

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: P297303

Luminaire Tested: **D3X-WO-60L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-60L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6385.0 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

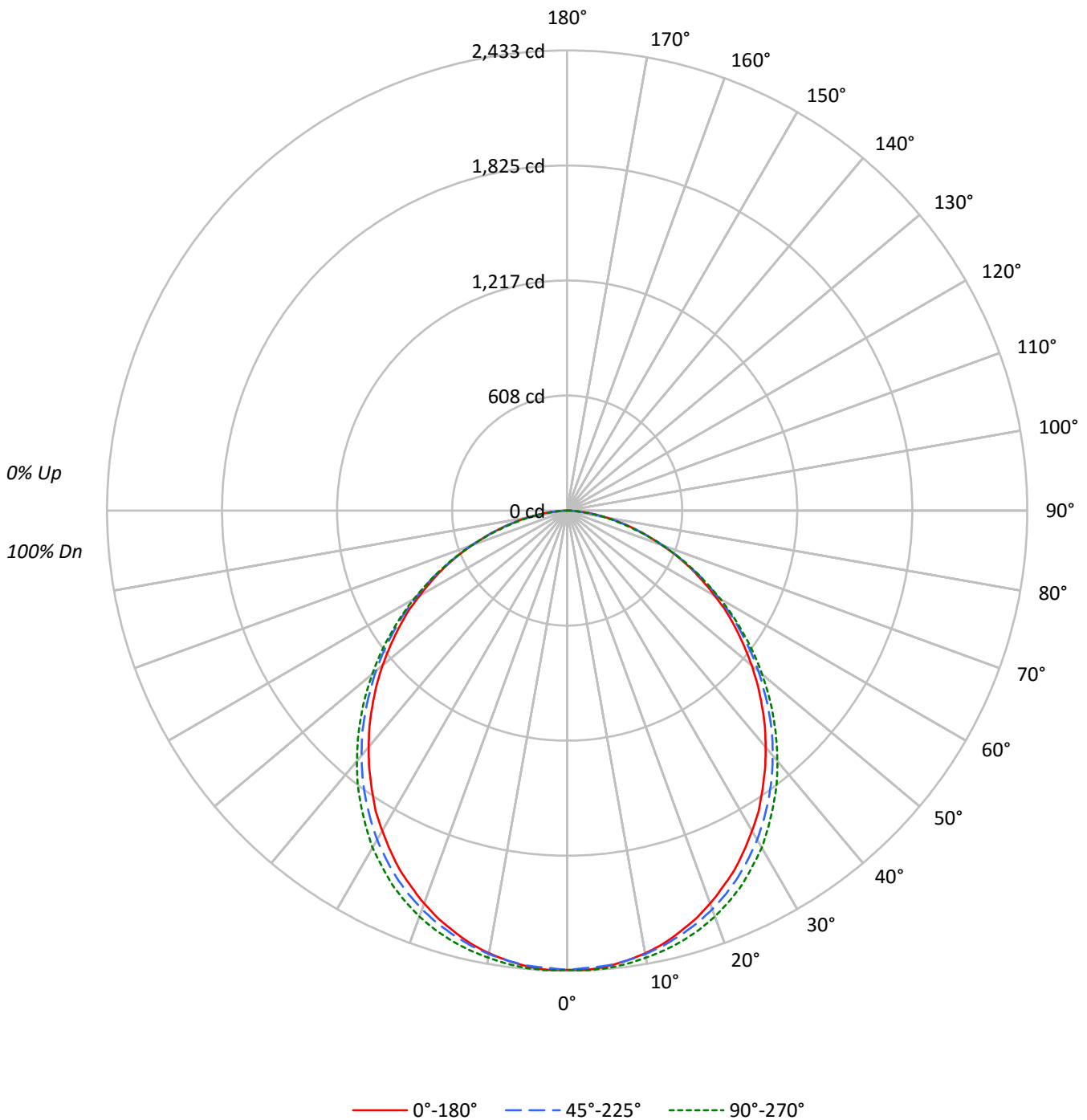
Input Watts (W): 45.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |
| 5   | 77  | 64  | 55  | 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  | 41  | 39  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 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  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3267 | 3267 | 3267 |
| 5°  | 3268 | 3262 | 3280 |
| 10° | 3247 | 3253 | 3280 |
| 15° | 3212 | 3236 | 3281 |
| 20° | 3166 | 3212 | 3271 |
| 25° | 3110 | 3174 | 3244 |
| 30° | 3038 | 3121 | 3198 |
| 35° | 2957 | 3052 | 3123 |
| 40° | 2867 | 2969 | 3037 |
| 45° | 2771 | 2873 | 2935 |
| 50° | 2665 | 2764 | 2814 |
| 55° | 2553 | 2634 | 2674 |
| 60° | 2425 | 2489 | 2518 |
| 65° | 2287 | 2321 | 2335 |
| 70° | 2098 | 2124 | 2098 |
| 75° | 1890 | 1878 | 1823 |
| 80° | 1600 | 1583 | 1533 |
| 85° | 1195 | 1162 | 1030 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 229.9  | 3.6       |
| 10°-20°   | 656.8  | 10.3      |
| 20°-30°   | 984.7  | 15.4      |
| 30°-40°   | 1159.7 | 18.2      |
| 40°-50°   | 1159.9 | 18.2      |
| 50°-60°   | 1000.8 | 15.7      |
| 60°-70°   | 720.1  | 11.3      |
| 70°-80°   | 382.0  | 6.0       |
| 80°-90°   | 91.1   | 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°    | 1871.4 | 29.3      |
| 0°-40°    | 3031.1 | 47.5      |
| 0°-60°    | 5191.8 | 81.3      |
| 0°-90°    | 6385.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6385.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2428 | 2428  | 2428 | 2428  | 2428 |      |
| 5°  | 2420 | 2418  | 2415 | 2424  | 2428 | 230  |
| 15° | 2306 | 2312  | 2323 | 2347  | 2355 | 650  |
| 25° | 2095 | 2108  | 2138 | 2174  | 2185 | 964  |
| 35° | 1800 | 1822  | 1858 | 1891  | 1901 | 1126 |
| 45° | 1456 | 1476  | 1510 | 1536  | 1542 | 1123 |
| 55° | 1088 | 1099  | 1123 | 1142  | 1140 | 974  |
| 65° | 718  | 720   | 729  | 733   | 733  | 711  |
