

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: P298295

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L92765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

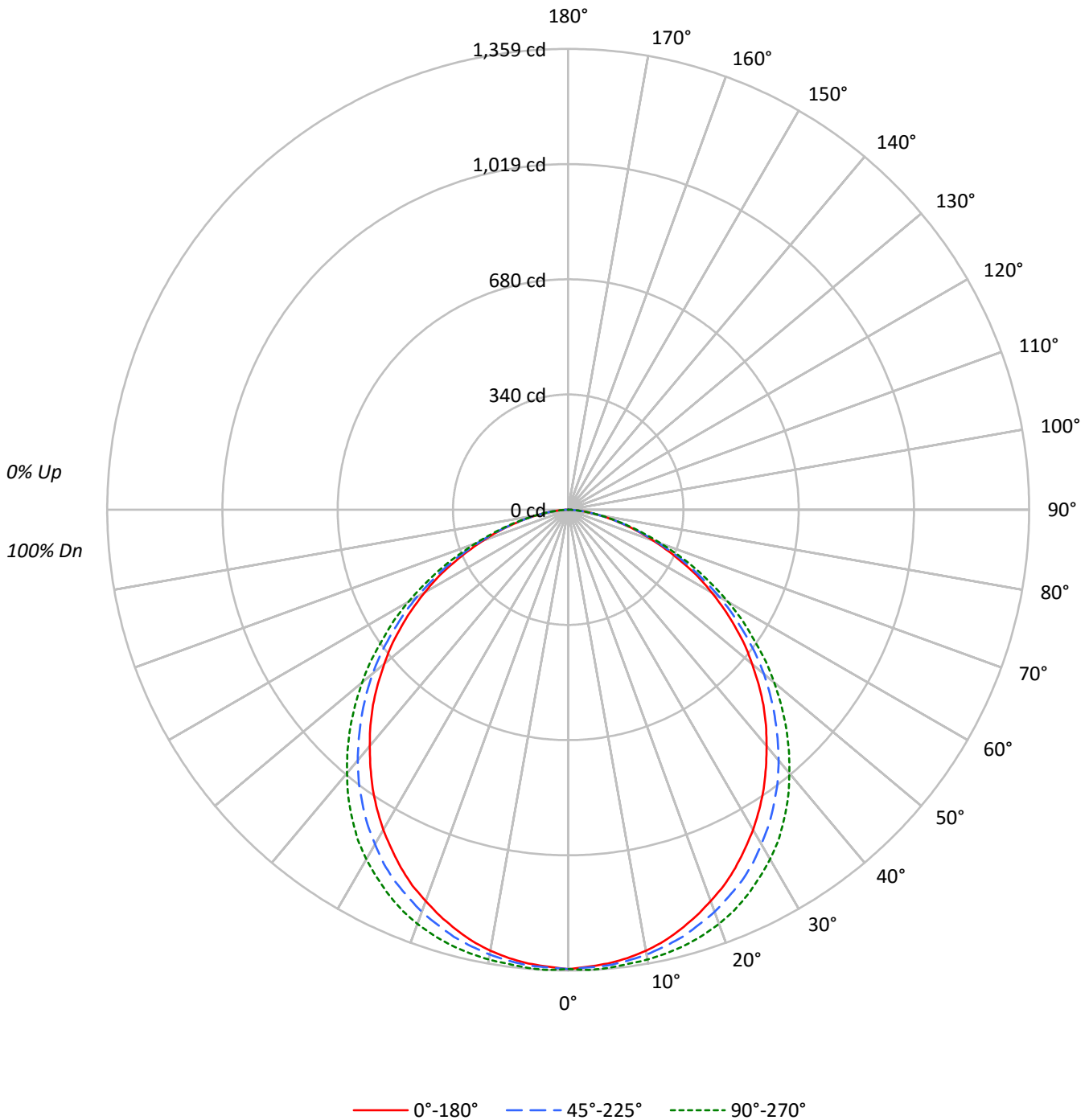
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 | | | | | 35 | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3646 | 3646 | 3646 |
| 5° | 3629 | 3644 | 3665 |
| 10° | 3609 | 3640 | 3681 |
| 15° | 3569 | 3632 | 3706 |
| 20° | 3517 | 3614 | 3722 |
| 25° | 3461 | 3590 | 3719 |
| 30° | 3387 | 3539 | 3698 |
| 35° | 3301 | 3475 | 3649 |
| 40° | 3197 | 3390 | 3563 |
| 45° | 3096 | 3276 | 3456 |
| 50° | 2963 | 3153 | 3319 |
| 55° | 2814 | 2974 | 3134 |
| 60° | 2627 | 2770 | 2933 |
| 65° | 2397 | 2506 | 2651 |
| 70° | 2099 | 2188 | 2278 |
| 75° | 1790 | 1830 | 1908 |
| 80° | 1437 | 1466 | 1495 |
| 85° | 1053 | 994 | 936 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.2 | 3.6 |
| 10°-20° | 368.0 | 10.3 |
| 20°-30° | 556.4 | 15.6 |
| 30°-40° | 660.9 | 18.5 |
| 40°-50° | 663.5 | 18.6 |
| 50°-60° | 566.7 | 15.9 |
| 60°-70° | 390.5 | 11.0 |
| 70°-80° | 189.3 | 5.3 |
| 80°-90° | 41.4 | 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° | 1052.7 | 29.5 |
| 0°-40° | 1713.6 | 48.1 |
| 0°-60° | 2943.8 | 82.6 |
| 0°-90° | 3565.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3565.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1355 | 1355 | 1355 | 1355 | 1355 | |
| 5° | 1343 | 1343 | 1349 | 1353 | 1357 | 128 |
| 15° | 1281 | 1287 | 1304 | 1321 | 1330 | 361 |
| 25° | 1166 | 1175 | 1209 | 1241 | 1253 | 536 |
| 35° | 1005 | 1020 | 1058 | 1097 | 1111 | 628 |
| 45° | 814 | 825 | 861 | 897 | 908 | 626 |
| 55° | 600 | 609 | 634 | 660 | 668 | 536 |
| 65° | 376 | 376 | 394 | 411 | 416 | 373 |
| 75° | 172 | 168 | 176 | 180 | 184 | 185 |
| 85° | 34 | 34 | 32 | 30 | 30 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1354.8 | 1354.8 | 1354.8 | 1354.8 | 1354.8 |
