

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: P297915

Luminaire Tested: **D3X-WO-35L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297915  
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-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3030.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 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

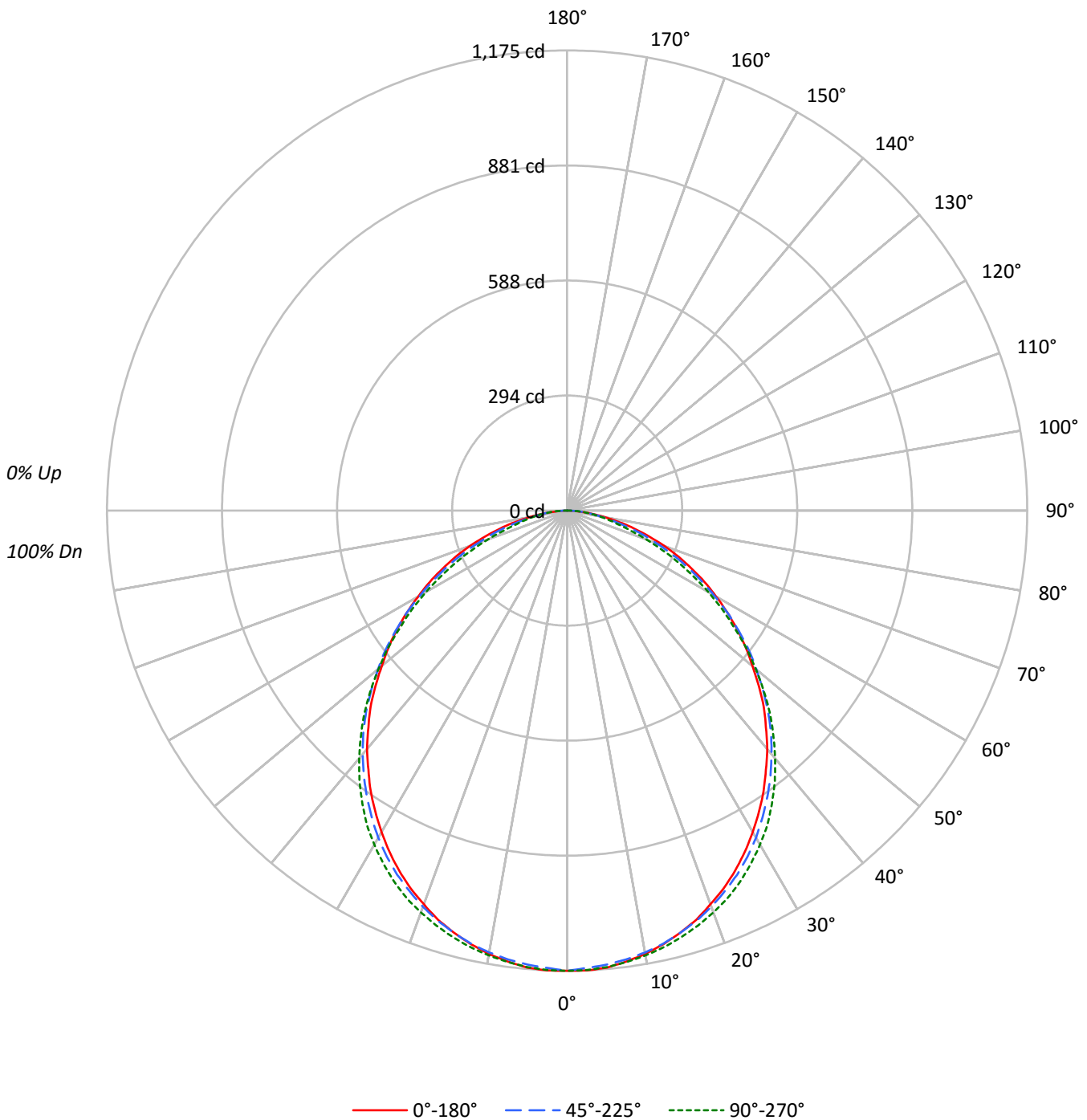
Input Watts (W): 34.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3162 | 3162 | 3162 |
| 5°  | 3164 | 3143 | 3161 |
| 10° | 3141 | 3131 | 3152 |
| 15° | 3109 | 3109 | 3142 |
| 20° | 3064 | 3082 | 3126 |
| 25° | 3013 | 3047 | 3104 |
| 30° | 2945 | 2997 | 3061 |
| 35° | 2873 | 2928 | 2996 |
| 40° | 2793 | 2851 | 2901 |
| 45° | 2703 | 2762 | 2786 |
| 50° | 2586 | 2640 | 2629 |
| 55° | 2489 | 2507 | 2441 |
| 60° | 2364 | 2329 | 2239 |
| 65° | 2232 | 2143 | 1996 |
| 70° | 2072 | 1900 | 1688 |
| 75° | 1842 | 1629 | 1389 |
| 80° | 1533 | 1334 | 1294 |
| 85° | 1112 | 1189 | 1189 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.9  | 3.7       |
| 10°-20°   | 315.9  | 10.4      |
| 20°-30°   | 473.5  | 15.6      |
| 30°-40°   | 557.9  | 18.4      |
| 40°-50°   | 556.4  | 18.4      |
| 50°-60°   | 473.3  | 15.6      |
| 60°-70°   | 330.3  | 10.9      |
| 70°-80°   | 167.9  | 5.5       |
| 80°-90°   | 43.8   | 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°    | 900.3  | 29.7      |
| 0°-40°    | 1458.2 | 48.1      |
| 0°-60°    | 2487.9 | 82.1      |
| 0°-90°    | 3030.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3030.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1175 | 1175  | 1175 | 1175  | 1175 |      |
| 5°  | 1171 | 1169  | 1164 | 1170  | 1170 | 111  |
| 15° | 1116 | 1116  | 1116 | 1126  | 1128 | 315  |
| 25° | 1015 | 1016  | 1026 | 1042  | 1046 | 467  |
| 35° | 875  | 876   | 891  | 909   | 912  | 546  |
| 45° | 710  | 713   | 726  | 731   | 732  | 546  |
| 55° | 530  | 530   | 534  | 527   | 520  | 474  |
| 65° | 351  | 346   | 336  | 318   | 313  | 348  |
| 75° | 177  | 171   | 157  | 137   | 134  | 188  |
