

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: P297641

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L93050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

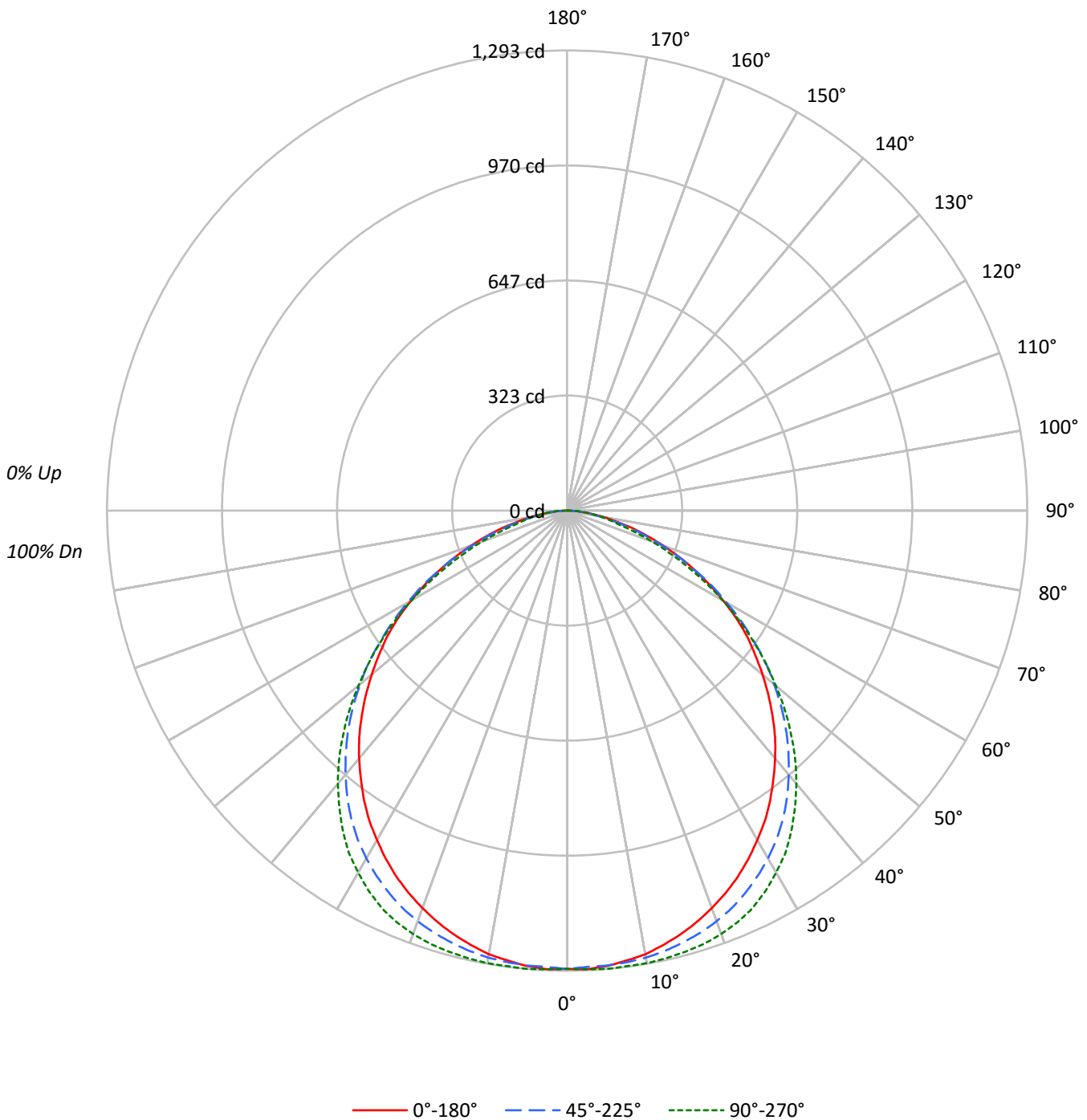
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 103 | 99 | 96 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 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 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3466 | 3466 | 3466 |
| 5° | 3471 | 3466 | 3492 |
| 10° | 3459 | 3485 | 3528 |
| 15° | 3434 | 3500 | 3575 |
| 20° | 3403 | 3517 | 3625 |
| 25° | 3370 | 3520 | 3660 |
| 30° | 3320 | 3507 | 3649 |
| 35° | 3267 | 3474 | 3609 |
| 40° | 3194 | 3404 | 3521 |
| 45° | 3105 | 3310 | 3388 |
| 50° | 3000 | 3178 | 3205 |
| 55° | 2896 | 3006 | 2992 |
| 60° | 2727 | 2786 | 2718 |
| 65° | 2513 | 2523 | 2382 |
| 70° | 2248 | 2198 | 1999 |
| 75° | 1953 | 1822 | 1543 |
| 80° | 1565 | 1418 | 1418 |
| 85° | 1121 | 1315 | 1365 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.5 | 3.5 |
| 10°-20° | 355.5 | 10.1 |
| 20°-30° | 545.9 | 15.4 |
| 30°-40° | 657.5 | 18.6 |
| 40°-50° | 664.4 | 18.8 |
| 50°-60° | 566.7 | 16.0 |
| 60°-70° | 388.0 | 11.0 |
| 70°-80° | 187.2 | 5.3 |
| 80°-90° | 48.2 | 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° | 1024.0 | 29.0 |
| 0°-40° | 1681.4 | 47.6 |
| 0°-60° | 2912.6 | 82.4 |
| 0°-90° | 3536.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3536.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1288 | 1288 | 1288 | 1288 | 1288 | |
| 5° | 1285 | 1285 | 1283 | 1291 | 1293 | 122 |
| 15° | 1233 | 1242 | 1256 | 1278 | 1283 | 348 |
| 25° | 1135 | 1152 | 1185 | 1220 | 1233 | 523 |
| 35° | 994 | 1016 | 1058 | 1091 | 1099 | 621 |
| 45° | 816 | 838 | 870 | 890 | 890 | 629 |
| 55° | 617 | 628 | 641 | 644 | 638 | 550 |
| 65° | 395 | 399 | 396 | 382 | 374 | 391 |
| 75° | 188 | 188 | 175 | 155 | 148 | 199 |
| 85° | 36 | 40 | 43 | 44 | 44 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297641

