

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: P297415

Luminaire Tested: **D3X-WO-36L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297415
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

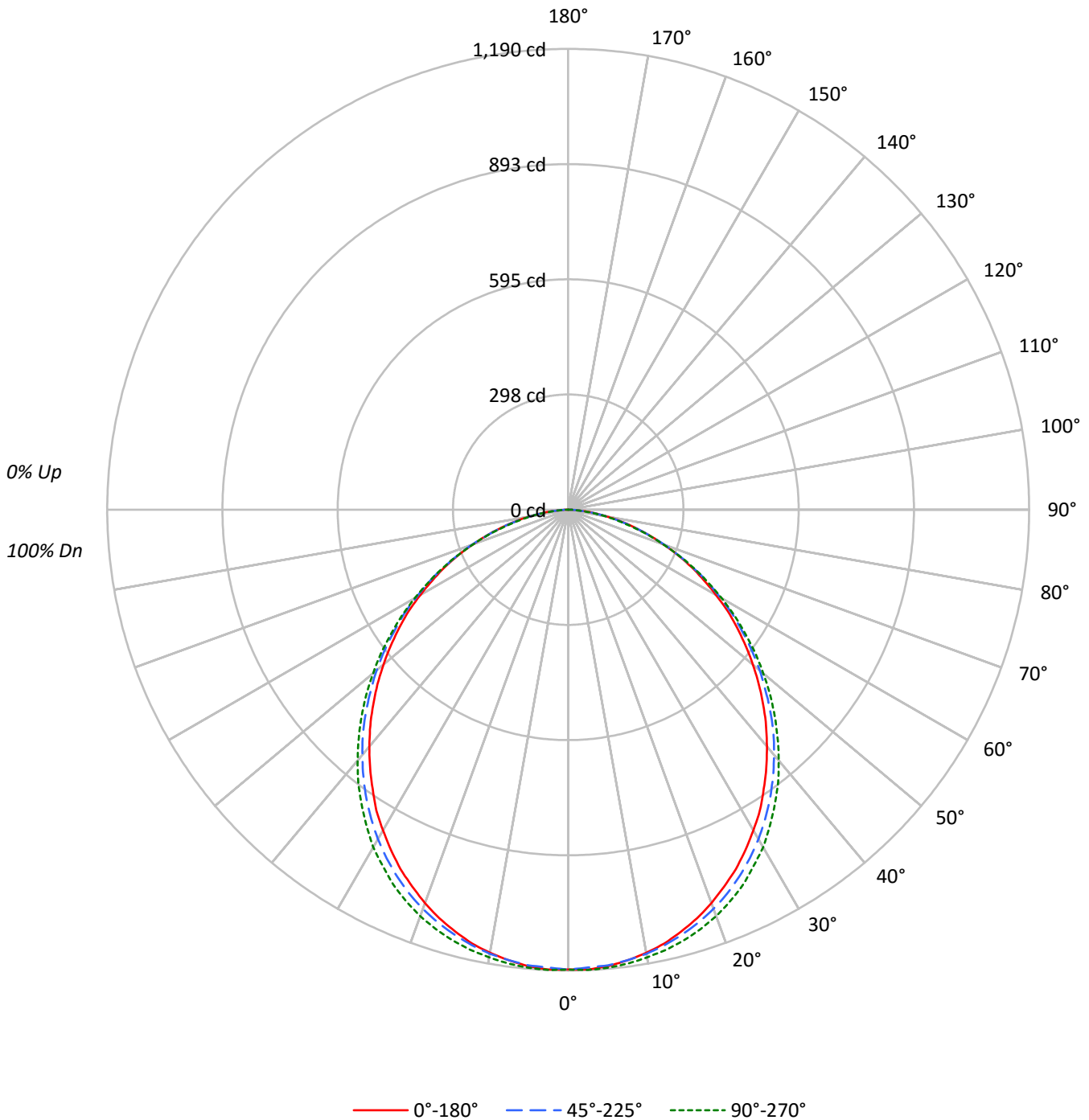
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297415

CATALOG NUMBER: D3X-WO-36L93050-LD5-UNV-24-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297415

CATALOG NUMBER: D3X-WO-36L93050-LD5-UNV-24-T1-W2A-3500K

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° | 1598 | 1598 | 1598 |
| 5° | 1598 | 1595 | 1604 |
| 10° | 1588 | 1591 | 1604 |
| 15° | 1570 | 1582 | 1604 |
| 20° | 1548 | 1571 | 1599 |
| 25° | 1521 | 1552 | 1586 |
| 30° | 1485 | 1526 | 1564 |
| 35° | 1446 | 1493 | 1527 |
| 40° | 1402 | 1452 | 1485 |
| 45° | 1355 | 1405 | 1435 |
| 50° | 1303 | 1352 | 1376 |
| 55° | 1248 | 1288 | 1308 |
| 60° | 1186 | 1217 | 1231 |
| 65° | 1118 | 1135 | 1142 |
| 70° | 1026 | 1039 | 1026 |
| 75° | 924 | 919 | 891 |
| 80° | 783 | 774 | 750 |
| 85° | 585 | 568 | 503 |



