

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: P257275

Luminaire Tested: **D3X-WD-20L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257275
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-20L940-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.3 lumens
Efficiency: N/A
Efficacy: 102.0 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

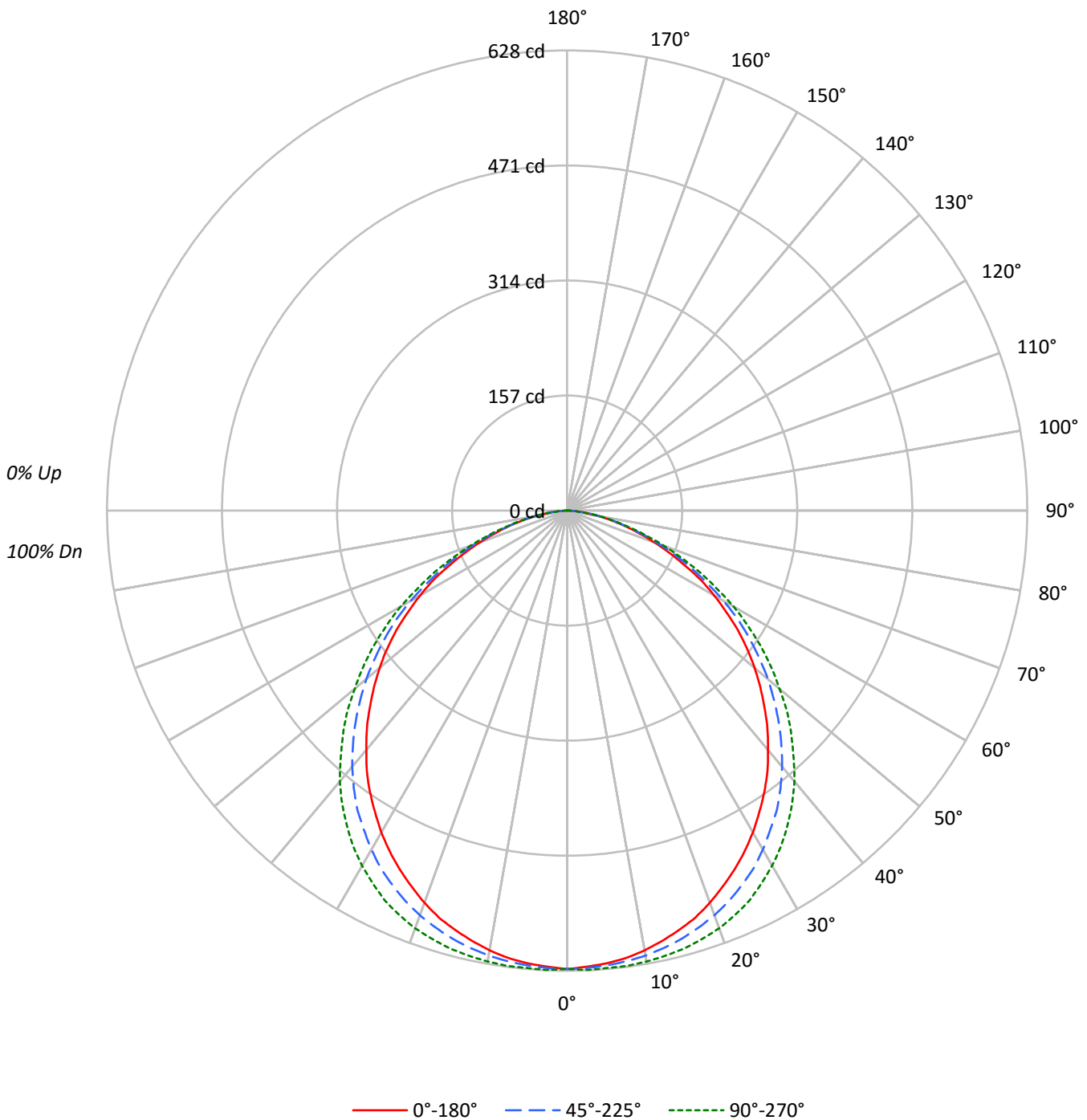
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 1684 | 1684 | 1684 |
| 5° | 1676 | 1683 | 1693 |
| 10° | 1665 | 1685 | 1707 |
| 15° | 1650 | 1685 | 1723 |
| 20° | 1631 | 1683 | 1737 |
| 25° | 1605 | 1675 | 1745 |
| 30° | 1576 | 1660 | 1739 |
| 35° | 1541 | 1639 | 1722 |
| 40° | 1498 | 1603 | 1695 |
| 45° | 1451 | 1554 | 1647 |
| 50° | 1399 | 1497 | 1585 |
| 55° | 1334 | 1423 | 1513 |
| 60° | 1248 | 1326 | 1413 |
| 65° | 1130 | 1200 | 1274 |
| 70° | 998 | 1047 | 1105 |
| 75° | 857 | 875 | 913 |
| 80° | 688 | 702 | 716 |
| 85° | 503 | 448 | 448 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.3 | 3.5 |
| 10°-20° | 170.8 | 10.2 |
| 20°-30° | 259.8 | 15.4 |
| 30°-40° | 310.8 | 18.5 |
| 40°-50° | 314.2 | 18.7 |
| 50°-60° | 270.4 | 16.1 |
| 60°-70° | 186.7 | 11.1 |
| 70°-80° | 90.5 | 5.4 |
| 80°-90° | 19.6 | 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° | 489.9 | 29.1 |
| 0°-40° | 800.8 | 47.6 |
| 0°-60° | 1385.4 | 82.4 |
| 0°-90° | 1682.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1682.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 626 | 626 | 626 | 626 | 626 | |
| 5° | 620 | 621 | 623 | 626 | 627 | 59 |
| 15° | 592 | 596 | 605 | 614 | 618 | 167 |
| 25° | 541 | 547 | 564 | 581 | 588 | 249 |
| 35° | 469 | 477 | 499 | 517 | 524 | 293 |
| 45° | 381 | 388 | 408 | 426 | 433 | 294 |
| 55° | 284 | 289 | 303 | 317 | 322 | 253 |
| 65° | 178 | 180 | 188 | 196 | 200 | 177 |
| 75° | 82 | 81 | 84 | 87 | 88 | 87 |
