

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: P297378

Luminaire Tested: **D3X-WO-60L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297378
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-60L82765-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: 6203.0 lumens
Efficiency: N/A
Efficacy: 140.0 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

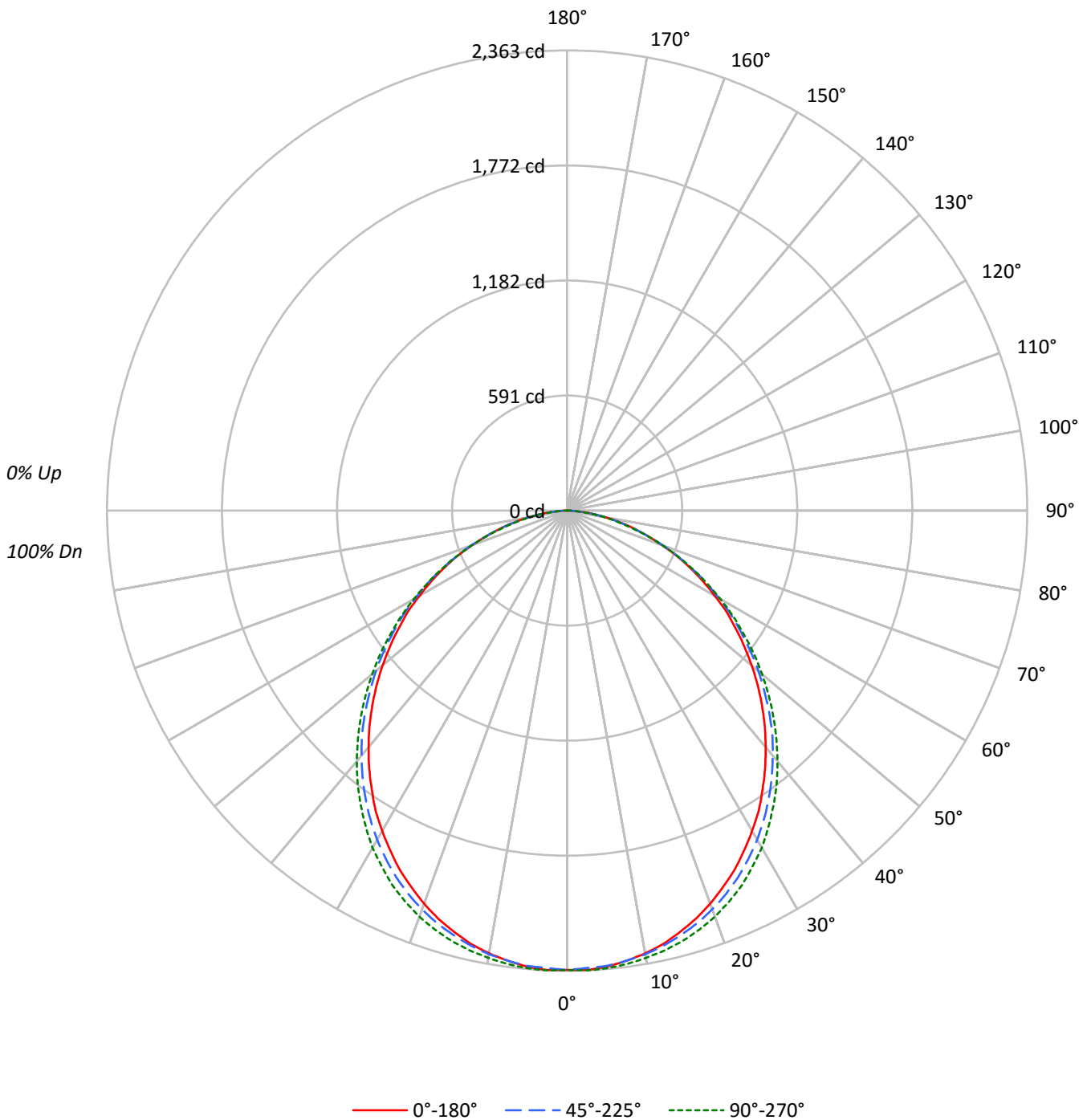
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P297378

