

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: P297416

Luminaire Tested: **D3X-WO-36L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297416
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-36L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

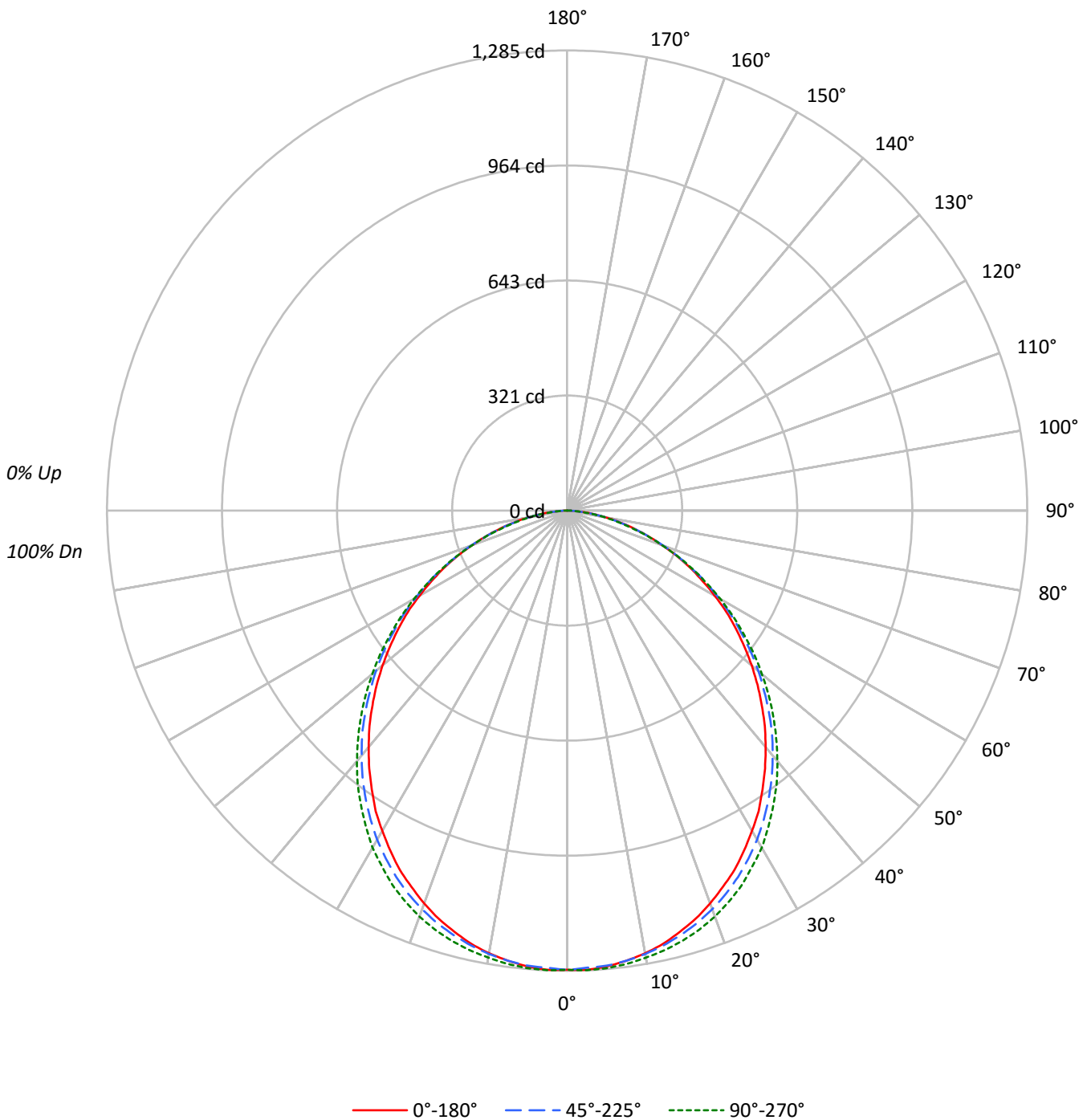
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: D3X-WO-36L93050-LD5-UNV-24-T1-W2A-4000K

