

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: P559747

Luminaire Tested: **DL2-WB-M-100U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

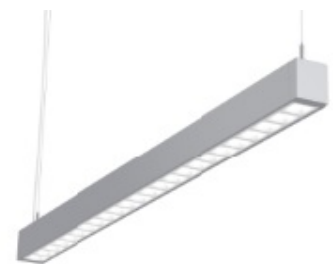
Test Information

Test Method: LM-79-08
Report Number: P559747
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-100U-075D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.8 lumens
Efficiency: N/A
Efficacy: 115.2 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

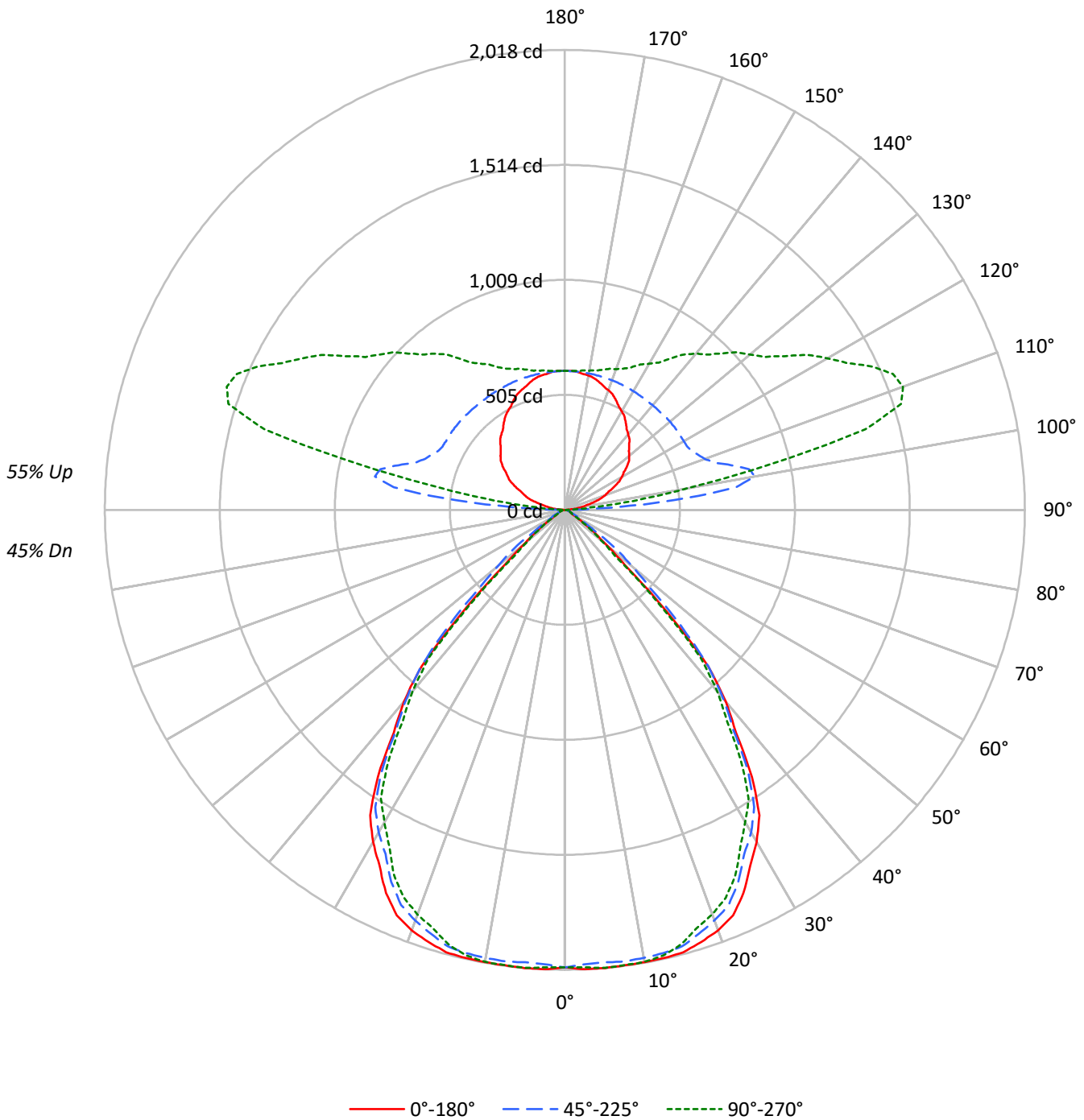
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 45 |
| 1 | 98 | 95 | 91 | 88 | 90 | 87 | 84 | 82 | 73 | 71 | 69 | 60 | 59 | 58 | 48 | 48 | 47 | 41 |
| 2 | 91 | 85 | 79 | 75 | 83 | 78 | 74 | 70 | 66 | 63 | 60 | 55 | 53 | 51 | 45 | 43 | 42 | 37 |
| 3 | 84 | 76 | 70 | 65 | 77 | 70 | 65 | 61 | 60 | 56 | 53 | 50 | 48 | 45 | 41 | 39 | 38 | 34 |
| 4 | 78 | 68 | 62 | 56 | 72 | 64 | 58 | 53 | 54 | 50 | 47 | 46 | 43 | 40 | 38 | 36 | 34 | 31 |
| 5 | 72 | 62 | 55 | 50 | 66 | 58 | 51 | 47 | 50 | 45 | 41 | 42 | 39 | 36 | 35 | 33 | 31 | 28 |
| 6 | 67 | 56 | 49 | 44 | 62 | 53 | 46 | 42 | 45 | 41 | 37 | 39 | 35 | 33 | 33 | 30 | 28 | 25 |
| 7 | 62 | 51 | 44 | 39 | 58 | 48 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 30 | 30 | 28 | 26 | 23 |
| 8 | 58 | 47 | 40 | 35 | 54 | 44 | 38 | 33 | 38 | 34 | 30 | 33 | 29 | 27 | 28 | 26 | 24 | 21 |
| 9 | 54 | 43 | 36 | 32 | 50 | 41 | 34 | 30 | 35 | 31 | 27 | 31 | 27 | 25 | 26 | 24 | 22 | 20 |
| 10 | 51 | 40 | 33 | 29 | 47 | 37 | 32 | 28 | 33 | 28 | 25 | 29 | 25 | 22 | 24 | 22 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 32411 | 32411 | 32411 |
| 5° | 32707 | 32302 | 32692 |
| 10° | 33037 | 32723 | 33023 |
| 15° | 33588 | 33153 | 32991 |
| 20° | 33747 | 32953 | 32459 |
| 25° | 33054 | 32076 | 31545 |
| 30° | 31362 | 30464 | 29496 |
| 35° | 28206 | 27618 | 26613 |
| 40° | 23123 | 22778 | 21905 |
| 45° | 14458 | 16459 | 13579 |
