

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: P296997

Luminaire Tested: **D3X-WG-36L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296997
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-36L83050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3661.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

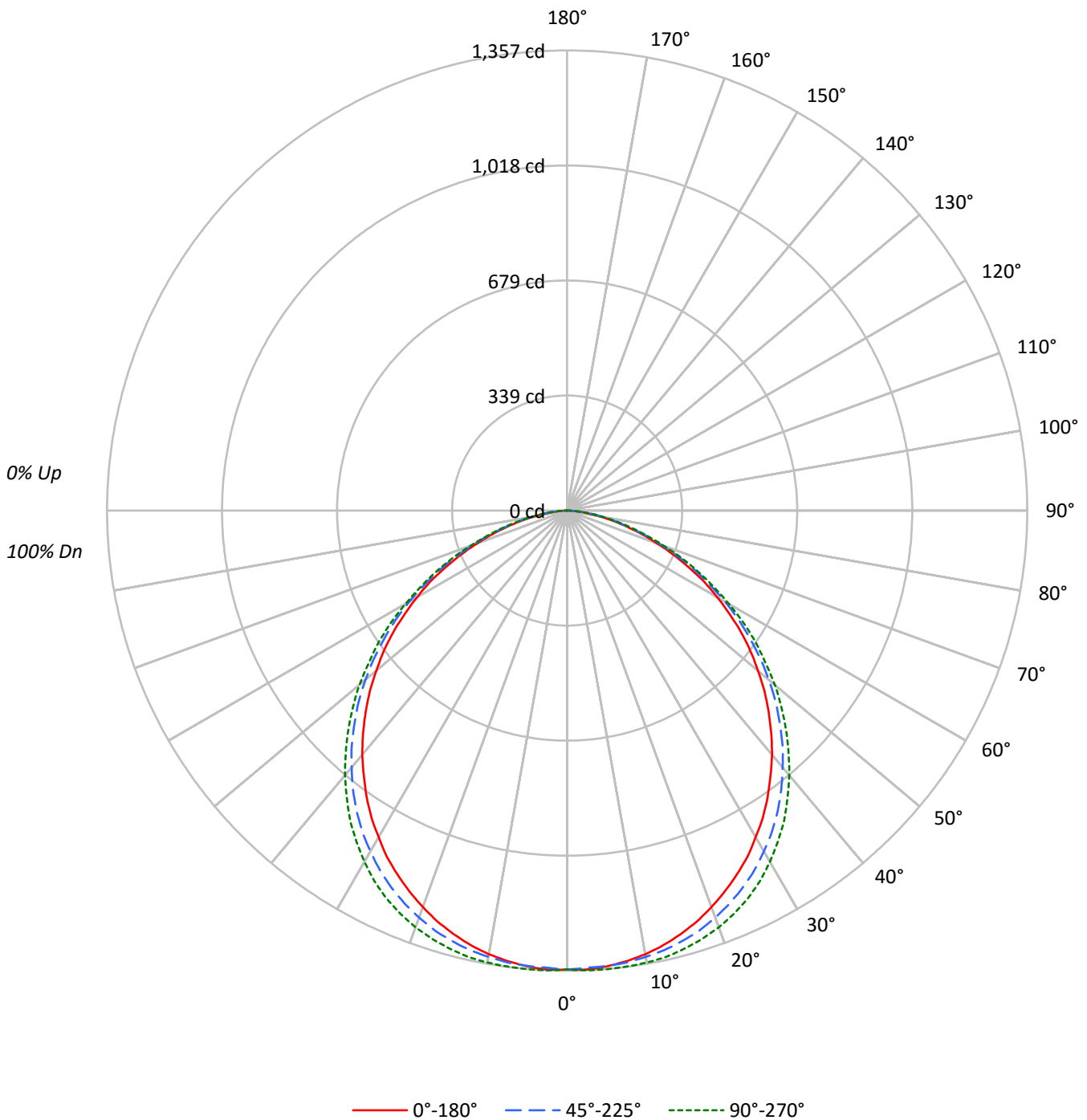
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 1821 | 1821 | 1821 |
| 5° | 1823 | 1821 | 1833 |
| 10° | 1815 | 1826 | 1849 |
| 15° | 1801 | 1830 | 1863 |
| 20° | 1782 | 1829 | 1872 |
| 25° | 1758 | 1820 | 1873 |
| 30° | 1728 | 1803 | 1858 |
| 35° | 1693 | 1777 | 1833 |
| 40° | 1652 | 1737 | 1790 |
| 45° | 1600 | 1687 | 1737 |
| 50° | 1537 | 1625 | 1675 |
| 55° | 1471 | 1544 | 1593 |
| 60° | 1376 | 1447 | 1482 |
| 65° | 1257 | 1323 | 1357 |
| 70° | 1104 | 1161 | 1192 |
| 75° | 934 | 981 | 1016 |
| 80° | 742 | 813 | 833 |
| 85° | 506 | 607 | 587 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.6 | 3.5 |
| 10°-20° | 371.3 | 10.1 |
| 20°-30° | 564.2 | 15.4 |
| 30°-40° | 673.2 | 18.4 |
| 40°-50° | 679.9 | 18.6 |
| 50°-60° | 585.8 | 16.0 |
| 60°-70° | 408.4 | 11.2 |
| 70°-80° | 202.4 | 5.5 |
| 80°-90° | 47.2 | 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° | 1064.1 | 29.1 |
| 0°-40° | 1737.3 | 47.5 |
| 0°-60° | 3003.0 | 82.0 |
| 0°-90° | 3661.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3661.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1353 | 1353 | 1353 | 1353 | 1353 | |
| 5° | 1350 | 1348 | 1348 | 1355 | 1357 | 128 |
| 15° | 1293 | 1300 | 1314 | 1331 | 1338 | 365 |
| 25° | 1184 | 1200 | 1226 | 1251 | 1262 | 546 |
| 35° | 1031 | 1048 | 1082 | 1107 | 1116 | 644 |
| 45° | 841 | 859 | 886 | 908 | 913 | 648 |
| 55° | 627 | 640 | 658 | 674 | 679 | 559 |
| 65° | 395 | 403 | 416 | 420 | 426 | 392 |
| 75° | 180 | 182 | 189 | 193 | 195 | 194 |
