

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: P298040

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298040
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-40L82765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3815.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

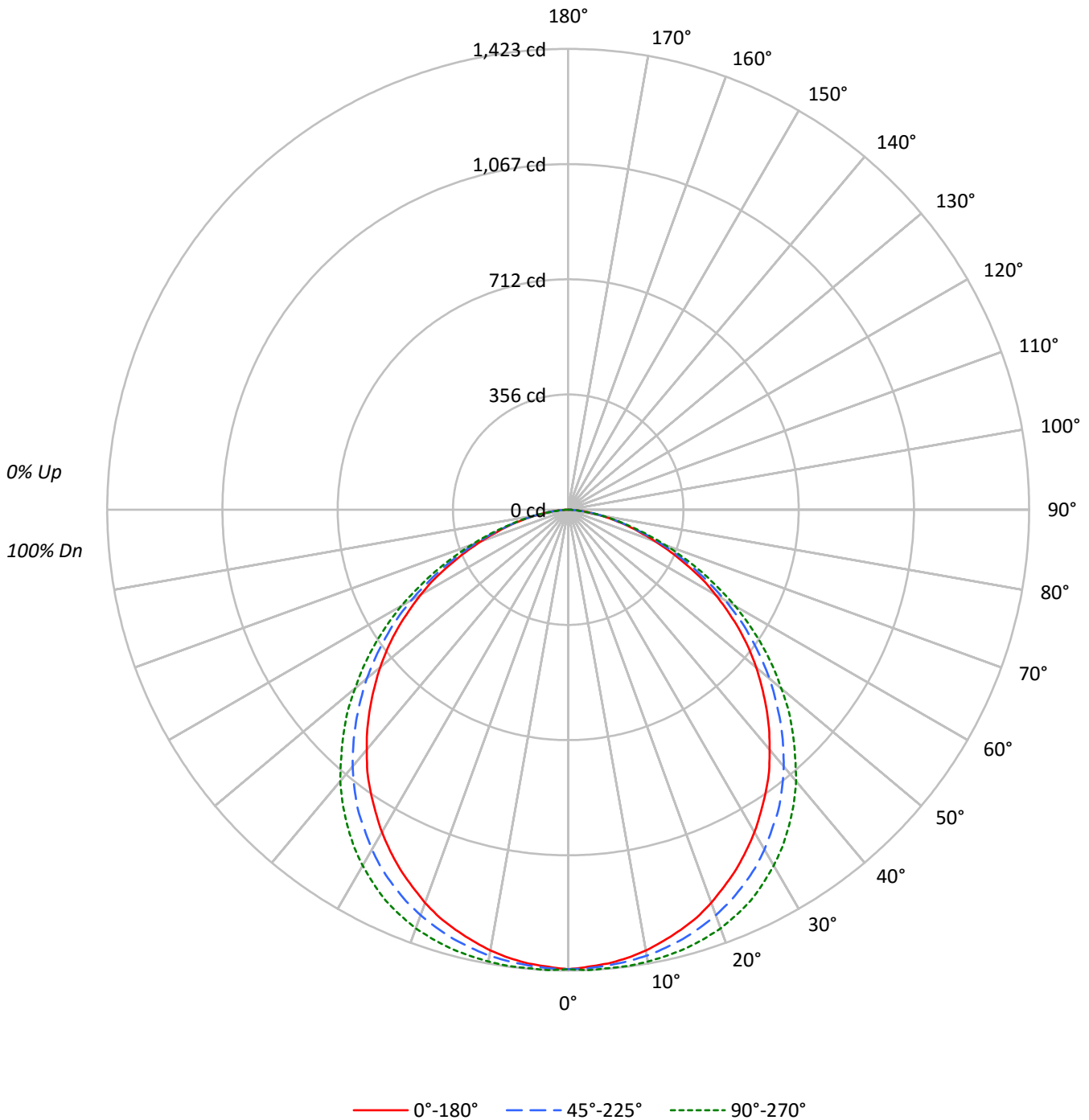
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P298040

