

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: P298044

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3723.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

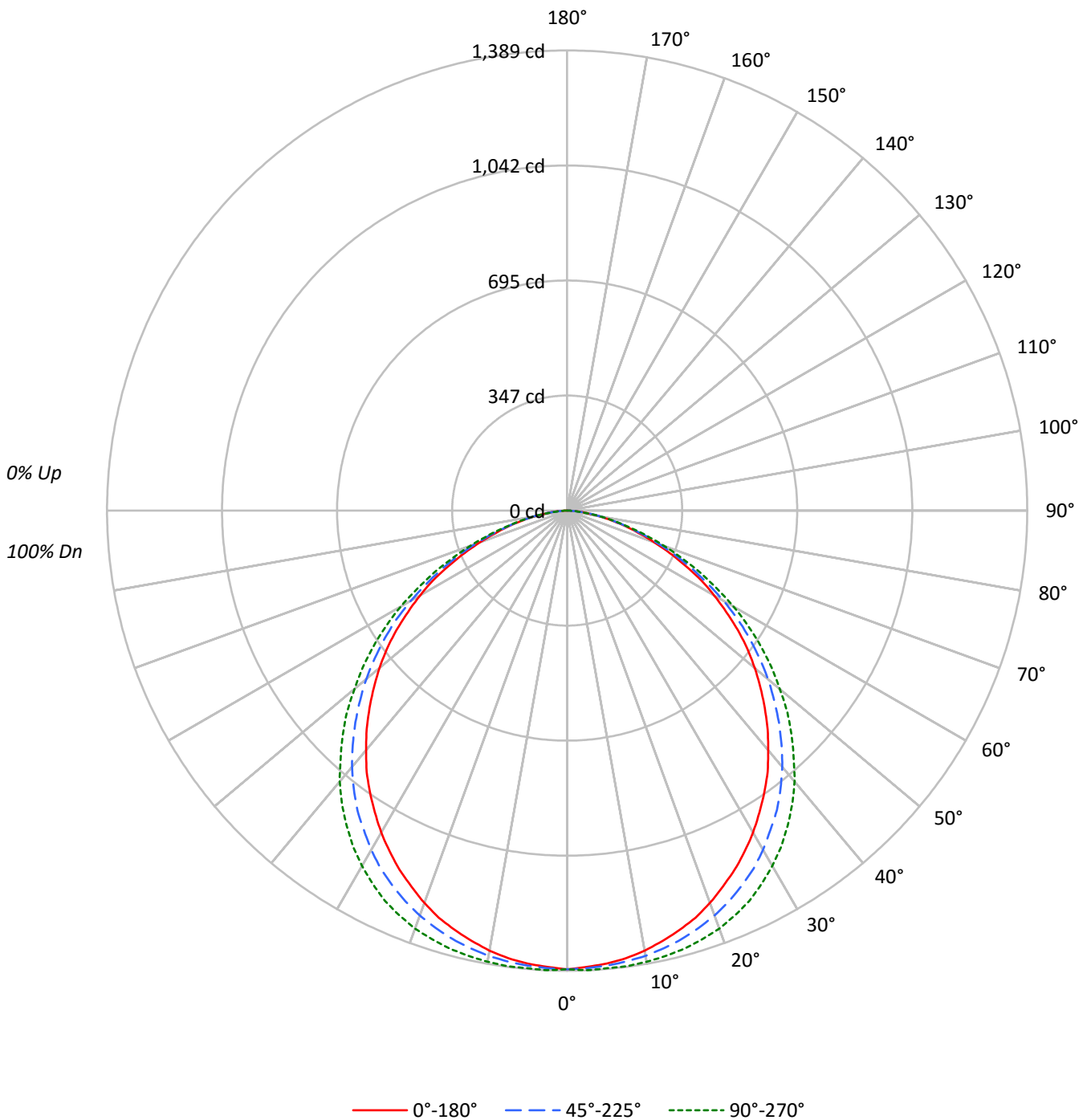
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P298044

