

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: P257439

Luminaire Tested: **D3X-WG-26L940-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-26L940-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (112) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2294.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

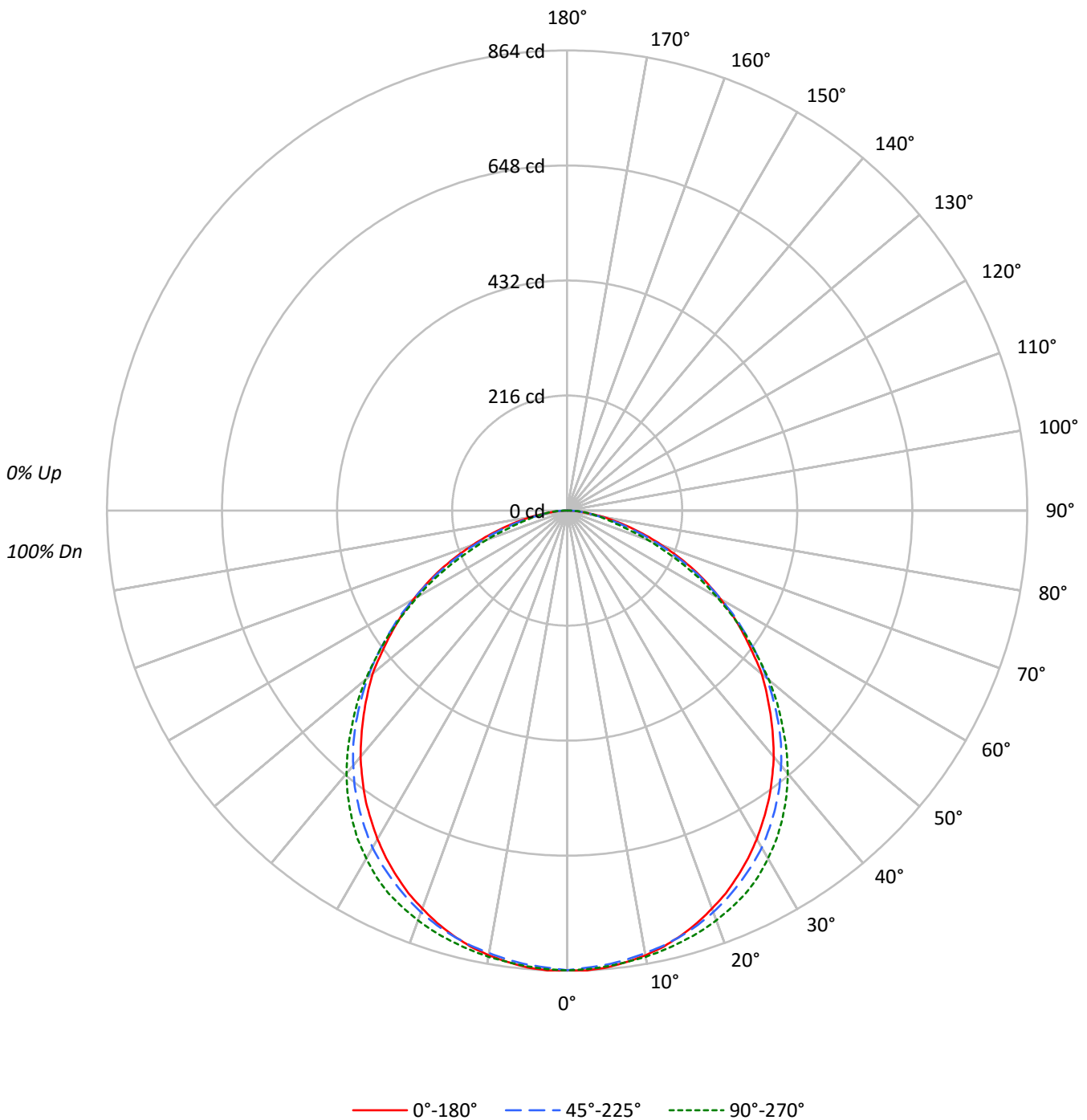
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 82 | 77 | | 83 | 79 | 75 | | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | | 74 | 69 | 64 | | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | | 59 | 53 | 48 | | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | | 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 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | | 45 | 38 | 34 | | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | | 41 | 35 | 30 | | 40 | 35 | 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° | 2323 | 2323 | 2323 |
| 5° | 2326 | 2312 | 2320 |
| 10° | 2316 | 2305 | 2325 |
| 15° | 2301 | 2304 | 2333 |
| 20° | 2277 | 2298 | 2345 |
| 25° | 2249 | 2285 | 2355 |
| 30° | 2213 | 2270 | 2344 |
| 35° | 2171 | 2238 | 2316 |
| 40° | 2120 | 2196 | 2264 |
| 45° | 2054 | 2132 | 2175 |
| 50° | 1998 | 2049 | 2071 |
| 55° | 1897 | 1935 | 1926 |
| 60° | 1795 | 1795 | 1745 |
| 65° | 1666 | 1627 | 1536 |
| 70° | 1478 | 1413 | 1275 |
| 75° | 1280 | 1163 | 981 |
| 80° | 1049 | 907 | 891 |
| 85° | 698 | 824 | 886 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.6 | 3.6 |
| 10°-20° | 234.2 | 10.2 |
| 20°-30° | 356.0 | 15.5 |
| 30°-40° | 426.2 | 18.6 |
| 40°-50° | 429.9 | 18.7 |
| 50°-60° | 366.2 | 16.0 |
| 60°-70° | 250.4 | 10.9 |
| 70°-80° | 119.9 | 5.2 |
| 80°-90° | 30.4 | 1.3 |
| 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° | 671.8 | 29.3 |
| 0°-40° | 1098.1 | 47.8 |
| 0°-60° | 1894.2 | 82.5 |
| 0°-90° | 2294.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2294.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 863 | 863 | 863 | 863 | 863 | |
| 5° | 861 | 860 | 856 | 860 | 859 | 82 |
| 15° | 826 | 824 | 827 | 836 | 837 | 233 |