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-5000K

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° | 3818 | 3818 | 3818 |
| 5° | 3800 | 3816 | 3838 |
| 10° | 3776 | 3821 | 3872 |
| 15° | 3741 | 3821 | 3907 |
| 20° | 3699 | 3816 | 3940 |
| 25° | 3640 | 3798 | 3957 |
| 30° | 3573 | 3765 | 3943 |
| 35° | 3494 | 3717 | 3906 |
| 40° | 3398 | 3636 | 3845 |
| 45° | 3290 | 3524 | 3736 |
| 50° | 3172 | 3396 | 3594 |
| 55° | 3025 | 3227 | 3430 |
| 60° | 2829 | 3006 | 3205 |
| 65° | 2563 | 2720 | 2890 |
| 70° | 2262 | 2375 | 2504 |
| 75° | 1943 | 1986 | 2071 |
| 80° | 1559 | 1592 | 1623 |
| 85° | 1142 | 1016 | 1016 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.5 | 3.5 |
| 10°-20° | 387.3 | 10.2 |
| 20°-30° | 589.2 | 15.4 |
| 30°-40° | 704.9 | 18.5 |
| 40°-50° | 712.6 | 18.7 |
| 50°-60° | 613.3 | 16.1 |
| 60°-70° | 423.4 | 11.1 |
| 70°-80° | 205.3 | 5.4 |
| 80°-90° | 44.5 | 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° | 1111.0 | 29.1 |
| 0°-40° | 1815.9 | 47.6 |
| 0°-60° | 3141.8 | 82.4 |
| 0°-90° | 3815.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3815.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1419 | 1419 | 1419 | 1419 | 1419 | |
| 5° | 1407 | 1409 | 1413 | 1419 | 1421 | 134 |
| 15° | 1343 | 1351 | 1372 | 1392 | 1402 | 379 |
| 25° | 1226 | 1240 | 1279 | 1318 | 1333 | 564 |
| 35° | 1064 | 1082 | 1132 | 1172 | 1189 | 665 |
| 45° | 864 | 881 | 926 | 965 | 982 | 667 |
| 55° | 645 | 655 | 688 | 719 | 731 | 575 |
| 65° | 402 | 409 | 427 | 446 | 454 | 401 |
| 75° | 187 | 183 | 191 | 197 | 199 | 198 |
| 85° | 37 | 37 | 33 | 33 | 33 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P298040

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1419.0 | 1419.0 | 1419.0 | 1419.0 | 1419.0 |
| 2.5° | 1412.8 | 1412.8 | 1416.9 | 1421.0 | 1423.1 |
| 5° | 1406.6 | 1408.7 | 1412.8 | 1419.0 | 1421.0 |
| 7.5° | 1396.4 | 1398.4 | 1406.6 | 1416.9 | 1421.0 |
| 10° | 1382.0 | 1386.1 | 1398.4 | 1410.7 | 1416.9 |
| 12.5° | 1363.5 | 1371.7 | 1386.1 | 1402.5 | 1410.7 |
| 15° | 1343.0 | 1351.2 | 1371.7 | 1392.3 | 1402.5 |
| 17.5° | 1320.4 | 1328.6 | 1353.2 | 1379.9 | 1390.2 |
| 20° | 1291.6 | 1304.0 | 1332.7 | 1363.5 | 1375.8 |
| 22.5° | 1258.8 | 1275.2 | 1308.1 | 1340.9 | 1355.3 |
| 25° | 1225.9 | 1240.3 | 1279.3 | 1318.3 | 1332.7 |
| 27.5° | 1189.0 | 1205.4 | 1248.5 | 1287.5 | 1301.9 |
| 30° | 1149.9 | 1166.4 | 1211.6 | 1254.7 | 1269.1 |
| 32.5° | 1106.8 | 1127.4 | 1170.5 | 1215.7 | 1232.1 |
| 35° | 1063.7 | 1082.2 | 1131.5 | 1172.5 | 1189.0 |
| 37.5° | 1018.5 | 1035.0 | 1084.2 | 1127.4 | 1143.8 |
| 40° | 967.2 | 985.7 | 1035.0 | 1078.1 | 1094.5 |
| 42.5° | 917.9 | 936.4 | 981.6 | 1022.6 | 1037.0 |
| 45° | 864.5 | 880.9 | 926.1 | 965.1 | 981.6 |
| 47.5° | 811.1 | 829.6 | 868.6 | 907.6 | 924.1 |
| 50° | 757.7 | 772.1 | 811.1 | 848.1 | 858.4 |
| 52.5° | 702.3 | 714.6 | 749.5 | 782.4 | 796.8 |
| 55° | 644.8 | 655.1 | 687.9 | 718.7 | 731.0 |
| 57.5° | 583.2 | 595.5 | 626.3 | 648.9 | 663.3 |
| 60° | 525.7 | 531.9 | 558.5 | 581.1 | 595.5 |
| 62.5° | 468.2 | 470.2 | 490.8 | 513.4 | 521.6 |
| 65° | 402.5 | 408.6 | 427.1 | 445.6 | 453.8 |
| 67.5° | 342.9 | 349.1 | 363.5 | 377.8 | 384.0 |
| 70° | 287.5 | 287.5 | 301.9 | 312.1 | 318.3 |
| 72.5° | 232.0 | 234.1 | 244.4 | 250.5 | 256.7 |
| 75° | 186.9 | 182.8 | 191.0 | 197.1 | 199.2 |
| 77.5° | 139.6 | 137.6 | 143.7 | 145.8 | 149.9 |
| 80° | 100.6 | 100.6 | 102.7 | 104.7 | 104.7 |
| 82.5° | 65.7 | 65.7 | 67.8 | 63.7 | 61.6 |
| 85° | 37.0 | 37.0 | 32.9 | 32.9 | 32.9 |
| 87.5° | 12.3 | 12.3 | 12.3 | 14.4 | 12.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)