

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: P296883

Luminaire Tested: **D3X-WD-60L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-60L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5282.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

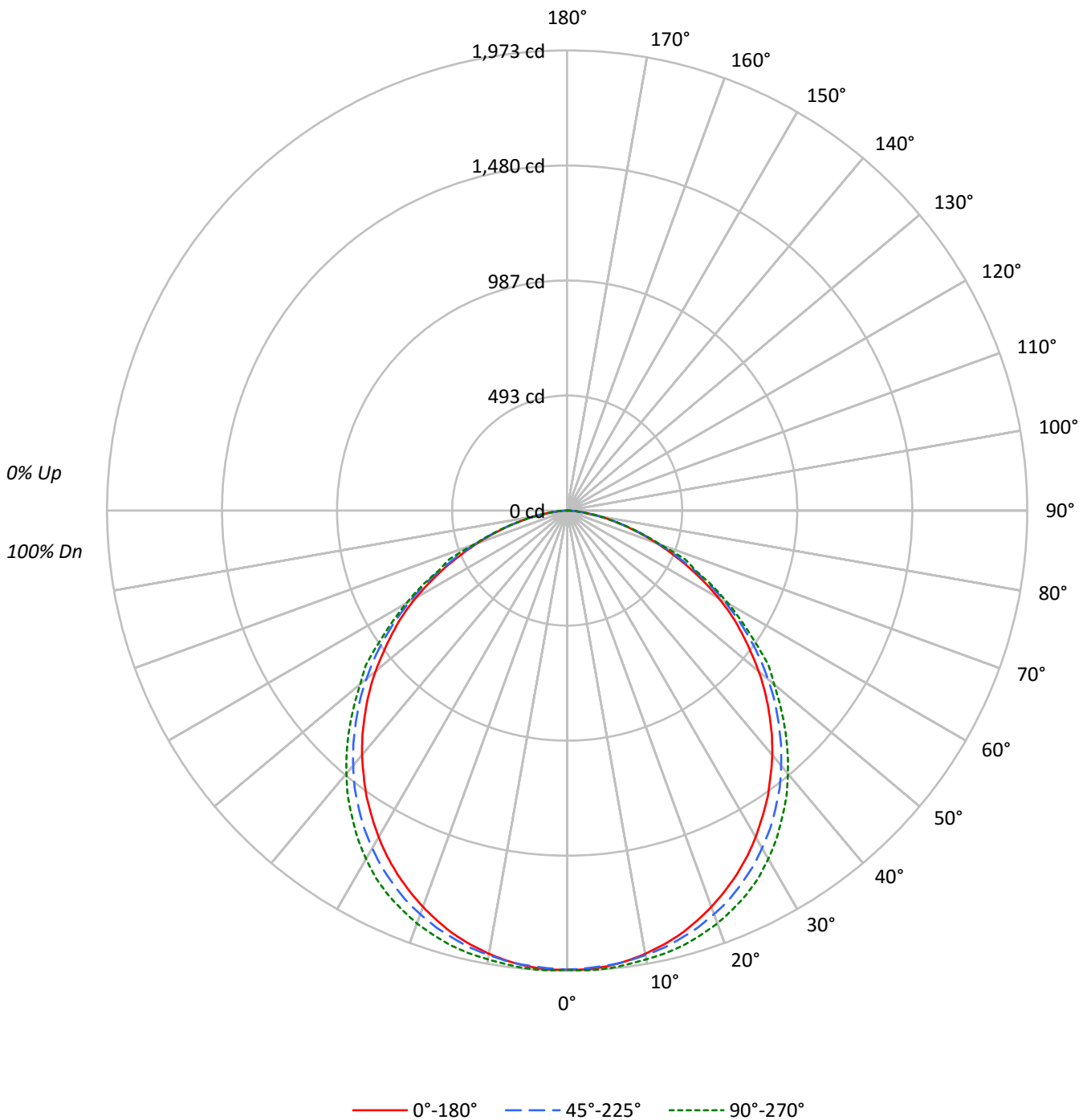
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296883

CATALOG NUMBER: D3X-WD-60L93050-LD5-UNV-24-T1-W2A-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P296883

CATALOG NUMBER: D3X-WD-60L93050-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 | 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 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 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 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2649 | 2649 | 2649 |
| 5° | 2649 | 2644 | 2662 |
| 10° | 2636 | 2644 | 2670 |
| 15° | 2619 | 2643 | 2687 |
| 20° | 2589 | 2638 | 2697 |
| 25° | 2555 | 2622 | 2698 |
| 30° | 2512 | 2597 | 2679 |
| 35° | 2462 | 2559 | 2640 |
| 40° | 2403 | 2507 | 2586 |
| 45° | 2330 | 2438 | 2513 |
| 50° | 2245 | 2352 | 2424 |
| 55° | 2143 | 2241 | 2307 |
| 60° | 2020 | 2096 | 2147 |
| 65° | 1834 | 1895 | 1931 |
| 70° | 1611 | 1648 | 1670 |
| 75° | 1359 | 1379 | 1389 |
| 80° | 1086 | 1101 | 1072 |
| 85° | 732 | 761 | 732 |