| 75° | 364  | 359   | 361  | 353   | 351  | 387  |
| 85° | 77   | 77    | 75   | 69    | 67   | 94   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2428.3 | 2428.3 | 2428.3 | 2428.3 | 2428.3 |
| 2.5°  | 2430.5 | 2426.2 | 2419.7 | 2428.3 | 2432.6 |
| 5°    | 2419.7 | 2417.6 | 2415.4 | 2424.0 | 2428.3 |
| 7.5°  | 2400.4 | 2402.5 | 2400.4 | 2413.3 | 2417.6 |
| 10°   | 2376.7 | 2378.9 | 2381.0 | 2396.1 | 2400.4 |
| 12.5° | 2346.6 | 2348.8 | 2355.2 | 2374.6 | 2381.0 |
| 15°   | 2305.7 | 2312.2 | 2322.9 | 2346.6 | 2355.2 |
| 17.5° | 2262.7 | 2271.3 | 2286.4 | 2314.3 | 2322.9 |
| 20°   | 2211.1 | 2221.8 | 2243.4 | 2273.5 | 2284.2 |
| 22.5° | 2153.0 | 2163.8 | 2193.9 | 2226.2 | 2236.9 |
| 25°   | 2094.9 | 2107.9 | 2138.0 | 2174.5 | 2185.3 |
| 27.5° | 2026.1 | 2043.3 | 2075.6 | 2112.2 | 2120.8 |
| 30°   | 1955.1 | 1970.2 | 2008.9 | 2043.3 | 2058.4 |
| 32.5° | 1884.2 | 1899.2 | 1935.8 | 1970.2 | 1981.0 |
| 35°   | 1800.3 | 1821.8 | 1858.4 | 1890.6 | 1901.4 |
| 37.5° | 1718.5 | 1737.9 | 1776.6 | 1808.9 | 1819.6 |
| 40°   | 1632.5 | 1649.7 | 1690.6 | 1720.7 | 1729.3 |
| 42.5° | 1546.5 | 1563.7 | 1604.5 | 1628.2 | 1636.8 |
| 45°   | 1456.1 | 1475.5 | 1509.9 | 1535.7 | 1542.2 |
| 47.5° | 1365.8 | 1380.9 | 1413.1 | 1436.8 | 1445.4 |
| 50°   | 1273.3 | 1288.4 | 1320.6 | 1340.0 | 1344.3 |
| 52.5° | 1180.8 | 1191.6 | 1221.7 | 1238.9 | 1245.4 |
| 55°   | 1088.3 | 1099.1 | 1122.8 | 1142.1 | 1140.0 |
| 57.5° | 1000.2 | 1004.5 | 1028.1 | 1041.0 | 1041.0 |
| 60°   | 901.2  | 905.5  | 924.9  | 933.5  | 935.6  |
| 62.5° | 808.7  | 815.2  | 830.2  | 832.4  | 832.4  |
| 65°   | 718.4  | 720.5  | 729.1  | 733.4  | 733.4  |
| 67.5° | 628.1  | 625.9  | 634.5  | 634.5  | 632.4  |
| 70°   | 533.4  | 537.7  | 539.9  | 535.6  | 533.4  |
| 72.5° | 447.4  | 445.2  | 445.2  | 443.1  | 443.1  |
| 75°   | 363.5  | 359.2  | 361.3  | 352.7  | 350.6  |
| 77.5° | 286.1  | 279.6  | 277.5  | 273.2  | 268.9  |
| 80°   | 206.5  | 206.5  | 204.3  | 200.0  | 197.9  |
| 82.5° | 137.7  | 137.7  | 135.5  | 131.2  | 126.9  |
| 85°   | 77.4   | 77.4   | 75.3   | 68.8   | 66.7   |
| 87.5° | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)