| 25° | 757 | 758 | 770 | 787 | 793 | 349 |
| 35° | 661 | 663 | 681 | 701 | 705 | 413 |
| 45° | 540 | 544 | 560 | 572 | 572 | 417 |
| 55° | 404 | 406 | 412 | 414 | 410 | 362 |
| 65° | 262 | 257 | 256 | 246 | 241 | 258 |
| 75° | 123 | 121 | 112 | 98 | 94 | 132 |
| 85° | 23 | 25 | 27 | 28 | 29 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 863.1 | 863.1 | 863.1 | 863.1 | 863.1 |
| 2.5° | 864.1 | 863.1 | 859.0 | 863.1 | 862.0 |
| 5° | 861.0 | 860.0 | 855.9 | 860.0 | 859.0 |
| 7.5° | 854.9 | 853.8 | 850.7 | 854.9 | 854.9 |
| 10° | 847.7 | 845.6 | 843.6 | 849.7 | 850.7 |
| 12.5° | 838.4 | 836.4 | 836.4 | 843.6 | 844.6 |
| 15° | 826.1 | 824.1 | 827.1 | 836.4 | 837.4 |
| 17.5° | 811.8 | 810.7 | 815.9 | 827.1 | 829.2 |
| 20° | 795.3 | 794.3 | 802.5 | 815.9 | 818.9 |
| 22.5° | 777.9 | 777.9 | 787.1 | 802.5 | 806.6 |
| 25° | 757.4 | 758.4 | 769.7 | 787.1 | 793.3 |
| 27.5° | 735.8 | 737.9 | 751.2 | 770.7 | 775.8 |
| 30° | 712.2 | 715.3 | 730.7 | 749.2 | 754.3 |
| 32.5° | 686.6 | 689.6 | 707.1 | 726.6 | 731.7 |
| 35° | 660.9 | 662.9 | 681.4 | 700.9 | 705.0 |
| 37.5° | 632.2 | 635.2 | 654.7 | 672.2 | 676.3 |
| 40° | 603.4 | 606.5 | 625.0 | 641.4 | 644.5 |
| 42.5° | 571.6 | 575.7 | 594.2 | 607.5 | 609.6 |
| 45° | 539.8 | 543.9 | 560.3 | 571.6 | 571.6 |
| 47.5° | 508.0 | 510.0 | 524.4 | 535.7 | 534.7 |
| 50° | 477.2 | 476.2 | 489.5 | 494.6 | 494.6 |
| 52.5° | 439.2 | 442.3 | 451.5 | 454.6 | 451.5 |
| 55° | 404.3 | 406.4 | 412.5 | 413.6 | 410.5 |
| 57.5° | 370.5 | 369.4 | 374.6 | 371.5 | 367.4 |
| 60° | 333.5 | 333.5 | 333.5 | 330.4 | 324.3 |
| 62.5° | 297.6 | 295.6 | 294.5 | 287.3 | 284.3 |
| 65° | 261.7 | 256.6 | 255.5 | 246.3 | 241.2 |
| 67.5° | 223.7 | 221.7 | 216.5 | 207.3 | 198.1 |
| 70° | 187.8 | 185.7 | 179.6 | 168.3 | 162.1 |
| 72.5° | 155.0 | 152.9 | 144.7 | 131.4 | 123.1 |
| 75° | 123.1 | 121.1 | 111.9 | 97.5 | 94.4 |
| 77.5° | 93.4 | 92.4 | 83.1 | 75.9 | 74.9 |
| 80° | 67.7 | 66.7 | 58.5 | 58.5 | 57.5 |
| 82.5° | 43.1 | 43.1 | 41.0 | 42.1 | 43.1 |
| 85° | 22.6 | 24.6 | 26.7 | 27.7 | 28.7 |
| 87.5° | 7.2 | 11.3 | 13.3 | 14.4 | 13.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)