

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: P559754

Luminaire Tested: **DL2-WB-M-100U-125D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

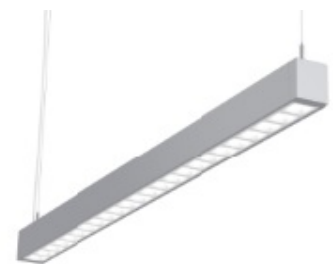
Test Information

Test Method: LM-79-08
Report Number: P559754
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-100U-125D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

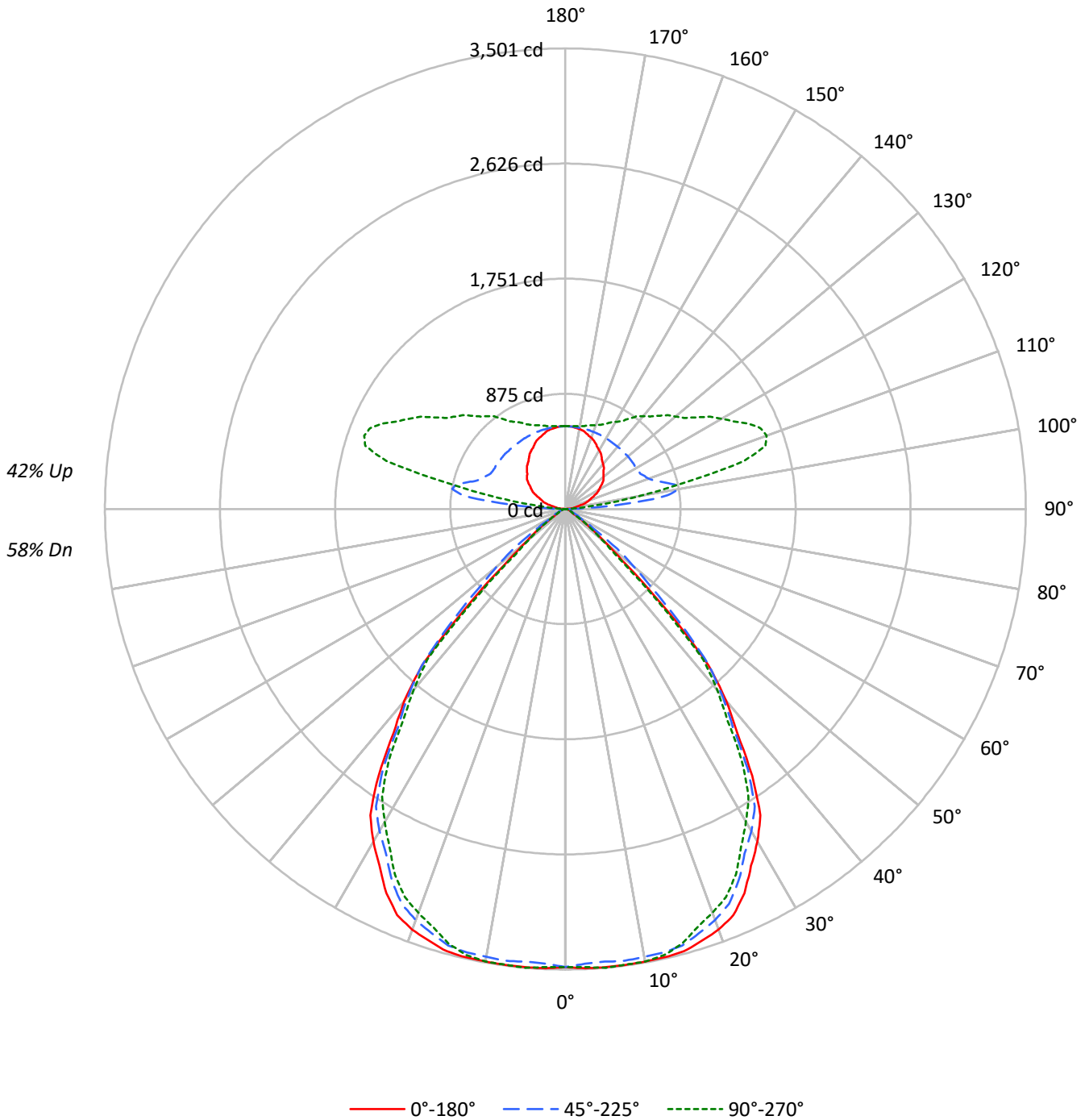
Lumens per Lamp: N/A
Luminaire Lumens: 9354.2 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.3
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P559754