TEST NUMBER: P297415

CATALOG NUMBER: D3X-WO-36L93050-LD5-UNV-24-T1-W2A-3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.4 | 3.6 |
| 10°-20° | 321.1 | 10.3 |
| 20°-30° | 481.5 | 15.4 |
| 30°-40° | 567.0 | 18.2 |
| 40°-50° | 567.1 | 18.2 |
| 50°-60° | 489.3 | 15.7 |
| 60°-70° | 352.1 | 11.3 |
| 70°-80° | 186.8 | 6.0 |
| 80°-90° | 44.5 | 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° | 915.1 | 29.3 |
| 0°-40° | 1482.1 | 47.5 |
| 0°-60° | 2538.6 | 81.3 |
| 0°-90° | 3122.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3122.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1187 | 1187 | 1187 | 1187 | 1187 | |
| 5° | 1183 | 1182 | 1181 | 1185 | 1187 | 112 |
| 15° | 1127 | 1131 | 1136 | 1147 | 1152 | 318 |
| 25° | 1024 | 1031 | 1045 | 1063 | 1068 | 471 |
| 35° | 880 | 891 | 909 | 924 | 930 | 551 |
| 45° | 712 | 722 | 738 | 751 | 754 | 549 |
| 55° | 532 | 537 | 549 | 558 | 557 | 476 |
| 65° | 351 | 352 | 356 | 359 | 359 | 347 |
| 75° | 178 | 176 | 177 | 172 | 171 | 189 |
| 85° | 38 | 38 | 37 | 34 | 33 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297415

CATALOG NUMBER: D3X-WO-36L93050-LD5-UNV-24-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1187.4 | 1187.4 | 1187.4 | 1187.4 | 1187.4 |
| 2.5° | 1188.4 | 1186.3 | 1183.1 | 1187.4 | 1189.5 |
| 5° | 1183.1 | 1182.1 | 1181.0 | 1185.3 | 1187.4 |
| 7.5° | 1173.7 | 1174.7 | 1173.7 | 1180.0 | 1182.1 |
| 10° | 1162.1 | 1163.2 | 1164.2 | 1171.6 | 1173.7 |
| 12.5° | 1147.4 | 1148.4 | 1151.6 | 1161.1 | 1164.2 |
| 15° | 1127.4 | 1130.6 | 1135.8 | 1147.4 | 1151.6 |
| 17.5° | 1106.4 | 1110.6 | 1117.9 | 1131.6 | 1135.8 |
| 20° | 1081.1 | 1086.4 | 1096.9 | 1111.6 | 1116.9 |
| 22.5° | 1052.7 | 1058.0 | 1072.7 | 1088.5 | 1093.8 |
| 25° | 1024.3 | 1030.7 | 1045.4 | 1063.3 | 1068.5 |
| 27.5° | 990.7 | 999.1 | 1014.9 | 1032.8 | 1037.0 |
| 30° | 956.0 | 963.3 | 982.3 | 999.1 | 1006.5 |
| 32.5° | 921.3 | 928.6 | 946.5 | 963.3 | 968.6 |
| 35° | 880.3 | 890.8 | 908.7 | 924.4 | 929.7 |
| 37.5° | 840.3 | 849.8 | 868.7 | 884.5 | 889.7 |
| 40° | 798.2 | 806.6 | 826.6 | 841.3 | 845.6 |
| 42.5° | 756.2 | 764.6 | 784.6 | 796.1 | 800.3 |
| 45° | 712.0 | 721.5 | 738.3 | 750.9 | 754.1 |
| 47.5° | 667.8 | 675.2 | 691.0 | 702.5 | 706.7 |
| 50° | 622.6 | 630.0 | 645.7 | 655.2 | 657.3 |
| 52.5° | 577.4 | 582.6 | 597.4 | 605.8 | 608.9 |
| 55° | 532.2 | 537.4 | 549.0 | 558.4 | 557.4 |
| 57.5° | 489.0 | 491.1 | 502.7 | 509.0 | 509.0 |
| 60° | 440.7 | 442.8 | 452.2 | 456.4 | 457.5 |
| 62.5° | 395.4 | 398.6 | 406.0 | 407.0 | 407.0 |
| 65° | 351.3 | 352.3 | 356.5 | 358.6 | 358.6 |
| 67.5° | 307.1 | 306.0 | 310.2 | 310.2 | 309.2 |
| 70° | 260.8 | 262.9 | 264.0 | 261.9 | 260.8 |
| 72.5° | 218.8 | 217.7 | 217.7 | 216.6 | 216.6 |
| 75° | 177.7 | 175.6 | 176.7 | 172.5 | 171.4 |
| 77.5° | 139.9 | 136.7 | 135.7 | 133.6 | 131.5 |
| 80° | 101.0 | 101.0 | 99.9 | 97.8 | 96.8 |
| 82.5° | 67.3 | 67.3 | 66.3 | 64.2 | 62.0 |
| 85° | 37.9 | 37.9 | 36.8 | 33.7 | 32.6 |
| 87.5° | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)