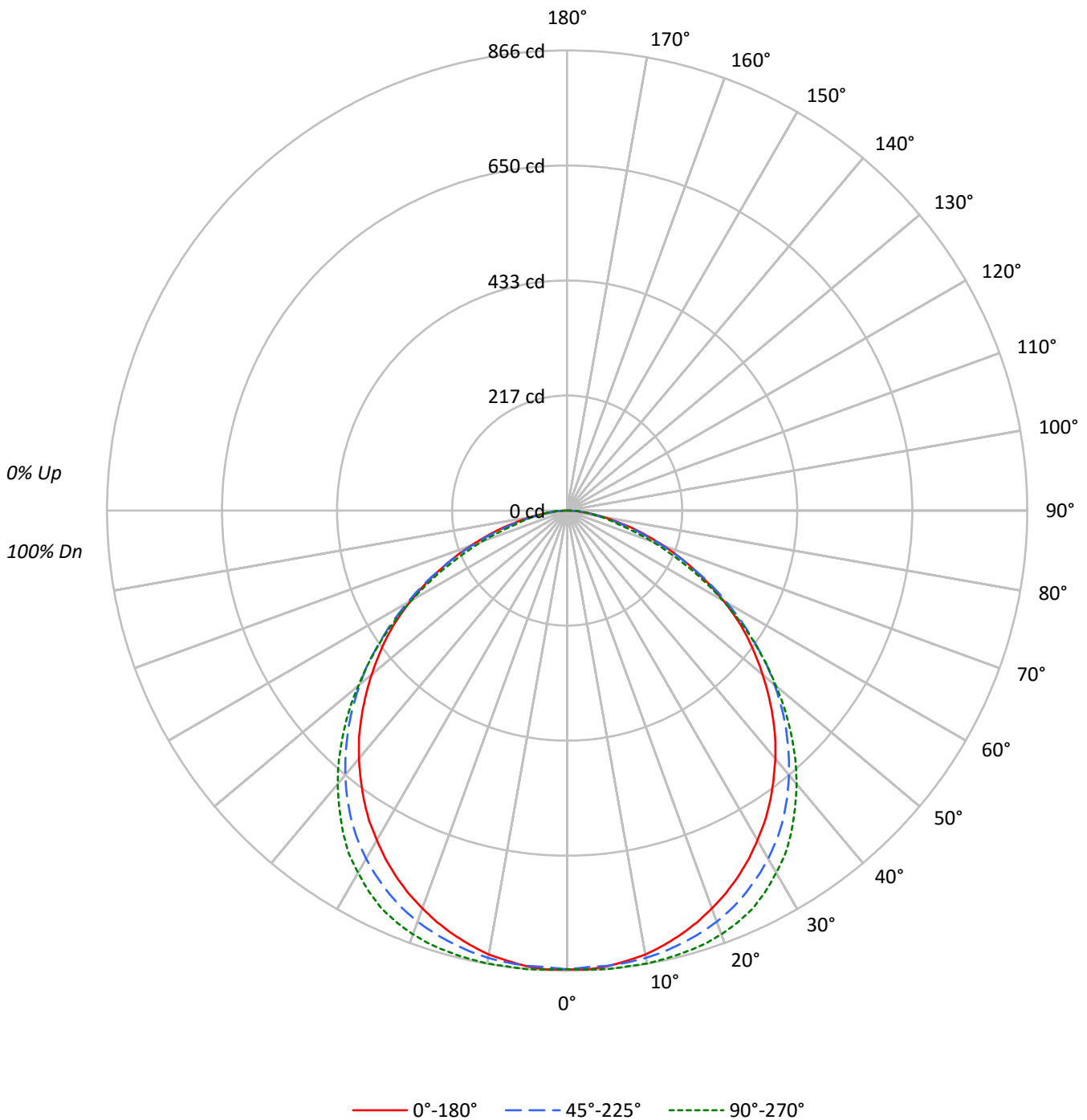
Input Watts (W): 24.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 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 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2323 | 2323 | 2323 |
| 5° | 2326 | 2323 | 2340 |
| 10° | 2319 | 2336 | 2365 |
| 15° | 2302 | 2346 | 2396 |
| 20° | 2281 | 2357 | 2430 |
| 25° | 2258 | 2359 | 2453 |
| 30° | 2225 | 2350 | 2446 |
| 35° | 2190 | 2328 | 2419 |
| 40° | 2141 | 2282 | 2360 |
| 45° | 2081 | 2218 | 2271 |
| 50° | 2011 | 2130 | 2148 |
| 55° | 1940 | 2015 | 2005 |
| 60° | 1828 | 1868 | 1822 |
| 65° | 1684 | 1691 | 1596 |
| 70° | 1507 | 1474 | 1340 |
| 75° | 1309 | 1221 | 1033 |
| 80° | 1049 | 951 | 951 |
| 85° | 750 | 883 | 914 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.1 | 3.5 |
| 10°-20° | 238.3 | 10.1 |
| 20°-30° | 365.9 | 15.4 |
| 30°-40° | 440.7 | 18.6 |
| 40°-50° | 445.3 | 18.8 |
| 50°-60° | 379.8 | 16.0 |
| 60°-70° | 260.0 | 11.0 |
| 70°-80° | 125.5 | 5.3 |
| 80°-90° | 32.3 | 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° | 686.3 | 29.0 |
| 0°-40° | 1127.0 | 47.6 |
| 0°-60° | 1952.2 | 82.4 |
| 0°-90° | 2370.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2370.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 863 | 863 | 863 | 863 | 863 | |
| 5° | 861 | 861 | 860 | 865 | 866 | 82 |
| 15° | 826 | 833 | 842 | 857 | 860 | 233 |
| 25° | 761 | 772 | 794 | 818 | 826 | 350 |
| 35° | 666 | 681 | 709 | 731 | 736 | 416 |
| 45° | 547 | 562 | 583 | 597 | 597 | 422 |
| 55° | 414 | 421 | 430 | 432 | 427 | 368 |
| 65° | 264 | 268 | 266 | 256 | 251 | 262 |
| 75° | 126 | 126 | 117 | 104 | 99 | 134 |
| 85° | 24 | 26 | 29 | 30 | 30 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297628

CATALOG NUMBER: D3X-WD-26L93050-LD5-UNV-14-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 863.3 | 863.3 | 863.3 | 863.3 | 863.3 |