CATALOG NUMBER: D3X-WD-40L93050-LD5-UNV-14-T1-W2A-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 |
| 2.5° | 1289.6 | 1288.0 | 1283.2 | 1289.6 | 1289.6 |
| 5° | 1284.8 | 1284.8 | 1283.2 | 1291.1 | 1292.7 |
| 7.5° | 1275.3 | 1278.5 | 1280.1 | 1289.6 | 1291.1 |
| 10° | 1265.9 | 1269.0 | 1275.3 | 1288.0 | 1291.1 |
| 12.5° | 1250.1 | 1256.4 | 1267.5 | 1284.8 | 1288.0 |
| 15° | 1232.7 | 1242.2 | 1256.4 | 1278.5 | 1283.2 |
| 17.5° | 1212.2 | 1224.8 | 1243.8 | 1269.0 | 1276.9 |
| 20° | 1188.5 | 1202.7 | 1228.0 | 1256.4 | 1265.9 |
| 22.5° | 1163.3 | 1179.1 | 1209.1 | 1242.2 | 1251.7 |
| 25° | 1134.9 | 1152.2 | 1185.4 | 1220.1 | 1232.7 |
| 27.5° | 1103.3 | 1122.2 | 1158.5 | 1194.8 | 1205.9 |
| 30° | 1068.6 | 1089.1 | 1128.6 | 1164.9 | 1174.3 |
| 32.5° | 1033.9 | 1054.4 | 1095.4 | 1130.1 | 1141.2 |
| 35° | 994.4 | 1016.5 | 1057.5 | 1090.7 | 1098.6 |
| 37.5° | 951.8 | 973.9 | 1014.9 | 1048.1 | 1051.2 |
| 40° | 909.2 | 931.3 | 969.1 | 999.1 | 1002.3 |
| 42.5° | 865.0 | 885.5 | 920.2 | 945.5 | 948.6 |
| 45° | 816.0 | 838.1 | 869.7 | 890.2 | 890.2 |
| 47.5° | 767.1 | 789.2 | 816.0 | 830.2 | 830.2 |
| 50° | 716.6 | 737.1 | 759.2 | 767.1 | 765.5 |
| 52.5° | 666.1 | 685.0 | 704.0 | 705.5 | 702.4 |
| 55° | 617.2 | 628.2 | 640.8 | 644.0 | 637.7 |
| 57.5° | 563.5 | 573.0 | 580.9 | 576.1 | 571.4 |
| 60° | 506.7 | 516.1 | 517.7 | 509.8 | 505.1 |
| 62.5° | 451.4 | 459.3 | 459.3 | 446.7 | 438.8 |
| 65° | 394.6 | 399.3 | 396.2 | 382.0 | 374.1 |
| 67.5° | 340.9 | 344.1 | 337.8 | 323.6 | 310.9 |
| 70° | 285.7 | 287.3 | 279.4 | 262.0 | 254.1 |
| 72.5° | 235.2 | 236.8 | 227.3 | 206.8 | 197.3 |
| 75° | 187.8 | 187.8 | 175.2 | 154.7 | 148.4 |
| 77.5° | 140.5 | 145.2 | 131.0 | 120.0 | 120.0 |
| 80° | 101.0 | 105.8 | 91.5 | 93.1 | 91.5 |
| 82.5° | 66.3 | 71.0 | 66.3 | 66.3 | 66.3 |
| 85° | 36.3 | 39.5 | 42.6 | 44.2 | 44.2 |
| 87.5° | 11.0 | 18.9 | 20.5 | 22.1 | 25.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)