| 85° | 33 | 39 | 39 | 37 | 38 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1353.4 | 1353.4 | 1353.4 | 1353.4 | 1353.4 |
| 2.5° | 1354.7 | 1352.1 | 1349.5 | 1354.7 | 1357.3 |
| 5° | 1349.5 | 1348.1 | 1348.1 | 1354.7 | 1357.3 |
| 7.5° | 1340.3 | 1340.3 | 1344.2 | 1353.4 | 1356.0 |
| 10° | 1328.5 | 1331.1 | 1336.3 | 1349.5 | 1353.4 |
| 12.5° | 1312.7 | 1318.0 | 1327.2 | 1342.9 | 1348.1 |
| 15° | 1293.1 | 1299.6 | 1314.1 | 1331.1 | 1337.7 |
| 17.5° | 1270.8 | 1280.0 | 1298.3 | 1318.0 | 1324.5 |
| 20° | 1244.5 | 1256.3 | 1277.3 | 1299.6 | 1307.5 |
| 22.5° | 1215.7 | 1230.1 | 1253.7 | 1277.3 | 1286.5 |
| 25° | 1184.2 | 1200.0 | 1226.2 | 1251.1 | 1261.6 |
| 27.5° | 1151.4 | 1167.2 | 1196.0 | 1220.9 | 1231.4 |
| 30° | 1112.1 | 1130.5 | 1160.6 | 1186.8 | 1196.0 |
| 32.5° | 1074.1 | 1092.4 | 1123.9 | 1147.5 | 1156.7 |
| 35° | 1030.8 | 1047.8 | 1081.9 | 1106.8 | 1116.0 |
| 37.5° | 984.9 | 1004.6 | 1037.3 | 1059.6 | 1067.5 |
| 40° | 940.3 | 957.3 | 988.8 | 1011.1 | 1019.0 |
| 42.5° | 890.5 | 908.8 | 940.3 | 960.0 | 966.5 |
| 45° | 840.6 | 859.0 | 886.5 | 907.5 | 912.8 |
| 47.5° | 789.5 | 806.5 | 834.1 | 851.1 | 856.4 |
| 50° | 734.4 | 750.1 | 776.4 | 793.4 | 800.0 |
| 52.5° | 681.9 | 696.4 | 718.7 | 733.1 | 737.0 |
| 55° | 626.9 | 640.0 | 658.3 | 674.1 | 679.3 |
| 57.5° | 567.8 | 582.3 | 599.3 | 612.4 | 616.4 |
| 60° | 511.5 | 523.3 | 537.7 | 549.5 | 550.8 |
| 62.5° | 456.4 | 461.6 | 474.7 | 485.2 | 486.5 |
| 65° | 394.7 | 402.6 | 415.7 | 419.7 | 426.2 |
| 67.5° | 338.3 | 343.6 | 354.1 | 359.3 | 364.6 |
| 70° | 280.6 | 284.6 | 295.1 | 301.6 | 302.9 |
| 72.5° | 230.8 | 232.1 | 240.0 | 245.2 | 246.5 |
| 75° | 179.7 | 182.3 | 188.8 | 192.8 | 195.4 |
| 77.5° | 136.4 | 139.0 | 144.3 | 146.9 | 146.9 |
| 80° | 95.7 | 99.7 | 104.9 | 106.2 | 107.5 |
| 82.5° | 61.6 | 66.9 | 70.8 | 72.1 | 69.5 |
| 85° | 32.8 | 39.3 | 39.3 | 36.7 | 38.0 |
| 87.5° | 11.8 | 14.4 | 15.7 | 17.0 | 17.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)