

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: P257301

Luminaire Tested: **D3X-WD-44L835-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L835-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4102.9 lumens
Efficiency: N/A
Efficacy: 103.6 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

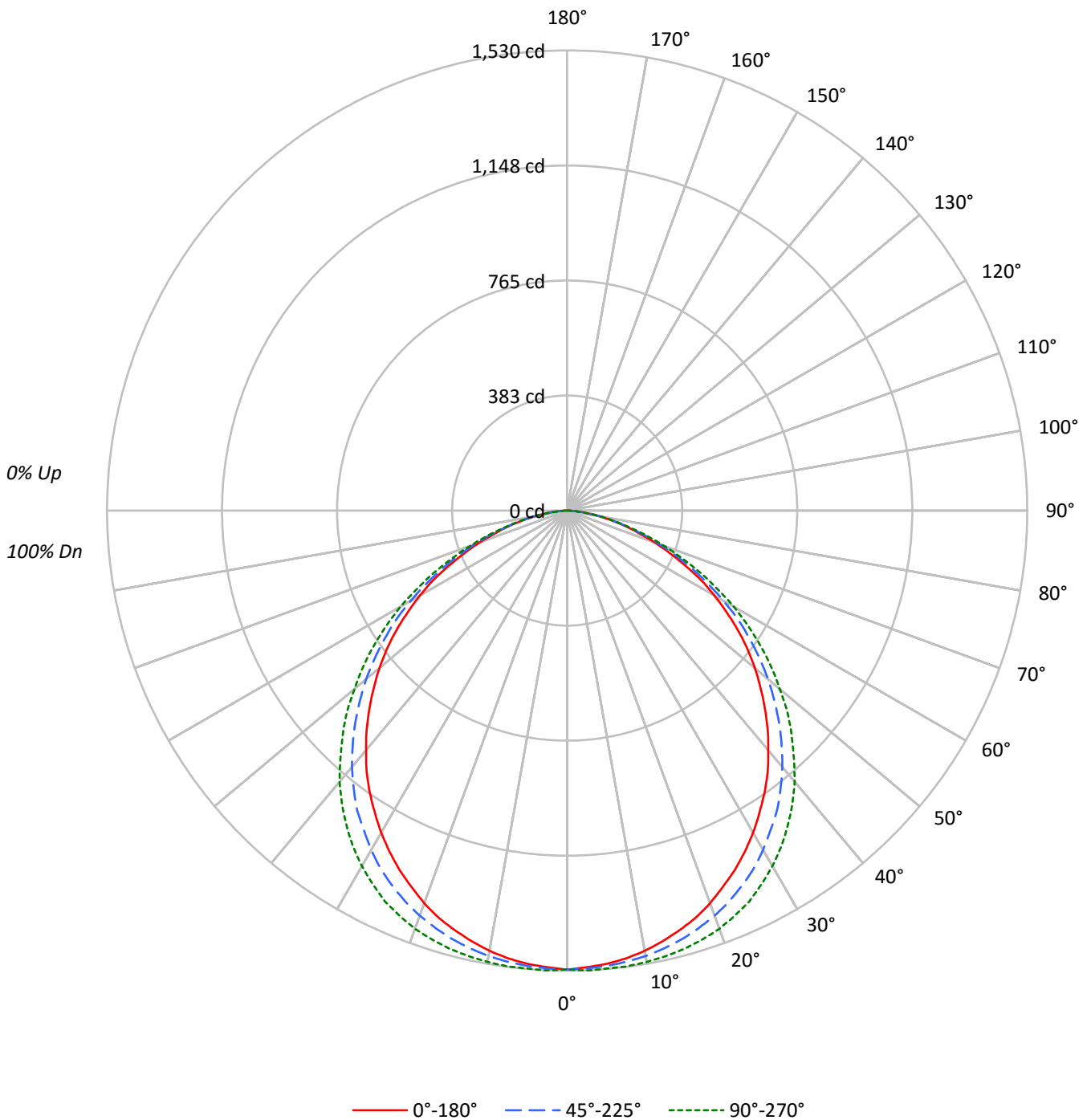
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 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 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4106 | 4106 | 4106 |
| 5° | 4086 | 4104 | 4128 |
| 10° | 4061 | 4109 | 4164 |
| 15° | 4024 | 4110 | 4202 |
| 20° | 3978 | 4105 | 4237 |
| 25° | 3915 | 4085 | 4256 |
| 30° | 3843 | 4049 | 4241 |
| 35° | 3758 | 3997 | 4201 |
| 40° | 3654 | 3910 | 4135 |
| 45° | 3538 | 3790 | 4017 |
| 50° | 3412 | 3652 | 3864 |
| 55° | 3253 | 3471 | 3689 |
| 60° | 3043 | 3233 | 3447 |
| 65° | 2756 | 2925 | 3108 |
| 70° | 2433 | 2554 | 2693 |
| 75° | 2090 | 2136 | 2227 |
| 80° | 1677 | 1711 | 1745 |
| 85° | 1229 | 1090 | 1090 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.6 | 3.5 |
| 10°-20° | 416.6 | 10.2 |
| 20°-30° | 633.6 | 15.4 |
| 30°-40° | 758.1 | 18.5 |
| 40°-50° | 766.4 | 18.7 |
| 50°-60° | 659.5 | 16.1 |
| 60°-70° | 455.3 | 11.1 |
| 70°-80° | 220.8 | 5.4 |
| 80°-90° | 47.9 | 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° | 1194.8 | 29.1 |
| 0°-40° | 1952.9 | 47.6 |
| 0°-60° | 3378.8 | 82.4 |
| 0°-90° | 4102.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4102.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1526 | 1526 | 1526 | 1526 | 1526 | |
| 5° | 1513 | 1515 | 1519 | 1526 | 1528 | 144 |
| 15° | 1444 | 1453 | 1475 | 1497 | 1508 | 407 |
| 25° | 1318 | 1334 | 1376 | 1418 | 1433 | 607 |
| 35° | 1144 | 1164 | 1217 | 1261 | 1279 | 715 |
| 45° | 930 | 947 | 996 | 1038 | 1056 | 717 |
| 55° | 693 | 704 | 740 | 773 | 786 | 618 |
| 65° | 433 | 440 | 459 | 479 | 488 | 431 |
| 75° | 201 | 196 | 205 | 212 | 214 | 213 |