| 50° | 5657 | 9595 | 5172 |
| 55° | 2790 | 4470 | 2764 |
| 60° | 1305 | 2144 | 1182 |
| 65° | 1177 | 1249 | 1104 |
| 70° | 1138 | 1180 | 1090 |
| 75° | 1142 | 1142 | 1023 |
| 80° | 1069 | 1069 | 986 |
| 85° | 1074 | 889 | 889 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.9 | 2.8 |
| 10°-20° | 561.2 | 8.1 |
| 20°-30° | 829.8 | 12.0 |
| 30°-40° | 858.6 | 12.4 |
| 40°-50° | 516.4 | 7.4 |
| 50°-60° | 123.6 | 1.8 |
| 60°-70° | 33.8 | 0.5 |
| 70°-80° | 18.9 | 0.3 |
| 80°-90° | 7.0 | 0.1 |
| 90°-100° | 254.6 | 3.7 |
| 100°-110° | 770.1 | 11.1 |
| 110°-120° | 751.8 | 10.8 |
| 120°-130° | 614.3 | 8.9 |
| 130°-140° | 501.5 | 7.2 |
| 140°-150° | 390.4 | 5.6 |
| 150°-160° | 281.4 | 4.1 |
| 160°-170° | 172.3 | 2.5 |
| 170°-180° | 58.2 | 0.8 |
| 0°-30° | 1582.9 | 22.8 |
| 0°-40° | 2441.5 | 35.2 |
| 0°-60° | 3081.5 | 44.4 |
| 0°-90° | 3141.2 | 45.3 |
| 90°-120° | 1776.6 | 25.6 |
| 90°-150° | 3282.7 | 47.3 |
| 90°-180° | 3795.0 | 54.7 |
| 0°-180° | 6935.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2007 | 2007 | 2007 | 2007 | 2007 | |
| 5° | 2018 | 2011 | 1993 | 2020 | 2017 | 192 |
| 15° | 2009 | 2024 | 1983 | 1983 | 1974 | 566 |
| 25° | 1855 | 1870 | 1800 | 1781 | 1771 | 848 |
| 35° | 1431 | 1429 | 1401 | 1369 | 1350 | 878 |
| 45° | 633 | 719 | 721 | 685 | 595 | 490 |
| 55° | 99 | 111 | 159 | 106 | 98 | 99 |
| 65° | 31 | 32 | 33 | 31 | 29 | 31 |
| 75° | 18 | 18 | 18 | 17 | 16 | 19 |
| 85° | 6 | 6 | 5 | 5 | 5 | 6 |
| 90° | 0 | 2 | 12 | 7 | 6 | 2 |
| 95° | 32 | 100 | 480 | 178 | 112 | 37 |
| 105° | 134 | 188 | 756 | 1436 | 1365 | 141 |
| 115° | 238 | 284 | 612 | 1266 | 1486 | 236 |
| 125° | 333 | 370 | 603 | 1000 | 1176 | 296 |
| 135° | 399 | 441 | 599 | 862 | 970 | 309 |
| 145° | 466 | 501 | 599 | 742 | 811 | 292 |
| 155° | 531 | 549 | 603 | 665 | 690 | 244 |
| 165° | 581 | 588 | 606 | 629 | 636 | 164 |
| 175° | 608 | 608 | 609 | 614 | 612 | 58 |
