

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: P297099

Luminaire Tested: **D3X-WG-60L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-60L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

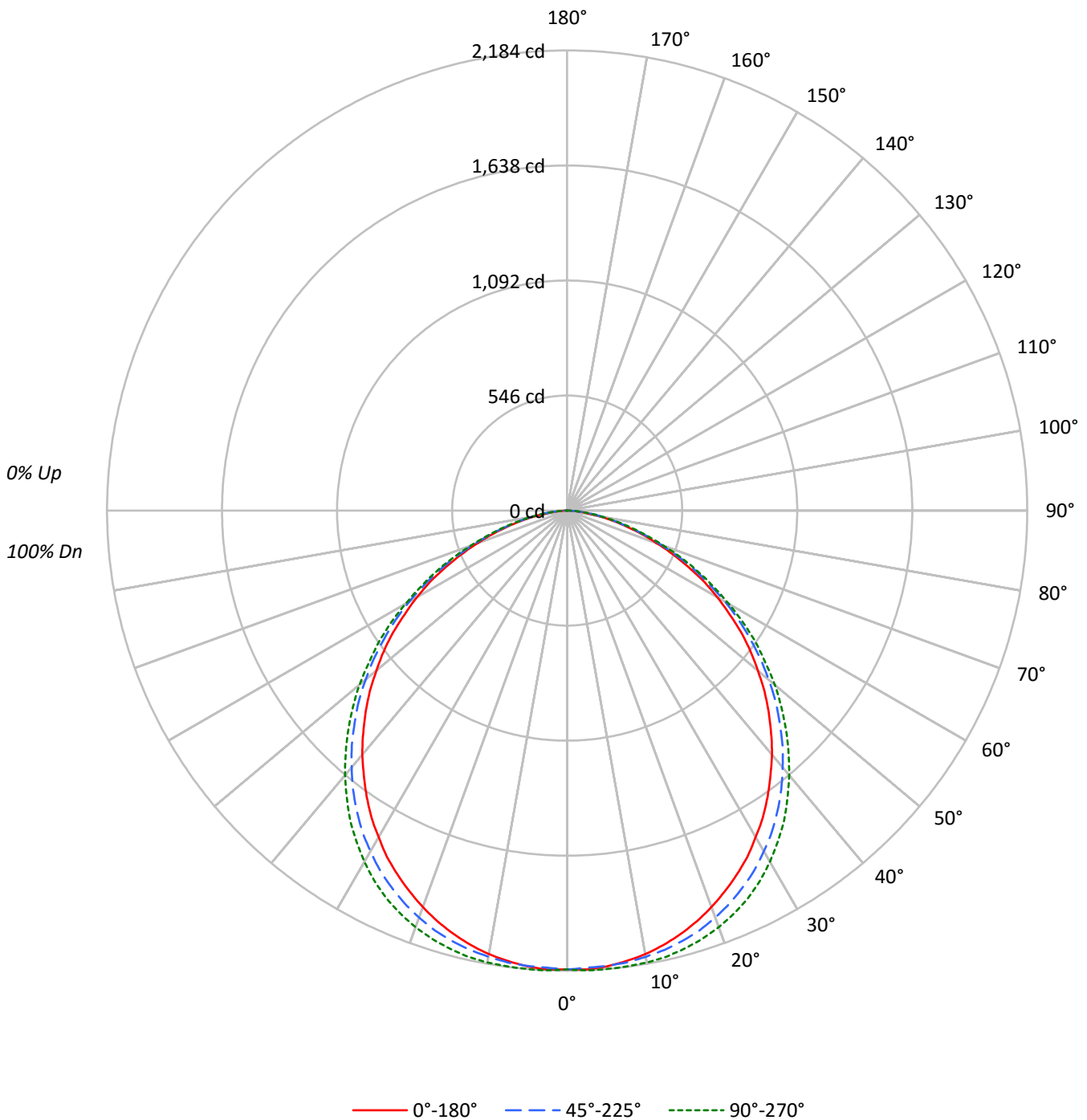
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 95 | 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 | 47 | 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 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2930 | 2930 | 2930 |
| 5° | 2933 | 2930 | 2950 |
| 10° | 2921 | 2938 | 2975 |
| 15° | 2898 | 2945 | 2998 |
| 20° | 2867 | 2943 | 3012 |
| 25° | 2829 | 2929 | 3014 |
| 30° | 2780 | 2902 | 2990 |
| 35° | 2724 | 2860 | 2950 |
| 40° | 2657 | 2795 | 2880 |
| 45° | 2574 | 2714 | 2795 |
| 50° | 2474 | 2615 | 2695 |
| 55° | 2366 | 2485 | 2564 |
| 60° | 2215 | 2328 | 2385 |
| 65° | 2022 | 2130 | 2183 |
| 70° | 1777 | 1868 | 1918 |
| 75° | 1503 | 1580 | 1634 |
| 80° | 1193 | 1308 | 1340 |
| 85° | 815 | 977 | 945 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 206.9 | 3.5 |
| 10°-20° | 597.4 | 10.1 |
| 20°-30° | 907.9 | 15.4 |
| 30°-40° | 1083.3 | 18.4 |
| 40°-50° | 1094.1 | 18.6 |
| 50°-60° | 942.7 | 16.0 |
| 60°-70° | 657.1 | 11.2 |
| 70°-80° | 325.6 | 5.5 |
| 80°-90° | 75.9 | 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° | 1712.2 | 29.1 |
| 0°-40° | 2795.5 | 47.5 |
| 0°-60° | 4832.3 | 82.0 |
| 0°-90° | 5891.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5891.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2178 | 2178 | 2178 | 2178 | 2178 | |
| 5° | 2171 | 2169 | 2169 | 2180 | 2184 | 206 |
| 15° | 2081 | 2091 | 2114 | 2142 | 2152 | 587 |
| 25° | 1906 | 1931 | 1973 | 2013 | 2030 | 878 |
| 35° | 1659 | 1686 | 1741 | 1781 | 1796 | 1037 |
| 45° | 1353 | 1382 | 1426 | 1460 | 1469 | 1043 |
| 55° | 1009 | 1030 | 1059 | 1085 | 1093 | 899 |
| 65° | 635 | 648 | 669 | 675 | 686 | 631 |
| 75° | 289 | 293 | 304 | 310 | 314 | 312 |