| 85° | 36   | 37    | 38   | 38    | 38   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1175.2 | 1175.2 | 1175.2 | 1175.2 | 1175.2 |
| 2.5°  | 1175.2 | 1173.9 | 1168.8 | 1173.9 | 1173.9 |
| 5°    | 1171.4 | 1168.8 | 1163.7 | 1170.1 | 1170.1 |
| 7.5°  | 1161.1 | 1159.8 | 1156.0 | 1162.4 | 1162.4 |
| 10°   | 1149.5 | 1148.3 | 1145.7 | 1153.4 | 1153.4 |
| 12.5° | 1134.1 | 1134.1 | 1132.8 | 1140.6 | 1141.8 |
| 15°   | 1116.1 | 1116.1 | 1116.1 | 1126.4 | 1127.7 |
| 17.5° | 1095.6 | 1094.3 | 1098.2 | 1109.7 | 1111.0 |
| 20°   | 1069.9 | 1071.2 | 1076.3 | 1089.2 | 1091.7 |
| 22.5° | 1044.2 | 1045.5 | 1051.9 | 1067.3 | 1071.2 |
| 25°   | 1014.7 | 1016.0 | 1026.2 | 1041.7 | 1045.5 |
| 27.5° | 982.6  | 985.1  | 996.7  | 1013.4 | 1016.0 |
| 30°   | 947.9  | 950.5  | 964.6  | 981.3  | 985.1  |
| 32.5° | 911.9  | 915.8  | 928.6  | 946.6  | 951.7  |
| 35°   | 874.7  | 876.0  | 891.4  | 909.4  | 911.9  |
| 37.5° | 833.6  | 837.4  | 852.8  | 868.3  | 870.8  |
| 40°   | 795.0  | 797.6  | 811.7  | 824.6  | 825.9  |
| 42.5° | 751.4  | 755.2  | 770.6  | 779.6  | 779.6  |
| 45°   | 710.3  | 712.8  | 725.7  | 730.8  | 732.1  |
| 47.5° | 664.0  | 666.6  | 678.2  | 680.7  | 680.7  |
| 50°   | 617.8  | 624.2  | 630.6  | 630.6  | 628.1  |
| 52.5° | 575.4  | 576.7  | 584.4  | 579.3  | 576.7  |
| 55°   | 530.5  | 530.5  | 534.3  | 526.6  | 520.2  |
| 57.5° | 485.5  | 485.5  | 485.5  | 475.2  | 470.1  |
| 60°   | 439.3  | 438.0  | 432.8  | 420.0  | 416.1  |
| 62.5° | 395.6  | 391.7  | 384.0  | 371.2  | 363.5  |
| 65°   | 350.6  | 345.5  | 336.5  | 318.5  | 313.4  |
| 67.5° | 308.3  | 299.3  | 289.0  | 272.3  | 263.3  |
| 70°   | 263.3  | 255.6  | 241.5  | 222.2  | 214.5  |
| 72.5° | 219.6  | 211.9  | 200.4  | 181.1  | 169.5  |
| 75°   | 177.2  | 170.8  | 156.7  | 137.4  | 133.6  |
| 77.5° | 136.1  | 132.3  | 118.2  | 109.2  | 107.9  |
| 80°   | 98.9   | 97.6   | 86.1   | 83.5   | 83.5   |
| 82.5° | 65.5   | 64.2   | 60.4   | 60.4   | 59.1   |
| 85°   | 36.0   | 37.2   | 38.5   | 38.5   | 38.5   |
| 87.5° | 12.8   | 15.4   | 18.0   | 18.0   | 18.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)