| 180° | 610 | 610 | 610 | 610 | 610 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2007.4 | 2007.4 | 2007.4 | 2007.4 | 2007.4 |
| 2.5° | 2017.4 | 2012.2 | 1995.9 | 2012.7 | 2009.0 |
| 5° | 2018.0 | 2011.4 | 1993.0 | 2019.9 | 2017.1 |
| 7.5° | 2015.9 | 2013.1 | 1999.0 | 2019.3 | 2014.9 |
| 10° | 2015.1 | 2016.1 | 1995.9 | 2017.0 | 2014.2 |
| 12.5° | 2014.4 | 2022.1 | 1992.8 | 2009.2 | 2002.6 |
| 15° | 2009.4 | 2024.4 | 1983.4 | 1983.2 | 1973.7 |
| 17.5° | 1988.0 | 2005.9 | 1951.0 | 1936.0 | 1924.5 |
| 20° | 1964.1 | 1982.0 | 1917.9 | 1893.8 | 1889.1 |
| 22.5° | 1926.4 | 1945.8 | 1877.1 | 1850.6 | 1842.9 |
| 25° | 1855.4 | 1870.4 | 1800.5 | 1781.0 | 1770.7 |
| 27.5° | 1760.7 | 1769.0 | 1703.3 | 1681.1 | 1666.8 |
| 30° | 1682.2 | 1685.9 | 1634.0 | 1604.7 | 1582.1 |
| 32.5° | 1589.0 | 1592.8 | 1547.0 | 1519.3 | 1501.2 |
| 35° | 1431.0 | 1429.1 | 1401.2 | 1369.0 | 1350.2 |
| 37.5° | 1233.3 | 1236.0 | 1213.9 | 1188.4 | 1169.4 |
| 40° | 1097.1 | 1098.9 | 1080.7 | 1044.0 | 1039.3 |
| 42.5° | 930.8 | 959.0 | 934.4 | 905.8 | 883.8 |
| 45° | 633.2 | 718.8 | 720.8 | 685.1 | 594.7 |
| 47.5° | 357.6 | 455.1 | 511.4 | 408.8 | 299.1 |
| 50° | 225.2 | 291.1 | 382.0 | 242.6 | 205.9 |
| 52.5° | 159.7 | 193.2 | 288.1 | 170.7 | 151.3 |
| 55° | 99.1 | 111.4 | 158.8 | 105.7 | 98.2 |
| 57.5° | 58.9 | 71.5 | 90.3 | 71.5 | 59.7 |
| 60° | 40.4 | 50.8 | 66.4 | 46.9 | 36.6 |
| 62.5° | 35.0 | 39.4 | 52.5 | 37.1 | 33.5 |
| 65° | 30.8 | 31.7 | 32.7 | 30.8 | 28.9 |
| 67.5° | 27.1 | 28.1 | 27.3 | 27.1 | 25.4 |
| 70° | 24.1 | 25.0 | 25.0 | 24.0 | 23.1 |
| 72.5° | 21.7 | 22.7 | 21.9 | 21.7 | 20.0 |
| 75° | 18.3 | 18.3 | 18.3 | 17.3 | 16.4 |
| 77.5° | 13.9 | 14.8 | 13.9 | 13.8 | 12.9 |
| 80° | 11.5 | 12.5 | 11.5 | 11.5 | 10.6 |
| 82.5° | 9.2 | 9.4 | 9.2 | 9.2 | 8.3 |
| 85° | 5.8 | 5.8 | 4.8 | 4.8 | 4.8 |
| 87.5° | 1.5 | 2.7 | 3.8 | 2.9 | 2.7 |
| 90° | 0.0 | 1.9 | 11.5 | 6.7 | 5.7 |
