

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: P297914

Luminaire Tested: **D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2774.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

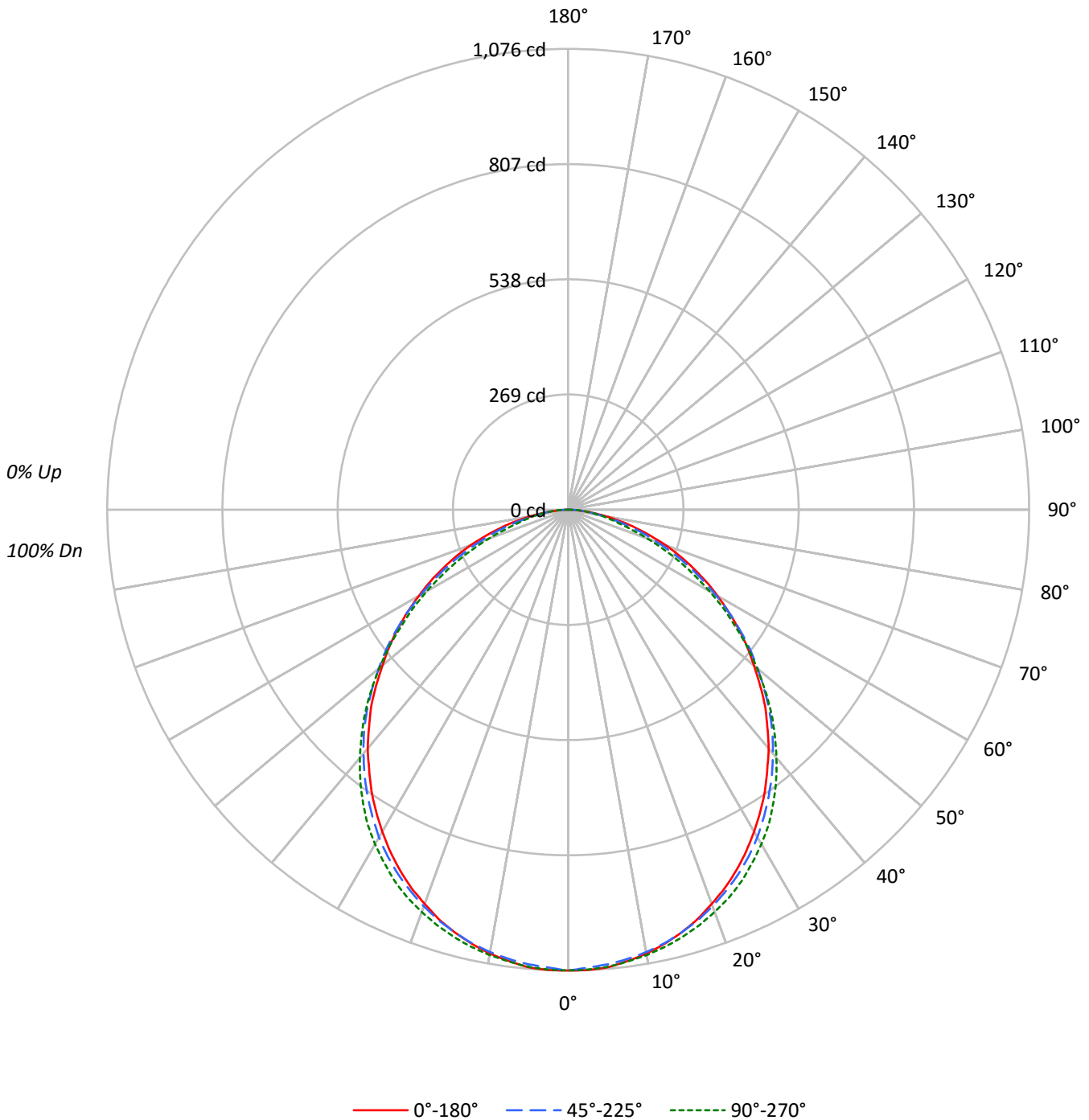
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297914

CATALOG NUMBER: D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P297914

CATALOG NUMBER: D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K

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 | 95 | 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 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 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 | 46 | 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 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2895 | 2895 | 2895 |
| 5° | 2897 | 2878 | 2894 |
| 10° | 2876 | 2866 | 2885 |
| 15° | 2847 | 2847 | 2876 |
| 20° | 2805 | 2822 | 2862 |
| 25° | 2758 | 2790 | 2842 |
| 30° | 2696 | 2744 | 2802 |
| 35° | 2631 | 2681 | 2743 |
| 40° | 2557 | 2611 | 2656 |
| 45° | 2475 | 2528 | 2551 |
| 50° | 2368 | 2417 | 2407 |
| 55° | 2278 | 2295 | 2234 |
| 60° | 2165 | 2133 | 2051 |
| 65° | 2044 | 1962 | 1827 |
| 70° | 1897 | 1740 | 1545 |
| 75° | 1687 | 1492 | 1272 |
| 80° | 1402 | 1221 | 1184 |
| 85° | 1016 | 1090 | 1090 |