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 | 58 | | |
| 1 | 102 | 98 | 95 | 92 | 95 | 92 | 89 | 87 | 80 | 78 | 76 | 69 | 68 | 67 | 59 | 59 | 58 | 53 | | |
| 2 | 94 | 88 | 83 | 79 | 88 | 83 | 79 | 75 | 73 | 70 | 67 | 64 | 61 | 59 | 55 | 54 | 52 | 48 | | |
| 3 | 88 | 80 | 74 | 69 | 82 | 75 | 70 | 65 | 66 | 62 | 59 | 58 | 55 | 53 | 51 | 49 | 47 | 44 | | |
| 4 | 81 | 72 | 65 | 60 | 76 | 68 | 62 | 58 | 61 | 56 | 52 | 54 | 50 | 47 | 47 | 45 | 43 | 39 | | |
| 5 | 76 | 66 | 58 | 53 | 71 | 62 | 56 | 51 | 55 | 51 | 47 | 49 | 46 | 43 | 44 | 41 | 39 | 36 | | |
| 6 | 70 | 60 | 53 | 48 | 66 | 57 | 50 | 46 | 51 | 46 | 42 | 45 | 42 | 39 | 40 | 37 | 35 | 33 | | |
| 7 | 66 | 55 | 48 | 43 | 62 | 52 | 46 | 41 | 47 | 42 | 38 | 42 | 38 | 35 | 38 | 34 | 32 | 30 | | |
| 8 | 61 | 50 | 43 | 39 | 58 | 48 | 42 | 37 | 43 | 38 | 35 | 39 | 35 | 32 | 35 | 32 | 29 | 27 | | |
| 9 | 58 | 46 | 40 | 35 | 54 | 44 | 38 | 34 | 40 | 35 | 32 | 36 | 32 | 29 | 33 | 29 | 27 | 25 | | |
| 10 | 54 | 43 | 36 | 32 | 51 | 41 | 35 | 31 | 37 | 32 | 29 | 34 | 30 | 27 | 30 | 27 | 25 | 23 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 56225 | 56225 | 56225 |
| 5° | 56666 | 55987 | 56747 |
| 10° | 57272 | 56667 | 57289 |
| 15° | 58191 | 57424 | 57190 |
| 20° | 58477 | 57156 | 56127 |
| 25° | 57377 | 55561 | 54619 |
| 30° | 54441 | 52709 | 51220 |
| 35° | 48817 | 47656 | 46180 |
| 40° | 40078 | 39192 | 37761 |
| 45° | 25060 | 28458 | 22735 |
| 50° | 9909 | 16832 | 8854 |
| 55° | 4808 | 7645 | 4752 |
| 60° | 2257 | 3739 | 2063 |
| 65° | 2021 | 2174 | 1945 |
| 70° | 1978 | 2025 | 1836 |
| 75° | 1934 | 1934 | 1747 |
| 80° | 1860 | 1860 | 1674 |
| 85° | 1667 | 1667 | 1667 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 332.7 | 3.6 |
| 10°-20° | 972.5 | 10.4 |
| 20°-30° | 1437.8 | 15.4 |
| 30°-40° | 1485.7 | 15.9 |
| 40°-50° | 893.9 | 9.6 |
| 50°-60° | 214.8 | 2.3 |
| 60°-70° | 58.7 | 0.6 |
| 70°-80° | 32.7 | 0.3 |
| 80°-90° | 11.4 | 0.1 |
| 90°-100° | 262.6 | 2.8 |
| 100°-110° | 794.4 | 8.5 |
| 110°-120° | 775.4 | 8.3 |
| 120°-130° | 633.7 | 6.8 |
| 130°-140° | 517.2 | 5.5 |
| 140°-150° | 402.6 | 4.3 |
| 150°-160° | 290.3 | 3.1 |
| 160°-170° | 177.7 | 1.9 |
| 170°-180° | 60.0 | 0.6 |
| 0°-30° | 2743.0 | 29.3 |
| 0°-40° | 4228.7 | 45.2 |
| 0°-60° | 5337.5 | 57.1 |
| 0°-90° | 5440.2 | 58.2 |
| 90°-120° | 1832.4 | 19.6 |
| 90°-150° | 3386.0 | 36.2 |
| 90°-180° | 3914.0 | 41.8 |
| 0°-180° | 9354.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3482 | 3482 | 3482 | 3482 | 3482 | |
| 5° | 3496 | 3486 | 3454 | 3503 | 3501 | 334 |
| 15° | 3481 | 3508 | 3435 | 3436 | 3421 | 981 |
| 25° | 3221 | 3245 | 3119 | 3075 | 3066 | 1472 |
| 35° | 2477 | 2471 | 2418 | 2371 | 2343 | 1524 |
| 45° | 1098 | 1246 | 1246 | 1178 | 996 | 850 |
| 55° | 171 | 192 | 272 | 183 | 169 | 174 |
| 65° | 53 | 56 | 57 | 53 | 51 | 54 |
| 75° | 31 | 33 | 31 | 30 | 28 | 32 |
| 85° | 9 | 10 | 9 | 9 | 9 | 10 |
| 90° | 0 | 2 | 12 | 7 | 6 | 2 |
| 95° | 33 | 103 | 496 | 183 | 116 | 39 |
| 105° | 138 | 194 | 780 | 1481 | 1408 | 145 |
| 115° | 246 | 293 | 631 | 1305 | 1533 | 243 |
| 125° | 344 | 381 | 622 | 1031 | 1213 | 305 |
| 135° | 412 | 455 | 618 | 889 | 1000 | 319 |
| 145° | 481 | 516 | 618 | 765 | 836 | 301 |
| 155° | 548 | 566 | 622 | 686 | 712 | 252 |
| 165° | 599 | 606 | 625 | 649 | 656 | 169 |
| 175° | 627 | 627 | 628 | 633 | 631 | 59 |
| 180° | 629 | 629 | 629 | 629 | 629 | |

