

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: P298365

Luminaire Tested: **D3X-WO-35L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L82765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3534.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

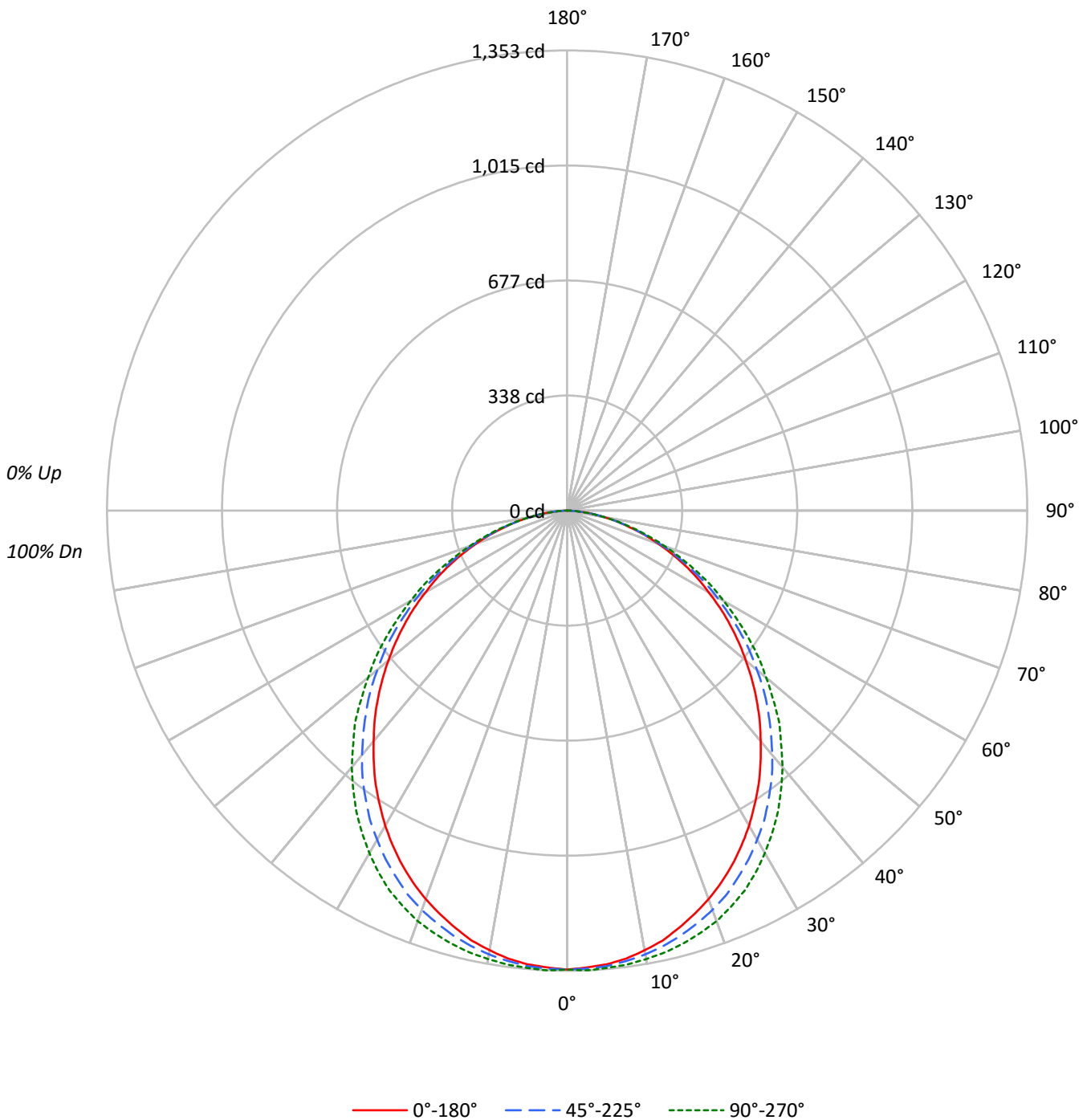
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 | 60 |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 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 | 48 | 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 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3632 | 3632 | 3632 |
| 5° | 3617 | 3631 | 3646 |
| 10° | 3587 | 3621 | 3659 |
| 15° | 3539 | 3603 | 3672 |
| 20° | 3482 | 3578 | 3678 |
| 25° | 3412 | 3532 | 3662 |
| 30° | 3324 | 3472 | 3614 |
| 35° | 3225 | 3393 | 3549 |
| 40° | 3109 | 3295 | 3462 |
| 45° | 3000 | 3181 | 3355 |
| 50° | 2873 | 3050 | 3197 |
| 55° | 2741 | 2906 | 3046 |
| 60° | 2585 | 2737 | 2860 |
| 65° | 2443 | 2532 | 2655 |
| 70° | 2243 | 2312 | 2395 |
| 75° | 1994 | 2049 | 2104 |
| 80° | 1719 | 1691 | 1691 |
| 85° | 1303 | 1195 | 1087 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.7 | 3.6 |
| 10°-20° | 364.9 | 10.3 |
| 20°-30° | 547.9 | 15.5 |
| 30°-40° | 644.8 | 18.2 |
| 40°-50° | 643.2 | 18.2 |
| 50°-60° | 551.9 | 15.6 |
| 60°-70° | 395.3 | 11.2 |
| 70°-80° | 209.3 | 5.9 |
| 80°-90° | 49.0 | 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° | 1040.5 | 29.4 |
| 0°-40° | 1685.3 | 47.7 |
| 0°-60° | 2880.4 | 81.5 |
| 0°-90° | 3534.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3534.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1350 | 1350 | 1350 | 1350 | 1350 | |
| 5° | 1339 | 1339 | 1344 | 1348 | 1350 | 127 |
| 15° | 1270 | 1276 | 1293 | 1311 | 1318 | 358 |
| 25° | 1149 | 1160 | 1190 | 1219 | 1234 | 529 |
| 35° | 982 | 994 | 1033 | 1068 | 1080 | 613 |
| 45° | 788 | 801 | 836 | 866 | 882 | 608 |
| 55° | 584 | 593 | 619 | 640 | 649 | 522 |
| 65° | 384 | 385 | 398 | 414 | 417 | 379 |
