

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: P257278

Luminaire Tested: **D3X-WD-25L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257278
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-25L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2363.2 lumens
Efficiency: N/A
Efficacy: 113.1 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

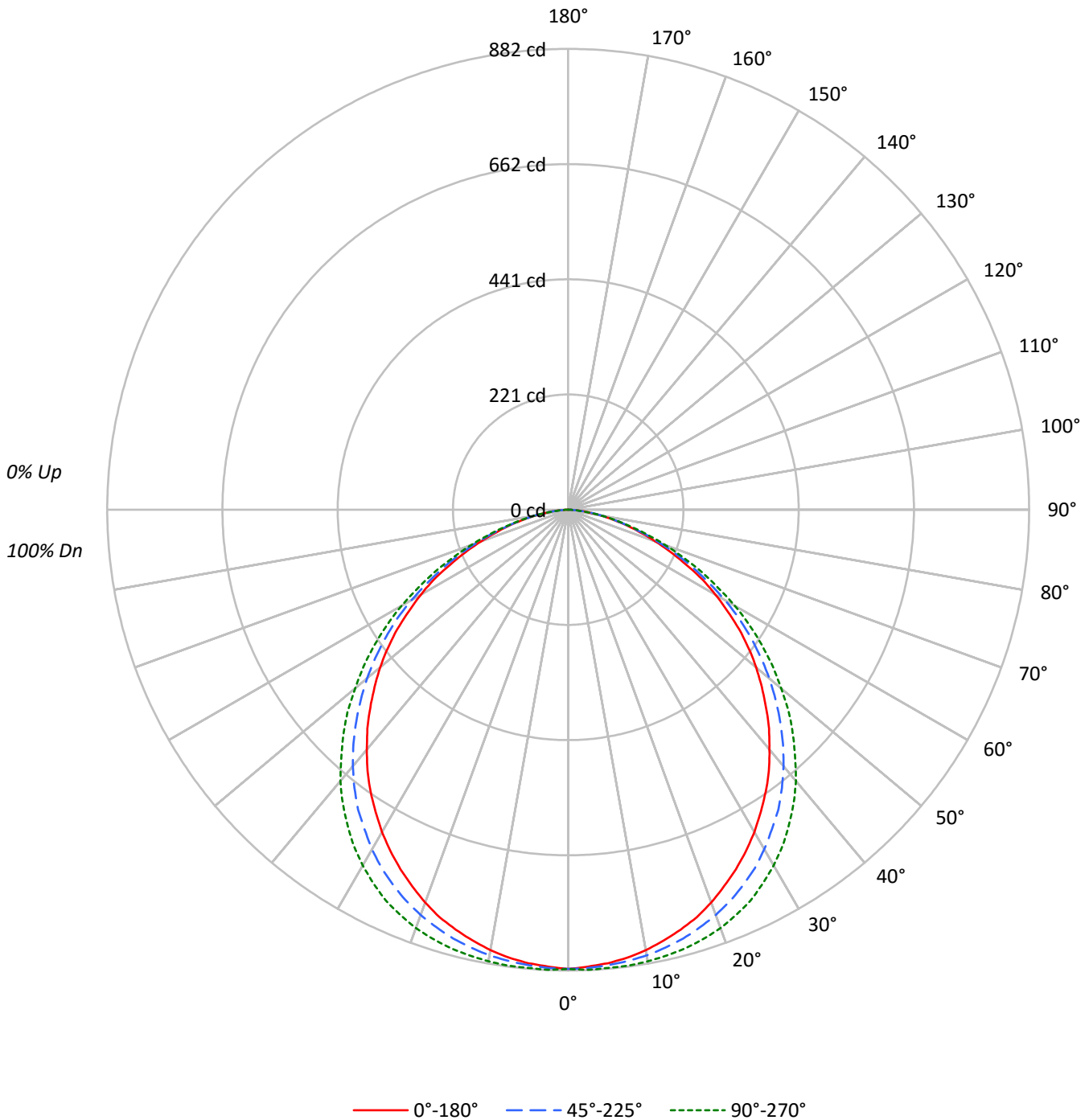
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257278

CATALOG NUMBER: D3X-WD-25L840-LD5-UNV-22-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P257278

CATALOG NUMBER: D3X-WD-25L840-LD5-UNV-22-T1-STD

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° | 2365 | 2365 | 2365 |
| 5° | 2354 | 2364 | 2378 |
| 10° | 2339 | 2367 | 2398 |
| 15° | 2318 | 2367 | 2420 |
| 20° | 2291 | 2364 | 2441 |
| 25° | 2255 | 2353 | 2451 |
| 30° | 2213 | 2332 | 2443 |
| 35° | 2165 | 2303 | 2419 |
| 40° | 2105 | 2252 | 2382 |
| 45° | 2038 | 2183 | 2314 |
| 50° | 1965 | 2103 | 2226 |
| 55° | 1874 | 1999 | 2124 |
| 60° | 1752 | 1862 | 1985 |
| 65° | 1587 | 1685 | 1790 |
| 70° | 1401 | 1471 | 1552 |
| 75° | 1204 | 1230 | 1283 |
| 80° | 965 | 986 | 1006 |
| 85° | 707 | 630 | 630 |