| 2.5° | 1349.1 | 1349.1 | 1351.0 | 1356.7 | 1358.6 |
| 5° | 1343.4 | 1343.4 | 1349.1 | 1352.9 | 1356.7 |
| 7.5° | 1334.0 | 1335.9 | 1341.5 | 1349.1 | 1351.0 |
| 10° | 1320.7 | 1322.6 | 1332.1 | 1341.5 | 1347.2 |
| 12.5° | 1303.7 | 1307.5 | 1318.8 | 1334.0 | 1339.6 |
| 15° | 1281.0 | 1286.7 | 1303.7 | 1320.7 | 1330.2 |
| 17.5° | 1256.4 | 1264.0 | 1282.9 | 1307.5 | 1316.9 |
| 20° | 1228.0 | 1237.5 | 1262.1 | 1288.6 | 1299.9 |
| 22.5° | 1199.6 | 1207.2 | 1235.6 | 1265.9 | 1279.1 |
| 25° | 1165.6 | 1175.0 | 1209.1 | 1241.3 | 1252.6 |
| 27.5° | 1127.7 | 1141.0 | 1176.9 | 1211.0 | 1222.3 |
| 30° | 1089.9 | 1101.2 | 1139.1 | 1176.9 | 1190.2 |
| 32.5° | 1048.3 | 1059.6 | 1101.2 | 1139.1 | 1154.2 |
| 35° | 1004.7 | 1019.9 | 1057.7 | 1097.4 | 1110.7 |
| 37.5° | 957.4 | 974.5 | 1014.2 | 1048.3 | 1065.3 |
| 40° | 910.1 | 925.3 | 965.0 | 1000.9 | 1014.2 |
| 42.5° | 862.8 | 876.1 | 913.9 | 951.8 | 963.1 |
| 45° | 813.6 | 825.0 | 860.9 | 896.9 | 908.2 |
| 47.5° | 760.6 | 773.9 | 807.9 | 838.2 | 851.5 |
| 50° | 707.7 | 720.9 | 753.1 | 781.5 | 792.8 |
| 52.5° | 656.6 | 664.1 | 694.4 | 720.9 | 734.2 |
| 55° | 599.8 | 609.3 | 633.9 | 660.4 | 667.9 |
| 57.5° | 544.9 | 550.6 | 575.2 | 597.9 | 609.3 |
| 60° | 488.2 | 492.0 | 514.7 | 531.7 | 544.9 |
| 62.5° | 435.2 | 435.2 | 452.2 | 471.1 | 478.7 |
| 65° | 376.5 | 376.5 | 393.6 | 410.6 | 416.3 |
| 67.5° | 319.8 | 323.6 | 334.9 | 348.2 | 351.9 |
| 70° | 266.8 | 266.8 | 278.1 | 287.6 | 289.5 |
| 72.5° | 219.5 | 217.6 | 223.3 | 230.8 | 234.6 |
| 75° | 172.2 | 168.4 | 176.0 | 179.8 | 183.5 |
| 77.5° | 130.6 | 128.7 | 132.5 | 136.2 | 136.2 |
| 80° | 92.7 | 90.8 | 94.6 | 94.6 | 96.5 |
| 82.5° | 60.5 | 62.4 | 62.4 | 60.5 | 58.7 |
| 85° | 34.1 | 34.1 | 32.2 | 30.3 | 30.3 |
| 87.5° | 11.4 | 11.4 | 11.4 | 13.2 | 13.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)