| 92.5° | 10.7 | 43.3 | 155.4 | 51.6 | 37.1 |
| 95° | 31.6 | 99.9 | 480.5 | 177.5 | 112.0 |
| 97.5° | 61.1 | 127.1 | 757.3 | 501.1 | 305.1 |
| 100° | 79.4 | 144.0 | 846.1 | 818.0 | 549.4 |
| 102.5° | 100.1 | 162.4 | 827.8 | 1147.3 | 914.7 |
| 105° | 134.0 | 188.3 | 756.2 | 1436.0 | 1364.9 |
| 107.5° | 166.2 | 218.0 | 687.2 | 1464.6 | 1547.0 |
| 110° | 187.6 | 237.2 | 652.8 | 1428.6 | 1578.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 208.3 | 256.4 | 632.1 | 1368.3 | 1557.7 |
| 115° | 238.3 | 284.2 | 611.6 | 1265.6 | 1486.5 |
| 117.5° | 268.2 | 311.6 | 604.4 | 1169.4 | 1395.5 |
| 120° | 288.1 | 329.3 | 602.1 | 1113.3 | 1330.5 |
| 122.5° | 306.5 | 345.4 | 602.1 | 1063.9 | 1264.6 |
| 125° | 333.1 | 369.6 | 603.0 | 999.5 | 1176.3 |
| 127.5° | 354.7 | 392.5 | 602.1 | 950.8 | 1101.7 |
| 130° | 368.5 | 407.8 | 602.1 | 922.9 | 1059.6 |
| 132.5° | 380.8 | 420.8 | 601.3 | 897.4 | 1023.6 |
| 135° | 399.1 | 441.3 | 599.2 | 862.0 | 969.6 |
| 137.5° | 419.6 | 459.7 | 599.2 | 824.1 | 923.8 |
| 140° | 432.6 | 471.9 | 599.2 | 799.5 | 894.0 |
| 142.5° | 445.7 | 483.5 | 598.4 | 777.0 | 859.5 |
| 145° | 466.1 | 500.8 | 599.2 | 741.5 | 810.7 |
| 147.5° | 486.6 | 516.0 | 600.3 | 712.2 | 765.3 |
| 150° | 499.6 | 526.8 | 601.1 | 695.9 | 740.8 |
| 152.5° | 511.9 | 536.0 | 601.9 | 681.9 | 718.6 |
| 155° | 531.2 | 549.0 | 603.0 | 664.8 | 690.1 |
| 157.5° | 548.1 | 562.5 | 604.2 | 652.2 | 669.8 |
| 160° | 558.0 | 570.2 | 604.9 | 644.5 | 657.6 |
| 162.5° | 568.0 | 577.1 | 605.7 | 637.5 | 648.4 |
| 165° | 581.0 | 587.5 | 605.9 | 629.0 | 636.5 |
| 167.5° | 592.1 | 595.5 | 607.0 | 622.4 | 625.6 |
| 170° | 598.2 | 600.1 | 607.8 | 619.3 | 620.2 |
| 172.5° | 602.1 | 603.2 | 607.8 | 616.2 | 616.4 |
| 175° | 607.8 | 607.8 | 608.8 | 613.5 | 611.6 |
| 177.5° | 610.5 | 609.7 | 608.9 | 611.2 | 609.7 |
| 180° | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 |

(END OF REPORT)