| 75° | 192 | 192 | 197 | 201 | 202 | 206 |
| 85° | 42 | 40 | 39 | 35 | 35 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1349.6 | 1349.6 | 1349.6 | 1349.6 | 1349.6 |
| 2.5° | 1344.3 | 1344.3 | 1347.8 | 1351.4 | 1353.1 |
| 5° | 1339.0 | 1339.0 | 1344.3 | 1347.8 | 1349.6 |
| 7.5° | 1328.5 | 1328.5 | 1335.5 | 1342.6 | 1346.1 |
| 10° | 1312.7 | 1316.2 | 1325.0 | 1335.5 | 1339.0 |
| 12.5° | 1295.1 | 1298.6 | 1310.9 | 1325.0 | 1330.2 |
| 15° | 1270.4 | 1275.7 | 1293.3 | 1310.9 | 1317.9 |
| 17.5° | 1244.0 | 1251.1 | 1272.2 | 1293.3 | 1302.1 |
| 20° | 1215.9 | 1222.9 | 1249.3 | 1273.9 | 1284.5 |
| 22.5° | 1184.2 | 1193.0 | 1222.9 | 1249.3 | 1259.9 |
| 25° | 1149.0 | 1159.6 | 1189.5 | 1219.4 | 1233.5 |
| 27.5° | 1110.3 | 1122.6 | 1156.0 | 1187.7 | 1200.0 |
| 30° | 1069.8 | 1083.9 | 1117.3 | 1150.8 | 1163.1 |
| 32.5° | 1025.8 | 1038.2 | 1078.6 | 1110.3 | 1122.6 |
| 35° | 981.8 | 994.2 | 1032.9 | 1068.1 | 1080.4 |
| 37.5° | 934.3 | 950.2 | 988.9 | 1020.6 | 1032.9 |
| 40° | 885.1 | 900.9 | 937.9 | 974.8 | 985.4 |
| 42.5° | 837.6 | 851.6 | 886.8 | 920.3 | 930.8 |
| 45° | 788.3 | 800.6 | 835.8 | 865.7 | 881.6 |
| 47.5° | 737.3 | 749.6 | 784.8 | 812.9 | 821.7 |
| 50° | 686.2 | 698.6 | 728.5 | 753.1 | 763.7 |
| 52.5° | 635.2 | 647.5 | 675.7 | 698.6 | 709.1 |
| 55° | 584.2 | 593.0 | 619.4 | 640.5 | 649.3 |
| 57.5° | 533.2 | 540.2 | 561.3 | 584.2 | 589.5 |
| 60° | 480.4 | 489.2 | 508.5 | 524.4 | 531.4 |
| 62.5° | 432.9 | 436.4 | 454.0 | 468.0 | 476.8 |
| 65° | 383.6 | 385.3 | 397.7 | 413.5 | 417.0 |
| 67.5° | 332.6 | 334.3 | 346.6 | 355.4 | 359.0 |
| 70° | 285.1 | 285.1 | 293.9 | 300.9 | 304.4 |
| 72.5° | 239.3 | 237.5 | 242.8 | 249.9 | 253.4 |
| 75° | 191.8 | 191.8 | 197.1 | 200.6 | 202.4 |
| 77.5° | 151.3 | 147.8 | 151.3 | 154.8 | 154.8 |
| 80° | 110.9 | 109.1 | 109.1 | 110.9 | 109.1 |
| 82.5° | 75.7 | 73.9 | 75.7 | 72.1 | 70.4 |
| 85° | 42.2 | 40.5 | 38.7 | 35.2 | 35.2 |
| 87.5° | 14.1 | 12.3 | 12.3 | 14.1 | 14.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)