| 85° | 53 | 63 | 63 | 59 | 61 | 67 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 |
| 2.5° | 2179.9 | 2175.7 | 2171.4 | 2179.9 | 2184.1 |
| 5° | 2171.4 | 2169.3 | 2169.3 | 2179.9 | 2184.1 |
| 7.5° | 2156.7 | 2156.7 | 2163.0 | 2177.8 | 2182.0 |
| 10° | 2137.7 | 2141.9 | 2150.3 | 2171.4 | 2177.8 |
| 12.5° | 2112.4 | 2120.8 | 2135.6 | 2160.9 | 2169.3 |
| 15° | 2080.7 | 2091.3 | 2114.5 | 2141.9 | 2152.5 |
| 17.5° | 2044.8 | 2059.6 | 2089.1 | 2120.8 | 2131.4 |
| 20° | 2002.6 | 2021.6 | 2055.4 | 2091.3 | 2103.9 |
| 22.5° | 1956.2 | 1979.4 | 2017.4 | 2055.4 | 2070.2 |
| 25° | 1905.6 | 1930.9 | 1973.1 | 2013.2 | 2030.1 |
| 27.5° | 1852.8 | 1878.1 | 1924.5 | 1964.6 | 1981.5 |
| 30° | 1789.5 | 1819.0 | 1867.6 | 1909.8 | 1924.5 |
| 32.5° | 1728.3 | 1757.8 | 1808.5 | 1846.5 | 1861.2 |
| 35° | 1658.7 | 1686.1 | 1741.0 | 1781.1 | 1795.8 |
| 37.5° | 1584.8 | 1616.5 | 1669.2 | 1705.1 | 1717.7 |
| 40° | 1513.0 | 1540.5 | 1591.1 | 1627.0 | 1639.7 |
| 42.5° | 1432.9 | 1462.4 | 1513.0 | 1544.7 | 1555.3 |
| 45° | 1352.7 | 1382.2 | 1426.5 | 1460.3 | 1468.7 |
| 47.5° | 1270.4 | 1297.8 | 1342.1 | 1369.6 | 1378.0 |
| 50° | 1181.7 | 1207.1 | 1249.3 | 1276.7 | 1287.3 |
| 52.5° | 1097.3 | 1120.5 | 1156.4 | 1179.6 | 1186.0 |
| 55° | 1008.7 | 1029.8 | 1059.3 | 1084.7 | 1093.1 |
| 57.5° | 913.7 | 937.0 | 964.4 | 985.5 | 991.8 |
| 60° | 823.0 | 842.0 | 865.2 | 884.2 | 886.3 |
| 62.5° | 734.4 | 742.8 | 763.9 | 780.8 | 782.9 |
| 65° | 635.2 | 647.8 | 668.9 | 675.3 | 685.8 |
| 67.5° | 544.4 | 552.9 | 569.8 | 578.2 | 586.6 |
| 70° | 451.6 | 457.9 | 474.8 | 485.4 | 487.5 |
| 72.5° | 371.4 | 373.5 | 386.2 | 394.6 | 396.7 |
| 75° | 289.1 | 293.3 | 303.9 | 310.2 | 314.4 |
| 77.5° | 219.5 | 223.7 | 232.1 | 236.3 | 236.3 |
| 80° | 154.0 | 160.4 | 168.8 | 170.9 | 173.0 |
| 82.5° | 99.2 | 107.6 | 114.0 | 116.1 | 111.8 |
| 85° | 52.8 | 63.3 | 63.3 | 59.1 | 61.2 |
| 87.5° | 19.0 | 23.2 | 25.3 | 27.4 | 27.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)