

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: P297778

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-35L93050-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3156.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

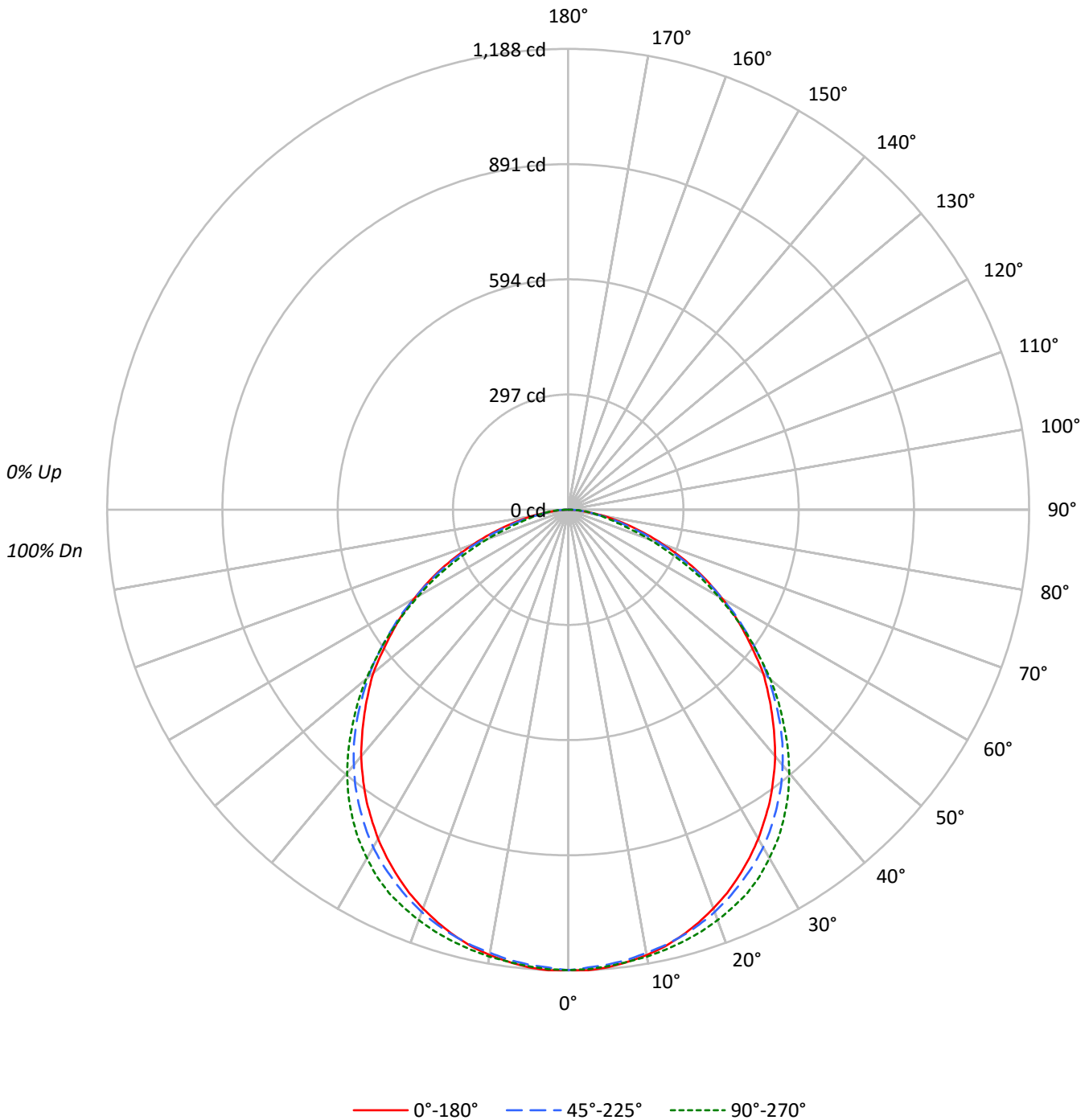
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297778

CATALOG NUMBER: D3X-WG-35L93050-LD5-UNV-14-T1-W2A-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P297778

CATALOG NUMBER: D3X-WG-35L93050-LD5-UNV-14-T1-W2A-5000K

**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  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 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  | 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  | 48  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 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   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 31  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 35  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3194 | 3194 | 3194 |
| 5°  | 3199 | 3179 | 3191 |
| 10° | 3185 | 3170 | 3197 |
| 15° | 3165 | 3169 | 3208 |
| 20° | 3132 | 3160 | 3225 |
| 25° | 3092 | 3143 | 3239 |
| 30° | 3044 | 3123 | 3223 |
| 35° | 2986 | 3078 | 3185 |
| 40° | 2915 | 3019 | 3113 |
| 45° | 2825 | 2933 | 2992 |
| 50° | 2748 | 2818 | 2848 |
| 55° | 2609 | 2662 | 2648 |
| 60° | 2469 | 2469 | 2400 |
| 65° | 2292 | 2238 | 2112 |
| 70° | 2032 | 1943 | 1755 |
| 75° | 1761 | 1599 | 1350 |
| 80° | 1443 | 1246 | 1224 |
| 85° | 957  | 1133 | 1220 |