| 85° | 16 | 16 | 14 | 14 | 14 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 625.7 | 625.7 | 625.7 | 625.7 | 625.7 |
| 2.5° | 623.0 | 623.0 | 624.8 | 626.6 | 627.5 |
| 5° | 620.3 | 621.2 | 623.0 | 625.7 | 626.6 |
| 7.5° | 615.8 | 616.7 | 620.3 | 624.8 | 626.6 |
| 10° | 609.4 | 611.2 | 616.7 | 622.1 | 624.8 |
| 12.5° | 601.3 | 604.9 | 611.2 | 618.5 | 622.1 |
| 15° | 592.2 | 595.8 | 604.9 | 614.0 | 618.5 |
| 17.5° | 582.3 | 585.9 | 596.7 | 608.5 | 613.0 |
| 20° | 569.6 | 575.0 | 587.7 | 601.3 | 606.7 |
| 22.5° | 555.1 | 562.3 | 576.8 | 591.3 | 597.7 |
| 25° | 540.6 | 546.9 | 564.1 | 581.4 | 587.7 |
| 27.5° | 524.3 | 531.5 | 550.6 | 567.8 | 574.1 |
| 30° | 507.1 | 514.3 | 534.3 | 553.3 | 559.6 |
| 32.5° | 488.1 | 497.1 | 516.2 | 536.1 | 543.3 |
| 35° | 469.1 | 477.2 | 498.9 | 517.1 | 524.3 |
| 37.5° | 449.1 | 456.4 | 478.1 | 497.1 | 504.4 |
| 40° | 426.5 | 434.7 | 456.4 | 475.4 | 482.6 |
| 42.5° | 404.8 | 412.9 | 432.8 | 451.0 | 457.3 |
| 45° | 381.2 | 388.5 | 408.4 | 425.6 | 432.8 |
| 47.5° | 357.7 | 365.8 | 383.0 | 400.2 | 407.5 |
| 50° | 334.1 | 340.5 | 357.7 | 374.0 | 378.5 |
| 52.5° | 309.7 | 315.1 | 330.5 | 345.0 | 351.3 |
| 55° | 284.3 | 288.9 | 303.4 | 316.9 | 322.4 |
| 57.5° | 257.2 | 262.6 | 276.2 | 286.1 | 292.5 |
| 60° | 231.8 | 234.5 | 246.3 | 256.3 | 262.6 |
| 62.5° | 206.5 | 207.4 | 216.4 | 226.4 | 230.0 |
| 65° | 177.5 | 180.2 | 188.4 | 196.5 | 200.1 |
| 67.5° | 151.2 | 153.9 | 160.3 | 166.6 | 169.3 |
| 70° | 126.8 | 126.8 | 133.1 | 137.6 | 140.4 |
| 72.5° | 102.3 | 103.2 | 107.8 | 110.5 | 113.2 |
| 75° | 82.4 | 80.6 | 84.2 | 86.9 | 87.8 |
| 77.5° | 61.6 | 60.7 | 63.4 | 64.3 | 66.1 |
| 80° | 44.4 | 44.4 | 45.3 | 46.2 | 46.2 |
| 82.5° | 29.0 | 29.0 | 29.9 | 28.1 | 27.2 |
| 85° | 16.3 | 16.3 | 14.5 | 14.5 | 14.5 |
| 87.5° | 5.4 | 5.4 | 5.4 | 6.3 | 5.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)