TEST NUMBER: P257278

CATALOG NUMBER: D3X-WD-25L840-LD5-UNV-22-T1-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.3 | 3.5 |
| 10°-20° | 239.9 | 10.2 |
| 20°-30° | 365.0 | 15.4 |
| 30°-40° | 436.6 | 18.5 |
| 40°-50° | 441.4 | 18.7 |
| 50°-60° | 379.9 | 16.1 |
| 60°-70° | 262.3 | 11.1 |
| 70°-80° | 127.2 | 5.4 |
| 80°-90° | 27.6 | 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° | 688.2 | 29.1 |
| 0°-40° | 1124.8 | 47.6 |
| 0°-60° | 1946.2 | 82.4 |
| 0°-90° | 2363.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2363.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 879 | 879 | 879 | 879 | 879 | |
| 5° | 871 | 873 | 875 | 879 | 880 | 83 |
| 15° | 832 | 837 | 850 | 862 | 869 | 235 |
| 25° | 759 | 768 | 792 | 817 | 826 | 350 |
| 35° | 659 | 670 | 701 | 726 | 736 | 412 |
| 45° | 536 | 546 | 574 | 598 | 608 | 413 |
| 55° | 399 | 406 | 426 | 445 | 453 | 356 |
| 65° | 249 | 253 | 265 | 276 | 281 | 248 |
| 75° | 116 | 113 | 118 | 122 | 123 | 123 |
| 85° | 23 | 23 | 20 | 20 | 20 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P257278

CATALOG NUMBER: D3X-WD-25L840-LD5-UNV-22-T1-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 879.0 | 879.0 | 879.0 | 879.0 | 879.0 |
| 2.5° | 875.2 | 875.2 | 877.7 | 880.2 | 881.5 |
| 5° | 871.3 | 872.6 | 875.2 | 879.0 | 880.2 |
| 7.5° | 865.0 | 866.2 | 871.3 | 877.7 | 880.2 |
| 10° | 856.1 | 858.6 | 866.2 | 873.9 | 877.7 |
| 12.5° | 844.6 | 849.7 | 858.6 | 868.8 | 873.9 |
| 15° | 831.9 | 837.0 | 849.7 | 862.4 | 868.8 |
| 17.5° | 817.9 | 823.0 | 838.3 | 854.8 | 861.2 |
| 20° | 800.1 | 807.7 | 825.5 | 844.6 | 852.3 |
| 22.5° | 779.8 | 789.9 | 810.3 | 830.6 | 839.5 |
| 25° | 759.4 | 768.3 | 792.5 | 816.6 | 825.5 |
| 27.5° | 736.5 | 746.7 | 773.4 | 797.6 | 806.5 |
| 30° | 712.3 | 722.5 | 750.5 | 777.2 | 786.1 |
| 32.5° | 685.6 | 698.3 | 725.1 | 753.0 | 763.2 |
| 35° | 658.9 | 670.4 | 700.9 | 726.3 | 736.5 |
| 37.5° | 630.9 | 641.1 | 671.6 | 698.3 | 708.5 |
| 40° | 599.1 | 610.6 | 641.1 | 667.8 | 678.0 |
| 42.5° | 568.6 | 580.0 | 608.0 | 633.5 | 642.4 |
| 45° | 535.5 | 545.7 | 573.7 | 597.9 | 608.0 |
| 47.5° | 502.4 | 513.9 | 538.1 | 562.2 | 572.4 |
| 50° | 469.4 | 478.3 | 502.4 | 525.3 | 531.7 |
| 52.5° | 435.0 | 442.7 | 464.3 | 484.6 | 493.5 |
| 55° | 399.4 | 405.8 | 426.1 | 445.2 | 452.8 |
| 57.5° | 361.3 | 368.9 | 388.0 | 402.0 | 410.9 |
| 60° | 325.6 | 329.5 | 346.0 | 360.0 | 368.9 |
| 62.5° | 290.0 | 291.3 | 304.0 | 318.0 | 323.1 |
| 65° | 249.3 | 253.1 | 264.6 | 276.0 | 281.1 |
| 67.5° | 212.4 | 216.2 | 225.1 | 234.1 | 237.9 |
| 70° | 178.1 | 178.1 | 187.0 | 193.3 | 197.2 |
| 72.5° | 143.7 | 145.0 | 151.4 | 155.2 | 159.0 |
| 75° | 115.8 | 113.2 | 118.3 | 122.1 | 123.4 |
| 77.5° | 86.5 | 85.2 | 89.0 | 90.3 | 92.9 |
| 80° | 62.3 | 62.3 | 63.6 | 64.9 | 64.9 |
| 82.5° | 40.7 | 40.7 | 42.0 | 39.4 | 38.2 |
| 85° | 22.9 | 22.9 | 20.4 | 20.4 | 20.4 |
| 87.5° | 7.6 | 7.6 | 7.6 | 8.9 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)