TEST NUMBER: P297914

CATALOG NUMBER: D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.5 | 3.7 |
| 10°-20° | 289.2 | 10.4 |
| 20°-30° | 433.5 | 15.6 |
| 30°-40° | 510.7 | 18.4 |
| 40°-50° | 509.4 | 18.4 |
| 50°-60° | 433.3 | 15.6 |
| 60°-70° | 302.4 | 10.9 |
| 70°-80° | 153.7 | 5.5 |
| 80°-90° | 40.2 | 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° | 824.3 | 29.7 |
| 0°-40° | 1335.0 | 48.1 |
| 0°-60° | 2277.7 | 82.1 |
| 0°-90° | 2774.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2774.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1076 | 1076 | 1076 | 1076 | 1076 | |
| 5° | 1072 | 1070 | 1065 | 1071 | 1071 | 102 |
| 15° | 1022 | 1022 | 1022 | 1031 | 1032 | 288 |
| 25° | 929 | 930 | 940 | 954 | 957 | 428 |
| 35° | 801 | 802 | 816 | 832 | 835 | 500 |
| 45° | 650 | 653 | 664 | 669 | 670 | 500 |
| 55° | 486 | 486 | 489 | 482 | 476 | 434 |
| 65° | 321 | 316 | 308 | 292 | 287 | 318 |
| 75° | 162 | 156 | 144 | 126 | 122 | 172 |
| 85° | 33 | 34 | 35 | 35 | 35 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297914

CATALOG NUMBER: D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1075.9 | 1075.9 | 1075.9 | 1075.9 | 1075.9 |
| 2.5° | 1075.9 | 1074.8 | 1070.1 | 1074.8 | 1074.8 |
| 5° | 1072.4 | 1070.1 | 1065.4 | 1071.2 | 1071.2 |
| 7.5° | 1063.0 | 1061.8 | 1058.3 | 1064.2 | 1064.2 |
| 10° | 1052.4 | 1051.2 | 1048.9 | 1055.9 | 1055.9 |
| 12.5° | 1038.3 | 1038.3 | 1037.1 | 1044.2 | 1045.4 |
| 15° | 1021.8 | 1021.8 | 1021.8 | 1031.3 | 1032.4 |
| 17.5° | 1003.0 | 1001.9 | 1005.4 | 1016.0 | 1017.1 |
| 20° | 979.5 | 980.7 | 985.4 | 997.2 | 999.5 |
| 22.5° | 956.0 | 957.2 | 963.1 | 977.2 | 980.7 |
| 25° | 929.0 | 930.1 | 939.5 | 953.6 | 957.2 |
| 27.5° | 899.6 | 901.9 | 912.5 | 927.8 | 930.1 |
| 30° | 867.8 | 870.2 | 883.1 | 898.4 | 901.9 |
| 32.5° | 834.9 | 838.4 | 850.2 | 866.6 | 871.3 |
| 35° | 800.8 | 802.0 | 816.1 | 832.5 | 834.9 |
| 37.5° | 763.2 | 766.7 | 780.8 | 794.9 | 797.3 |
| 40° | 727.9 | 730.2 | 743.2 | 754.9 | 756.1 |
| 42.5° | 687.9 | 691.4 | 705.5 | 713.8 | 713.8 |
| 45° | 650.3 | 652.6 | 664.4 | 669.1 | 670.3 |
| 47.5° | 607.9 | 610.3 | 620.9 | 623.2 | 623.2 |
| 50° | 565.6 | 571.5 | 577.4 | 577.4 | 575.0 |
| 52.5° | 526.8 | 528.0 | 535.0 | 530.3 | 528.0 |
| 55° | 485.6 | 485.6 | 489.2 | 482.1 | 476.2 |
| 57.5° | 444.5 | 444.5 | 444.5 | 435.1 | 430.4 |
| 60° | 402.2 | 401.0 | 396.3 | 384.5 | 381.0 |
| 62.5° | 362.2 | 358.6 | 351.6 | 339.8 | 332.8 |
| 65° | 321.0 | 316.3 | 308.1 | 291.6 | 286.9 |
| 67.5° | 282.2 | 274.0 | 264.6 | 249.3 | 241.1 |
| 70° | 241.1 | 234.0 | 221.1 | 203.4 | 196.4 |
| 72.5° | 201.1 | 194.0 | 183.4 | 165.8 | 155.2 |
| 75° | 162.3 | 156.4 | 143.5 | 125.8 | 122.3 |
| 77.5° | 124.6 | 121.1 | 108.2 | 100.0 | 98.8 |
| 80° | 90.5 | 89.4 | 78.8 | 76.4 | 76.4 |
| 82.5° | 60.0 | 58.8 | 55.3 | 55.3 | 54.1 |
| 85° | 32.9 | 34.1 | 35.3 | 35.3 | 35.3 |
| 87.5° | 11.8 | 14.1 | 16.5 | 16.5 | 16.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)