CATALOG NUMBER: D3X-WD-44L82765-LD5-UNV-22-T1-W2A-2700K

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 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 56 | 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 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 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 | 31 | 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° | 3726 | 3726 | 3726 |
| 5° | 3708 | 3724 | 3746 |
| 10° | 3685 | 3729 | 3778 |
| 15° | 3651 | 3729 | 3813 |
| 20° | 3610 | 3725 | 3845 |
| 25° | 3552 | 3707 | 3862 |
| 30° | 3487 | 3674 | 3848 |
| 35° | 3410 | 3627 | 3812 |
| 40° | 3316 | 3548 | 3752 |
| 45° | 3211 | 3440 | 3645 |
| 50° | 3096 | 3314 | 3507 |
| 55° | 2952 | 3149 | 3347 |
| 60° | 2761 | 2934 | 3127 |
| 65° | 2501 | 2654 | 2820 |
| 70° | 2208 | 2318 | 2444 |
| 75° | 1896 | 1938 | 2021 |
| 80° | 1522 | 1553 | 1584 |
| 85° | 1115 | 991 | 991 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.2 | 3.5 |
| 10°-20° | 378.0 | 10.2 |
| 20°-30° | 575.0 | 15.4 |
| 30°-40° | 687.9 | 18.5 |
| 40°-50° | 695.4 | 18.7 |
| 50°-60° | 598.5 | 16.1 |
| 60°-70° | 413.2 | 11.1 |
| 70°-80° | 200.4 | 5.4 |
| 80°-90° | 43.5 | 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° | 1084.2 | 29.1 |
| 0°-40° | 1772.1 | 47.6 |
| 0°-60° | 3066.0 | 82.4 |
| 0°-90° | 3723.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3723.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1385 | 1385 | 1385 | 1385 | 1385 | |
| 5° | 1373 | 1375 | 1379 | 1385 | 1387 | 130 |
| 15° | 1311 | 1319 | 1339 | 1359 | 1369 | 370 |
| 25° | 1196 | 1210 | 1248 | 1286 | 1301 | 551 |
| 35° | 1038 | 1056 | 1104 | 1144 | 1160 | 649 |
| 45° | 844 | 860 | 904 | 942 | 958 | 651 |
| 55° | 629 | 639 | 671 | 701 | 713 | 561 |
| 65° | 393 | 399 | 417 | 435 | 443 | 391 |
| 75° | 182 | 178 | 186 | 192 | 194 | 194 |
| 85° | 36 | 36 | 32 | 32 | 32 | 44 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1384.7 | 1384.7 | 1384.7 | 1384.7 | 1384.7 |
| 2.5° | 1378.7 | 1378.7 | 1382.7 | 1386.7 | 1388.7 |
| 5° | 1372.7 | 1374.7 | 1378.7 | 1384.7 | 1386.7 |
| 7.5° | 1362.7 | 1364.7 | 1372.7 | 1382.7 | 1386.7 |
| 10° | 1348.7 | 1352.7 | 1364.7 | 1376.7 | 1382.7 |
| 12.5° | 1330.6 | 1338.6 | 1352.7 | 1368.7 | 1376.7 |
| 15° | 1310.6 | 1318.6 | 1338.6 | 1358.7 | 1368.7 |
| 17.5° | 1288.5 | 1296.6 | 1320.6 | 1346.7 | 1356.7 |
| 20° | 1260.5 | 1272.5 | 1300.6 | 1330.6 | 1342.7 |
| 22.5° | 1228.4 | 1244.5 | 1276.5 | 1308.6 | 1322.6 |
| 25° | 1196.4 | 1210.4 | 1248.5 | 1286.5 | 1300.6 |
| 27.5° | 1160.3 | 1176.3 | 1218.4 | 1256.5 | 1270.5 |
| 30° | 1122.2 | 1138.2 | 1182.3 | 1224.4 | 1238.4 |
| 32.5° | 1080.1 | 1100.2 | 1142.3 | 1186.3 | 1202.4 |
| 35° | 1038.1 | 1056.1 | 1104.2 | 1144.3 | 1160.3 |
| 37.5° | 994.0 | 1010.0 | 1058.1 | 1100.2 | 1116.2 |
| 40° | 943.9 | 961.9 | 1010.0 | 1052.1 | 1068.1 |
| 42.5° | 895.8 | 913.8 | 957.9 | 998.0 | 1012.0 |
| 45° | 843.7 | 859.7 | 903.8 | 941.9 | 957.9 |
| 47.5° | 791.6 | 809.6 | 847.7 | 885.8 | 901.8 |
| 50° | 739.5 | 753.5 | 791.6 | 827.6 | 837.7 |
| 52.5° | 685.4 | 697.4 | 731.4 | 763.5 | 777.5 |
| 55° | 629.2 | 639.3 | 671.3 | 701.4 | 713.4 |
| 57.5° | 569.1 | 581.1 | 611.2 | 633.3 | 647.3 |
| 60° | 513.0 | 519.0 | 545.1 | 567.1 | 581.1 |
| 62.5° | 456.9 | 458.9 | 478.9 | 501.0 | 509.0 |
| 65° | 392.8 | 398.8 | 416.8 | 434.9 | 442.9 |
| 67.5° | 334.7 | 340.7 | 354.7 | 368.7 | 374.7 |
| 70° | 280.6 | 280.6 | 294.6 | 304.6 | 310.6 |
| 72.5° | 226.4 | 228.5 | 238.5 | 244.5 | 250.5 |
| 75° | 182.4 | 178.4 | 186.4 | 192.4 | 194.4 |
| 77.5° | 136.3 | 134.3 | 140.3 | 142.3 | 146.3 |
| 80° | 98.2 | 98.2 | 100.2 | 102.2 | 102.2 |
| 82.5° | 64.1 | 64.1 | 66.1 | 62.1 | 60.1 |
| 85° | 36.1 | 36.1 | 32.1 | 32.1 | 32.1 |
| 87.5° | 12.0 | 12.0 | 12.0 | 14.0 | 12.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)