TEST NUMBER: P559754

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3482.3 | 3482.3 | 3482.3 | 3482.3 | 3482.3 |
| 2.5° | 3495.1 | 3486.5 | 3459.2 | 3491.0 | 3485.5 |
| 5° | 3496.3 | 3485.6 | 3454.4 | 3503.3 | 3501.3 |
| 7.5° | 3495.7 | 3490.1 | 3463.6 | 3501.1 | 3493.5 |
| 10° | 3493.3 | 3496.2 | 3456.4 | 3497.2 | 3494.3 |
| 12.5° | 3491.7 | 3504.8 | 3452.4 | 3481.2 | 3473.5 |
| 15° | 3481.3 | 3507.7 | 3435.4 | 3436.1 | 3421.4 |
| 17.5° | 3443.4 | 3475.4 | 3381.7 | 3353.9 | 3335.3 |
| 20° | 3403.4 | 3434.7 | 3326.5 | 3285.2 | 3266.6 |
| 22.5° | 3341.1 | 3370.0 | 3249.8 | 3207.7 | 3192.3 |
| 25° | 3220.7 | 3245.1 | 3118.8 | 3074.7 | 3065.9 |
| 27.5° | 3058.3 | 3068.7 | 2952.6 | 2909.4 | 2894.3 |
| 30° | 2920.1 | 2921.1 | 2827.2 | 2775.6 | 2747.3 |
| 32.5° | 2759.5 | 2752.7 | 2680.2 | 2628.5 | 2593.1 |
| 35° | 2476.7 | 2470.8 | 2417.8 | 2371.2 | 2342.9 |
| 37.5° | 2144.3 | 2143.3 | 2092.8 | 2052.6 | 2024.1 |
| 40° | 1901.5 | 1908.3 | 1859.5 | 1809.2 | 1791.6 |
| 42.5° | 1610.6 | 1661.2 | 1619.8 | 1564.8 | 1553.5 |
| 45° | 1097.5 | 1246.0 | 1246.3 | 1178.3 | 995.7 |
| 47.5° | 627.8 | 787.9 | 897.0 | 694.4 | 515.5 |
| 50° | 394.5 | 515.6 | 670.1 | 422.8 | 352.5 |
| 52.5° | 280.2 | 339.6 | 495.9 | 297.4 | 263.0 |
| 55° | 170.8 | 192.3 | 271.6 | 183.4 | 168.8 |
| 57.5° | 103.5 | 123.6 | 157.4 | 123.0 | 103.9 |
| 60° | 69.9 | 88.5 | 115.8 | 81.5 | 63.9 |
| 62.5° | 61.9 | 68.8 | 91.1 | 64.2 | 57.5 |
| 65° | 52.9 | 55.9 | 56.9 | 52.9 | 50.9 |
| 67.5° | 46.7 | 48.7 | 47.7 | 46.7 | 43.7 |
| 70° | 41.9 | 43.9 | 42.9 | 41.9 | 38.9 |
| 72.5° | 37.2 | 39.1 | 38.1 | 37.1 | 35.0 |
| 75° | 31.0 | 32.9 | 31.0 | 29.9 | 28.0 |
| 77.5° | 24.0 | 25.7 | 24.8 | 23.9 | 22.0 |
| 80° | 20.0 | 20.9 | 20.0 | 19.9 | 18.0 |
| 82.5° | 16.0 | 16.2 | 15.2 | 15.2 | 14.0 |
| 85° | 9.0 | 10.0 | 9.0 | 9.0 | 9.0 |
| 87.5° | 3.2 | 3.6 | 5.6 | 4.6 | 3.6 |
| 90° | 0.0 | 1.9 | 11.8 | 6.9 | 5.9 |