TEST NUMBER: P297778

CATALOG NUMBER: D3X-WG-35L93050-LD5-UNV-14-T1-W2A-5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.2  | 3.6       |
| 10°-20°   | 322.1  | 10.2      |
| 20°-30°   | 489.6  | 15.5      |
| 30°-40°   | 586.2  | 18.6      |
| 40°-50°   | 591.3  | 18.7      |
| 50°-60°   | 503.6  | 16.0      |
| 60°-70°   | 344.4  | 10.9      |
| 70°-80°   | 164.9  | 5.2       |
| 80°-90°   | 41.8   | 1.3       |
| 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°    | 923.9  | 29.3      |
| 0°-40°    | 1510.1 | 47.8      |
| 0°-60°    | 2605.0 | 82.5      |
| 0°-90°    | 3156.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3156.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1187 | 1187  | 1187 | 1187  | 1187 |      |
| 5°  | 1184 | 1183  | 1177 | 1183  | 1181 | 112  |
| 15° | 1136 | 1133  | 1138 | 1150  | 1152 | 320  |
| 25° | 1042 | 1043  | 1058 | 1082  | 1091 | 480  |
| 35° | 909  | 912   | 937  | 964   | 970  | 568  |
| 45° | 742  | 748   | 771  | 786   | 786  | 573  |
| 55° | 556  | 559   | 567  | 569   | 564  | 498  |
| 65° | 360  | 353   | 351  | 339   | 332  | 355  |
| 75° | 169  | 166   | 154  | 134   | 130  | 181  |
| 85° | 31   | 34    | 37   | 38    | 40   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P297778

CATALOG NUMBER: D3X-WG-35L93050-LD5-UNV-14-T1-W2A-5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1186.9 | 1186.9 | 1186.9 | 1186.9 | 1186.9 |
| 2.5°  | 1188.3 | 1186.9 | 1181.3 | 1186.9 | 1185.5 |
| 5°    | 1184.1 | 1182.7 | 1177.0 | 1182.7 | 1181.3 |
| 7.5°  | 1175.6 | 1174.2 | 1170.0 | 1175.6 | 1175.6 |
| 10°   | 1165.7 | 1162.9 | 1160.1 | 1168.6 | 1170.0 |
| 12.5° | 1153.0 | 1150.2 | 1150.2 | 1160.1 | 1161.5 |
| 15°   | 1136.1 | 1133.3 | 1137.5 | 1150.2 | 1151.6 |
| 17.5° | 1116.3 | 1114.9 | 1122.0 | 1137.5 | 1140.3 |
| 20°   | 1093.8 | 1092.4 | 1103.6 | 1122.0 | 1126.2 |
| 22.5° | 1069.8 | 1069.8 | 1082.5 | 1103.6 | 1109.3 |
| 25°   | 1041.5 | 1043.0 | 1058.5 | 1082.5 | 1090.9 |
| 27.5° | 1011.9 | 1014.7 | 1033.1 | 1059.9 | 1067.0 |
| 30°   | 979.5  | 983.7  | 1004.9 | 1030.3 | 1037.3 |
| 32.5° | 944.2  | 948.4  | 972.4  | 999.2  | 1006.3 |
| 35°   | 908.9  | 911.7  | 937.1  | 963.9  | 969.6  |
| 37.5° | 869.4  | 873.6  | 900.4  | 924.4  | 930.1  |
| 40°   | 829.9  | 834.1  | 859.5  | 882.1  | 886.3  |
| 42.5° | 786.1  | 791.7  | 817.1  | 835.5  | 838.3  |
| 45°   | 742.3  | 748.0  | 770.6  | 786.1  | 786.1  |
| 47.5° | 698.6  | 701.4  | 721.2  | 736.7  | 735.3  |
| 50°   | 656.3  | 654.8  | 673.2  | 680.3  | 680.3  |
| 52.5° | 604.0  | 608.3  | 621.0  | 625.2  | 621.0  |
| 55°   | 556.1  | 558.9  | 567.3  | 568.8  | 564.5  |
| 57.5° | 509.5  | 508.1  | 515.1  | 510.9  | 505.2  |
| 60°   | 458.7  | 458.7  | 458.7  | 454.4  | 446.0  |
| 62.5° | 409.3  | 406.5  | 405.0  | 395.2  | 390.9  |
| 65°   | 359.9  | 352.8  | 351.4  | 338.7  | 331.7  |
| 67.5° | 307.7  | 304.8  | 297.8  | 285.1  | 272.4  |
| 70°   | 258.3  | 255.4  | 247.0  | 231.5  | 223.0  |
| 72.5° | 213.1  | 210.3  | 199.0  | 180.6  | 169.4  |
| 75°   | 169.4  | 166.5  | 153.8  | 134.1  | 129.8  |
| 77.5° | 128.4  | 127.0  | 114.3  | 104.4  | 103.0  |
| 80°   | 93.1   | 91.7   | 80.4   | 80.4   | 79.0   |
| 82.5° | 59.3   | 59.3   | 56.5   | 57.9   | 59.3   |
| 85°   | 31.0   | 33.9   | 36.7   | 38.1   | 39.5   |
| 87.5° | 9.9    | 15.5   | 18.3   | 19.8   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)