

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: P297638

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297638  
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-35L93050-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: 3162.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 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

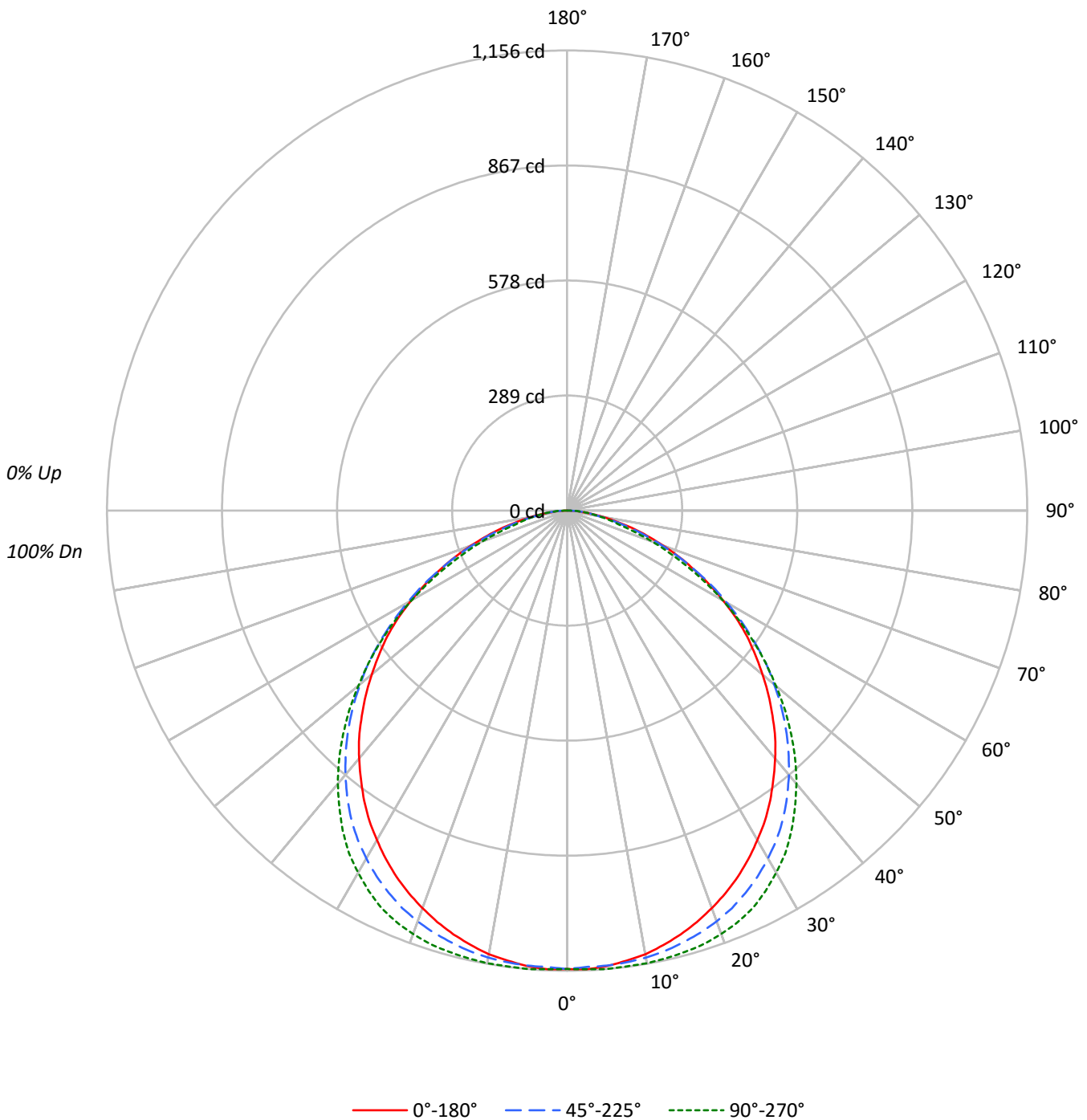
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 3099 | 3099 | 3099 |
| 5°  | 3103 | 3100 | 3123 |
| 10° | 3093 | 3116 | 3155 |
| 15° | 3071 | 3130 | 3197 |
| 20° | 3044 | 3145 | 3242 |
| 25° | 3013 | 3147 | 3273 |
| 30° | 2969 | 3136 | 3263 |
| 35° | 2921 | 3107 | 3227 |
| 40° | 2856 | 3044 | 3149 |
| 45° | 2777 | 2960 | 3030 |
| 50° | 2683 | 2842 | 2866 |
| 55° | 2589 | 2689 | 2675 |
| 60° | 2439 | 2492 | 2431 |
| 65° | 2247 | 2256 | 2130 |
| 70° | 2010 | 1965 | 1788 |
| 75° | 1747 | 1629 | 1380 |
| 80° | 1399 | 1269 | 1269 |
| 85° | 1003 | 1176 | 1220 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.6  | 3.5       |
| 10°-20°   | 317.9  | 10.1      |
| 20°-30°   | 488.2  | 15.4      |
| 30°-40°   | 587.9  | 18.6      |
| 40°-50°   | 594.1  | 18.8      |
| 50°-60°   | 506.8  | 16.0      |
| 60°-70°   | 346.9  | 11.0      |
| 70°-80°   | 167.4  | 5.3       |
| 80°-90°   | 43.2   | 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°    | 915.7  | 29.0      |
| 0°-40°    | 1503.6 | 47.6      |
| 0°-60°    | 2604.5 | 82.4      |
| 0°-90°    | 3162.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3162.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1152 | 1152  | 1152 | 1152  | 1152 |      |
| 5°  | 1149 | 1149  | 1148 | 1155  | 1156 | 109  |
| 15° | 1102 | 1111  | 1124 | 1143  | 1148 | 311  |
| 25° | 1015 | 1030  | 1060 | 1091  | 1102 | 467  |
| 35° | 889  | 909   | 946  | 975   | 982  | 556  |
| 45° | 730  | 750   | 778  | 796   | 796  | 563  |
| 55° | 552  | 562   | 573  | 576   | 570  | 491  |
| 65° | 353  | 357   | 354  | 342   | 334  | 350  |
| 75° | 168  | 168   | 157  | 138   | 133  | 178  |