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° | 1725 | 1725 | 1725 |
| 5° | 1726 | 1723 | 1732 |
| 10° | 1715 | 1718 | 1732 |
| 15° | 1696 | 1709 | 1733 |
| 20° | 1672 | 1696 | 1727 |
| 25° | 1643 | 1676 | 1713 |
| 30° | 1604 | 1648 | 1689 |
| 35° | 1562 | 1612 | 1649 |
| 40° | 1514 | 1568 | 1604 |
| 45° | 1463 | 1517 | 1550 |
| 50° | 1408 | 1460 | 1486 |
| 55° | 1348 | 1391 | 1412 |
| 60° | 1281 | 1314 | 1330 |
| 65° | 1208 | 1226 | 1233 |
| 70° | 1108 | 1122 | 1108 |
| 75° | 998 | 992 | 963 |
| 80° | 845 | 836 | 810 |
| 85° | 631 | 614 | 543 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.4 | 3.6 |
| 10°-20° | 346.9 | 10.3 |
| 20°-30° | 520.1 | 15.4 |
| 30°-40° | 612.5 | 18.2 |
| 40°-50° | 612.5 | 18.2 |
| 50°-60° | 528.5 | 15.7 |
| 60°-70° | 380.3 | 11.3 |
| 70°-80° | 201.7 | 6.0 |
| 80°-90° | 48.1 | 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° | 988.3 | 29.3 |
| 0°-40° | 1600.8 | 47.5 |
| 0°-60° | 2741.9 | 81.3 |
| 0°-90° | 3372.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3372.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1282 | 1282 | 1282 | 1282 | 1282 | |
| 5° | 1278 | 1277 | 1276 | 1280 | 1282 | 121 |
| 15° | 1218 | 1221 | 1227 | 1239 | 1244 | 343 |
| 25° | 1106 | 1113 | 1129 | 1148 | 1154 | 509 |
| 35° | 951 | 962 | 981 | 998 | 1004 | 595 |
| 45° | 769 | 779 | 797 | 811 | 814 | 593 |
| 55° | 575 | 580 | 593 | 603 | 602 | 514 |
| 65° | 379 | 380 | 385 | 387 | 387 | 375 |
| 75° | 192 | 190 | 191 | 186 | 185 | 204 |
| 85° | 41 | 41 | 40 | 36 | 35 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1282.4 | 1282.4 | 1282.4 | 1282.4 | 1282.4 |
| 2.5° | 1283.6 | 1281.3 | 1277.9 | 1282.4 | 1284.7 |
| 5° | 1277.9 | 1276.8 | 1275.6 | 1280.2 | 1282.4 |
| 7.5° | 1267.7 | 1268.8 | 1267.7 | 1274.5 | 1276.8 |
| 10° | 1255.2 | 1256.3 | 1257.4 | 1265.4 | 1267.7 |
| 12.5° | 1239.3 | 1240.4 | 1243.8 | 1254.0 | 1257.4 |
| 15° | 1217.7 | 1221.1 | 1226.8 | 1239.3 | 1243.8 |
| 17.5° | 1195.0 | 1199.5 | 1207.5 | 1222.2 | 1226.8 |
| 20° | 1167.7 | 1173.4 | 1184.7 | 1200.6 | 1206.3 |
| 22.5° | 1137.0 | 1142.7 | 1158.6 | 1175.7 | 1181.3 |
| 25° | 1106.4 | 1113.2 | 1129.1 | 1148.4 | 1154.1 |
| 27.5° | 1070.0 | 1079.1 | 1096.1 | 1115.5 | 1120.0 |
| 30° | 1032.5 | 1040.5 | 1060.9 | 1079.1 | 1087.1 |
| 32.5° | 995.1 | 1003.0 | 1022.3 | 1040.5 | 1046.2 |
| 35° | 950.8 | 962.1 | 981.4 | 998.5 | 1004.1 |
| 37.5° | 907.6 | 917.8 | 938.3 | 955.3 | 961.0 |
| 40° | 862.1 | 871.2 | 892.8 | 908.7 | 913.3 |
| 42.5° | 816.7 | 825.8 | 847.4 | 859.9 | 864.4 |
| 45° | 769.0 | 779.2 | 797.4 | 811.0 | 814.4 |
| 47.5° | 721.3 | 729.2 | 746.3 | 758.8 | 763.3 |
| 50° | 672.5 | 680.4 | 697.4 | 707.7 | 709.9 |
| 52.5° | 623.6 | 629.3 | 645.2 | 654.3 | 657.7 |
| 55° | 574.8 | 580.4 | 592.9 | 603.2 | 602.0 |
| 57.5° | 528.2 | 530.5 | 543.0 | 549.8 | 549.8 |
| 60° | 475.9 | 478.2 | 488.4 | 493.0 | 494.1 |
| 62.5° | 427.1 | 430.5 | 438.5 | 439.6 | 439.6 |
| 65° | 379.4 | 380.5 | 385.1 | 387.3 | 387.3 |
| 67.5° | 331.7 | 330.5 | 335.1 | 335.1 | 334.0 |
| 70° | 281.7 | 284.0 | 285.1 | 282.8 | 281.7 |
| 72.5° | 236.3 | 235.1 | 235.1 | 234.0 | 234.0 |
| 75° | 192.0 | 189.7 | 190.8 | 186.3 | 185.2 |
| 77.5° | 151.1 | 147.7 | 146.5 | 144.3 | 142.0 |
| 80° | 109.0 | 109.0 | 107.9 | 105.6 | 104.5 |
| 82.5° | 72.7 | 72.7 | 71.6 | 69.3 | 67.0 |
| 85° | 40.9 | 40.9 | 39.8 | 36.3 | 35.2 |
| 87.5° | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)