| 85° | 40 | 40 | 35 | 35 | 35 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1526.0 | 1526.0 | 1526.0 | 1526.0 | 1526.0 |
| 2.5° | 1519.4 | 1519.4 | 1523.8 | 1528.2 | 1530.4 |
| 5° | 1512.8 | 1515.0 | 1519.4 | 1526.0 | 1528.2 |
| 7.5° | 1501.7 | 1503.9 | 1512.8 | 1523.8 | 1528.2 |
| 10° | 1486.3 | 1490.7 | 1503.9 | 1517.2 | 1523.8 |
| 12.5° | 1466.4 | 1475.2 | 1490.7 | 1508.4 | 1517.2 |
| 15° | 1444.3 | 1453.1 | 1475.2 | 1497.3 | 1508.4 |
| 17.5° | 1420.0 | 1428.9 | 1455.4 | 1484.1 | 1495.1 |
| 20° | 1389.1 | 1402.3 | 1433.3 | 1466.4 | 1479.6 |
| 22.5° | 1353.8 | 1371.4 | 1406.8 | 1442.1 | 1457.6 |
| 25° | 1318.4 | 1333.9 | 1375.8 | 1417.8 | 1433.3 |
| 27.5° | 1278.7 | 1296.3 | 1342.7 | 1384.7 | 1400.1 |
| 30° | 1236.7 | 1254.4 | 1303.0 | 1349.3 | 1364.8 |
| 32.5° | 1190.3 | 1212.4 | 1258.8 | 1307.4 | 1325.1 |
| 35° | 1144.0 | 1163.8 | 1216.8 | 1261.0 | 1278.7 |
| 37.5° | 1095.4 | 1113.0 | 1166.0 | 1212.4 | 1230.1 |
| 40° | 1040.2 | 1060.0 | 1113.0 | 1159.4 | 1177.1 |
| 42.5° | 987.2 | 1007.0 | 1055.6 | 1099.8 | 1115.3 |
| 45° | 929.7 | 947.4 | 996.0 | 1038.0 | 1055.6 |
| 47.5° | 872.3 | 892.2 | 934.2 | 976.1 | 993.8 |
| 50° | 814.9 | 830.4 | 872.3 | 912.1 | 923.1 |
| 52.5° | 755.3 | 768.5 | 806.1 | 841.4 | 856.9 |
| 55° | 693.4 | 704.5 | 739.8 | 772.9 | 786.2 |
| 57.5° | 627.2 | 640.4 | 673.6 | 697.9 | 713.3 |
| 60° | 565.4 | 572.0 | 600.7 | 625.0 | 640.4 |
| 62.5° | 503.5 | 505.7 | 527.8 | 552.1 | 560.9 |
| 65° | 432.9 | 439.5 | 459.4 | 479.2 | 488.1 |
| 67.5° | 368.8 | 375.4 | 390.9 | 406.4 | 413.0 |
| 70° | 309.2 | 309.2 | 324.6 | 335.7 | 342.3 |
| 72.5° | 249.6 | 251.8 | 262.8 | 269.4 | 276.1 |
| 75° | 201.0 | 196.5 | 205.4 | 212.0 | 214.2 |
| 77.5° | 150.2 | 148.0 | 154.6 | 156.8 | 161.2 |
| 80° | 108.2 | 108.2 | 110.4 | 112.6 | 112.6 |
| 82.5° | 70.7 | 70.7 | 72.9 | 68.5 | 66.3 |
| 85° | 39.8 | 39.8 | 35.3 | 35.3 | 35.3 |
| 87.5° | 13.3 | 13.3 | 13.3 | 15.5 | 13.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)