| 92.5° | 11.1 | 44.7 | 160.3 | 53.2 | 38.3 |
| 95° | 32.6 | 103.0 | 495.6 | 183.1 | 115.5 |
| 97.5° | 63.0 | 131.1 | 781.1 | 516.9 | 314.7 |
| 100° | 81.9 | 148.5 | 872.7 | 843.7 | 566.7 |
| 102.5° | 103.3 | 167.6 | 853.8 | 1183.4 | 943.4 |
| 105° | 138.2 | 194.2 | 779.9 | 1481.2 | 1407.8 |
| 107.5° | 171.4 | 224.9 | 708.9 | 1510.7 | 1595.6 |
| 110° | 193.5 | 244.7 | 673.3 | 1473.5 | 1628.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 214.8 | 264.4 | 652.0 | 1411.3 | 1606.7 |
| 115° | 245.8 | 293.1 | 630.9 | 1305.4 | 1533.2 |
| 117.5° | 276.6 | 321.4 | 623.4 | 1206.2 | 1439.4 |
| 120° | 297.2 | 339.6 | 621.0 | 1148.3 | 1372.3 |
| 122.5° | 316.1 | 356.3 | 621.0 | 1097.4 | 1304.4 |
| 125° | 343.6 | 381.2 | 622.0 | 1030.9 | 1213.3 |
| 127.5° | 365.9 | 404.9 | 621.0 | 980.7 | 1136.3 |
| 130° | 380.1 | 420.6 | 621.0 | 952.0 | 1092.9 |
| 132.5° | 392.7 | 434.0 | 620.2 | 925.7 | 1055.8 |
| 135° | 411.7 | 455.1 | 618.0 | 889.1 | 1000.1 |
| 137.5° | 432.8 | 474.1 | 618.0 | 850.0 | 952.9 |
| 140° | 446.2 | 486.8 | 618.0 | 824.6 | 922.1 |
| 142.5° | 459.7 | 498.7 | 617.2 | 801.4 | 886.6 |
| 145° | 480.8 | 516.5 | 618.0 | 764.8 | 836.2 |
| 147.5° | 501.9 | 532.2 | 619.2 | 734.6 | 789.4 |
| 150° | 515.4 | 543.3 | 620.0 | 717.8 | 764.1 |
| 152.5° | 528.0 | 552.9 | 620.8 | 703.4 | 741.2 |
| 155° | 547.9 | 566.3 | 622.0 | 685.8 | 711.8 |
| 157.5° | 565.3 | 580.2 | 623.2 | 672.7 | 690.9 |
| 160° | 575.6 | 588.1 | 623.9 | 664.7 | 678.2 |
| 162.5° | 585.8 | 595.3 | 624.7 | 657.6 | 668.8 |
| 165° | 599.3 | 606.0 | 624.9 | 648.8 | 656.5 |
| 167.5° | 610.7 | 614.2 | 626.1 | 642.0 | 645.3 |
| 170° | 617.0 | 619.0 | 626.9 | 638.8 | 639.7 |
| 172.5° | 621.0 | 622.1 | 626.9 | 635.6 | 635.8 |
| 175° | 626.9 | 626.9 | 627.9 | 632.8 | 630.9 |
| 177.5° | 629.7 | 628.9 | 628.1 | 630.4 | 628.9 |
| 180° | 628.9 | 628.9 | 628.9 | 628.9 | 628.9 |

(END OF REPORT)