| 2.5° | 864.3 | 863.3 | 860.1 | 864.3 | 864.3 |
| 5° | 861.1 | 861.1 | 860.1 | 865.4 | 866.4 |
| 7.5° | 854.8 | 856.9 | 858.0 | 864.3 | 865.4 |
| 10° | 848.5 | 850.6 | 854.8 | 863.3 | 865.4 |
| 12.5° | 837.9 | 842.1 | 849.5 | 861.1 | 863.3 |
| 15° | 826.2 | 832.6 | 842.1 | 856.9 | 860.1 |
| 17.5° | 812.5 | 820.9 | 833.6 | 850.6 | 855.9 |
| 20° | 796.6 | 806.1 | 823.1 | 842.1 | 848.5 |
| 22.5° | 779.7 | 790.3 | 810.4 | 832.6 | 838.9 |
| 25° | 760.6 | 772.3 | 794.5 | 817.8 | 826.2 |
| 27.5° | 739.5 | 752.2 | 776.5 | 800.8 | 808.3 |
| 30° | 716.2 | 730.0 | 756.4 | 780.7 | 787.1 |
| 32.5° | 692.9 | 706.7 | 734.2 | 757.5 | 764.9 |
| 35° | 666.5 | 681.3 | 708.8 | 731.0 | 736.3 |
| 37.5° | 637.9 | 652.7 | 680.2 | 702.5 | 704.6 |
| 40° | 609.4 | 624.2 | 649.6 | 669.7 | 671.8 |
| 42.5° | 579.7 | 593.5 | 616.8 | 633.7 | 635.8 |
| 45° | 546.9 | 561.8 | 582.9 | 596.7 | 596.7 |
| 47.5° | 514.1 | 529.0 | 546.9 | 556.5 | 556.5 |
| 50° | 480.3 | 494.0 | 508.9 | 514.1 | 513.1 |
| 52.5° | 446.4 | 459.1 | 471.8 | 472.9 | 470.8 |
| 55° | 413.6 | 421.1 | 429.5 | 431.6 | 427.4 |
| 57.5° | 377.7 | 384.0 | 389.3 | 386.1 | 383.0 |
| 60° | 339.6 | 345.9 | 347.0 | 341.7 | 338.5 |
| 62.5° | 302.6 | 307.9 | 307.9 | 299.4 | 294.1 |
| 65° | 264.5 | 267.7 | 265.5 | 256.0 | 250.7 |
| 67.5° | 228.5 | 230.6 | 226.4 | 216.9 | 208.4 |
| 70° | 191.5 | 192.5 | 187.3 | 175.6 | 170.3 |
| 72.5° | 157.6 | 158.7 | 152.3 | 138.6 | 132.2 |
| 75° | 125.9 | 125.9 | 117.4 | 103.7 | 99.4 |
| 77.5° | 94.2 | 97.3 | 87.8 | 80.4 | 80.4 |
| 80° | 67.7 | 70.9 | 61.4 | 62.4 | 61.4 |
| 82.5° | 44.4 | 47.6 | 44.4 | 44.4 | 44.4 |
| 85° | 24.3 | 26.4 | 28.6 | 29.6 | 29.6 |
| 87.5° | 7.4 | 12.7 | 13.8 | 14.8 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)