CATALOG NUMBER: D3X-WO-60L82765-LD5-UNV-24-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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 100 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | 60 | | | |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | 39 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3174 | 3174 | 3174 |
| 5° | 3175 | 3169 | 3186 |
| 10° | 3155 | 3160 | 3186 |
| 15° | 3120 | 3143 | 3187 |
| 20° | 3076 | 3121 | 3177 |
| 25° | 3021 | 3083 | 3152 |
| 30° | 2951 | 3032 | 3107 |
| 35° | 2873 | 2965 | 3034 |
| 40° | 2786 | 2885 | 2951 |
| 45° | 2692 | 2791 | 2851 |
| 50° | 2589 | 2686 | 2734 |
| 55° | 2480 | 2559 | 2598 |
| 60° | 2356 | 2418 | 2446 |
| 65° | 2222 | 2255 | 2268 |
| 70° | 2039 | 2063 | 2039 |
| 75° | 1836 | 1825 | 1771 |
| 80° | 1554 | 1538 | 1489 |
| 85° | 1161 | 1129 | 1000 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.4 | 3.6 |
| 10°-20° | 638.1 | 10.3 |
| 20°-30° | 956.7 | 15.4 |
| 30°-40° | 1126.6 | 18.2 |
| 40°-50° | 1126.8 | 18.2 |
| 50°-60° | 972.3 | 15.7 |
| 60°-70° | 699.6 | 11.3 |
| 70°-80° | 371.1 | 6.0 |
| 80°-90° | 88.5 | 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° | 1818.1 | 29.3 |
| 0°-40° | 2944.7 | 47.5 |
| 0°-60° | 5043.8 | 81.3 |
| 0°-90° | 6203.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6203.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2359 | 2359 | 2359 | 2359 | 2359 | |
| 5° | 2351 | 2349 | 2347 | 2355 | 2359 | 223 |
| 15° | 2240 | 2246 | 2257 | 2280 | 2288 | 632 |
| 25° | 2035 | 2048 | 2077 | 2112 | 2123 | 936 |
| 35° | 1749 | 1770 | 1805 | 1837 | 1847 | 1094 |
| 45° | 1415 | 1433 | 1467 | 1492 | 1498 | 1091 |
| 55° | 1057 | 1068 | 1091 | 1110 | 1108 | 946 |
| 65° | 698 | 700 | 708 | 712 | 712 | 690 |
| 75° | 353 | 349 | 351 | 343 | 341 | 376 |
| 85° | 75 | 75 | 73 | 67 | 65 | 91 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297378

CATALOG NUMBER: D3X-WO-60L82765-LD5-UNV-24-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2359.1 | 2359.1 | 2359.1 | 2359.1 | 2359.1 |
| 2.5° | 2361.2 | 2357.0 | 2350.8 | 2359.1 | 2363.3 |
| 5° | 2350.8 | 2348.7 | 2346.6 | 2354.9 | 2359.1 |
| 7.5° | 2332.0 | 2334.0 | 2332.0 | 2344.5 | 2348.7 |
| 10° | 2309.0 | 2311.1 | 2313.1 | 2327.8 | 2332.0 |
| 12.5° | 2279.7 | 2281.8 | 2288.1 | 2306.9 | 2313.1 |
| 15° | 2240.0 | 2246.3 | 2256.7 | 2279.7 | 2288.1 |
| 17.5° | 2198.2 | 2206.6 | 2221.2 | 2248.4 | 2256.7 |
| 20° | 2148.1 | 2158.5 | 2179.4 | 2208.7 | 2219.1 |
| 22.5° | 2091.7 | 2102.1 | 2131.4 | 2162.7 | 2173.1 |
| 25° | 2035.2 | 2047.8 | 2077.0 | 2112.5 | 2123.0 |
| 27.5° | 1968.4 | 1985.1 | 2016.4 | 2051.9 | 2060.3 |
| 30° | 1899.4 | 1914.0 | 1951.7 | 1985.1 | 1999.7 |
| 32.5° | 1830.5 | 1845.1 | 1880.6 | 1914.0 | 1924.5 |
| 35° | 1749.0 | 1769.9 | 1805.4 | 1836.7 | 1847.2 |
| 37.5° | 1669.6 | 1688.4 | 1726.0 | 1757.3 | 1767.8 |
| 40° | 1586.0 | 1602.7 | 1642.4 | 1671.6 | 1680.0 |
| 42.5° | 1502.4 | 1519.1 | 1558.8 | 1581.8 | 1590.2 |
| 45° | 1414.6 | 1433.4 | 1466.9 | 1491.9 | 1498.2 |
| 47.5° | 1326.9 | 1341.5 | 1372.8 | 1395.8 | 1404.2 |
| 50° | 1237.0 | 1251.6 | 1283.0 | 1301.8 | 1306.0 |
| 52.5° | 1147.2 | 1157.6 | 1186.9 | 1203.6 | 1209.9 |
| 55° | 1057.3 | 1067.8 | 1090.8 | 1109.6 | 1107.5 |
| 57.5° | 971.6 | 975.8 | 998.8 | 1011.3 | 1011.3 |
| 60° | 875.5 | 879.7 | 898.5 | 906.9 | 909.0 |
| 62.5° | 785.7 | 791.9 | 806.6 | 808.7 | 808.7 |
| 65° | 697.9 | 700.0 | 708.4 | 712.5 | 712.5 |
| 67.5° | 610.2 | 608.1 | 616.4 | 616.4 | 614.3 |
| 70° | 518.2 | 522.4 | 524.5 | 520.3 | 518.2 |
| 72.5° | 434.6 | 432.5 | 432.5 | 430.4 | 430.4 |
| 75° | 353.1 | 349.0 | 351.0 | 342.7 | 340.6 |
| 77.5° | 277.9 | 271.6 | 269.6 | 265.4 | 261.2 |
| 80° | 200.6 | 200.6 | 198.5 | 194.3 | 192.2 |
| 82.5° | 133.7 | 133.7 | 131.6 | 127.5 | 123.3 |
| 85° | 75.2 | 75.2 | 73.1 | 66.9 | 64.8 |
| 87.5° | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)