| 85° | 32   | 35    | 38   | 40    | 40   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1151.7 | 1151.7 | 1151.7 | 1151.7 | 1151.7 |
| 2.5°  | 1153.2 | 1151.7 | 1147.5 | 1153.2 | 1153.2 |
| 5°    | 1148.9 | 1148.9 | 1147.5 | 1154.6 | 1156.0 |
| 7.5°  | 1140.5 | 1143.3 | 1144.7 | 1153.2 | 1154.6 |
| 10°   | 1132.0 | 1134.8 | 1140.5 | 1151.7 | 1154.6 |
| 12.5° | 1117.9 | 1123.5 | 1133.4 | 1148.9 | 1151.7 |
| 15°   | 1102.3 | 1110.8 | 1123.5 | 1143.3 | 1147.5 |
| 17.5° | 1084.0 | 1095.3 | 1112.2 | 1134.8 | 1141.9 |
| 20°   | 1062.8 | 1075.5 | 1098.1 | 1123.5 | 1132.0 |
| 22.5° | 1040.2 | 1054.4 | 1081.2 | 1110.8 | 1119.3 |
| 25°   | 1014.8 | 1030.4 | 1060.0 | 1091.1 | 1102.3 |
| 27.5° | 986.6  | 1003.5 | 1036.0 | 1068.5 | 1078.4 |
| 30°   | 955.6  | 973.9  | 1009.2 | 1041.7 | 1050.1 |
| 32.5° | 924.5  | 942.9  | 979.5  | 1010.6 | 1020.5 |
| 35°   | 889.2  | 909.0  | 945.7  | 975.3  | 982.4  |
| 37.5° | 851.1  | 870.9  | 907.6  | 937.2  | 940.0  |
| 40°   | 813.0  | 832.8  | 866.6  | 893.5  | 896.3  |
| 42.5° | 773.5  | 791.8  | 822.9  | 845.5  | 848.3  |
| 45°   | 729.7  | 749.5  | 777.7  | 796.1  | 796.1  |
| 47.5° | 686.0  | 705.7  | 729.7  | 742.4  | 742.4  |
| 50°   | 640.8  | 659.1  | 678.9  | 686.0  | 684.6  |
| 52.5° | 595.6  | 612.6  | 629.5  | 630.9  | 628.1  |
| 55°   | 551.9  | 561.8  | 573.1  | 575.9  | 570.2  |
| 57.5° | 503.9  | 512.4  | 519.4  | 515.2  | 510.9  |
| 60°   | 453.1  | 461.5  | 463.0  | 455.9  | 451.7  |
| 62.5° | 403.7  | 410.7  | 410.7  | 399.4  | 392.4  |
| 65°   | 352.9  | 357.1  | 354.3  | 341.6  | 334.5  |
| 67.5° | 304.9  | 307.7  | 302.1  | 289.3  | 278.1  |
| 70°   | 255.5  | 256.9  | 249.8  | 234.3  | 227.2  |
| 72.5° | 210.3  | 211.7  | 203.2  | 184.9  | 176.4  |
| 75°   | 168.0  | 168.0  | 156.7  | 138.3  | 132.7  |
| 77.5° | 125.6  | 129.9  | 117.2  | 107.3  | 107.3  |
| 80°   | 90.3   | 94.6   | 81.9   | 83.3   | 81.9   |
| 82.5° | 59.3   | 63.5   | 59.3   | 59.3   | 59.3   |
| 85°   | 32.5   | 35.3   | 38.1   | 39.5   | 39.5   |
| 87.5° | 9.9    | 16.9   | 18.3   | 19.8   | 22.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)