TEST NUMBER: P296883

CATALOG NUMBER: D3X-WD-60L93050-LD5-UNV-24-T1-W2A-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.6 | 3.5 |
| 10°-20° | 536.6 | 10.2 |
| 20°-30° | 814.2 | 15.4 |
| 30°-40° | 972.1 | 18.4 |
| 40°-50° | 984.1 | 18.6 |
| 50°-60° | 850.7 | 16.1 |
| 60°-70° | 589.6 | 11.2 |
| 70°-80° | 285.3 | 5.4 |
| 80°-90° | 62.7 | 1.2 |
| 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° | 1537.5 | 29.1 |
| 0°-40° | 2509.6 | 47.5 |
| 0°-60° | 4344.4 | 82.2 |
| 0°-90° | 5282.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5282.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1969 | 1969 | 1969 | 1969 | 1969 | |
| 5° | 1962 | 1960 | 1958 | 1967 | 1971 | 186 |
| 15° | 1880 | 1884 | 1897 | 1920 | 1929 | 530 |
| 25° | 1721 | 1732 | 1766 | 1802 | 1818 | 792 |
| 35° | 1499 | 1512 | 1558 | 1598 | 1607 | 936 |
| 45° | 1224 | 1241 | 1281 | 1313 | 1321 | 944 |
| 55° | 914 | 923 | 955 | 995 | 984 | 816 |
| 65° | 576 | 582 | 595 | 605 | 606 | 570 |
| 75° | 262 | 263 | 265 | 263 | 267 | 281 |
| 85° | 47 | 51 | 49 | 47 | 47 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P296883

CATALOG NUMBER: D3X-WD-60L93050-LD5-UNV-24-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 |
| 2.5° | 1969.1 | 1967.2 | 1963.4 | 1969.1 | 1972.9 |
| 5° | 1961.5 | 1959.6 | 1957.7 | 1967.2 | 1971.0 |
| 7.5° | 1948.2 | 1948.2 | 1950.1 | 1959.6 | 1963.4 |
| 10° | 1929.3 | 1931.2 | 1935.0 | 1950.1 | 1953.9 |
| 12.5° | 1906.6 | 1910.3 | 1919.8 | 1936.9 | 1944.5 |
| 15° | 1880.0 | 1883.8 | 1897.1 | 1919.8 | 1929.3 |
| 17.5° | 1845.9 | 1853.5 | 1872.4 | 1899.0 | 1908.4 |
| 20° | 1808.0 | 1817.5 | 1842.1 | 1872.4 | 1883.8 |
| 22.5° | 1766.3 | 1775.8 | 1808.0 | 1840.2 | 1851.6 |
| 25° | 1720.8 | 1732.2 | 1766.3 | 1802.3 | 1817.5 |
| 27.5° | 1671.5 | 1684.8 | 1722.7 | 1760.6 | 1775.8 |
| 30° | 1616.6 | 1631.7 | 1671.5 | 1711.3 | 1724.6 |
| 32.5° | 1557.8 | 1573.0 | 1618.5 | 1656.4 | 1669.7 |
| 35° | 1499.1 | 1512.4 | 1557.8 | 1597.6 | 1607.1 |
| 37.5° | 1432.8 | 1447.9 | 1497.2 | 1531.3 | 1544.6 |
| 40° | 1368.3 | 1383.5 | 1427.1 | 1461.2 | 1472.6 |
| 42.5° | 1298.2 | 1313.4 | 1356.9 | 1389.2 | 1398.6 |
| 45° | 1224.3 | 1241.3 | 1281.1 | 1313.4 | 1320.9 |
| 47.5° | 1150.4 | 1163.6 | 1205.3 | 1233.8 | 1239.4 |
| 50° | 1072.7 | 1085.9 | 1123.8 | 1152.3 | 1158.0 |
| 52.5° | 991.2 | 1012.0 | 1042.3 | 1063.2 | 1087.8 |
| 55° | 913.5 | 923.0 | 955.2 | 995.0 | 983.6 |
| 57.5° | 835.8 | 841.5 | 868.0 | 885.0 | 888.8 |
| 60° | 750.5 | 758.1 | 778.9 | 788.4 | 797.9 |
| 62.5° | 661.4 | 667.1 | 691.7 | 701.2 | 705.0 |
| 65° | 576.1 | 581.8 | 595.1 | 604.6 | 606.5 |
| 67.5° | 489.0 | 494.6 | 506.0 | 513.6 | 547.7 |
| 70° | 409.4 | 413.1 | 418.8 | 434.0 | 424.5 |
| 72.5° | 333.6 | 335.4 | 341.1 | 341.1 | 343.0 |
| 75° | 261.5 | 263.4 | 265.3 | 263.4 | 267.2 |
| 77.5° | 195.2 | 199.0 | 200.9 | 199.0 | 197.1 |
| 80° | 140.2 | 144.0 | 142.1 | 138.3 | 138.3 |
| 82.5° | 91.0 | 92.9 | 91.0 | 89.1 | 89.1 |
| 85° | 47.4 | 51.2 | 49.3 | 47.4 | 47.4 |
| 87.5° | 17.1 | 19.0 | 20.8 | 22.7 | 22.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)