

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: P559641

Luminaire Tested: **DL2-BB-M-075U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559641
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-075U-075D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

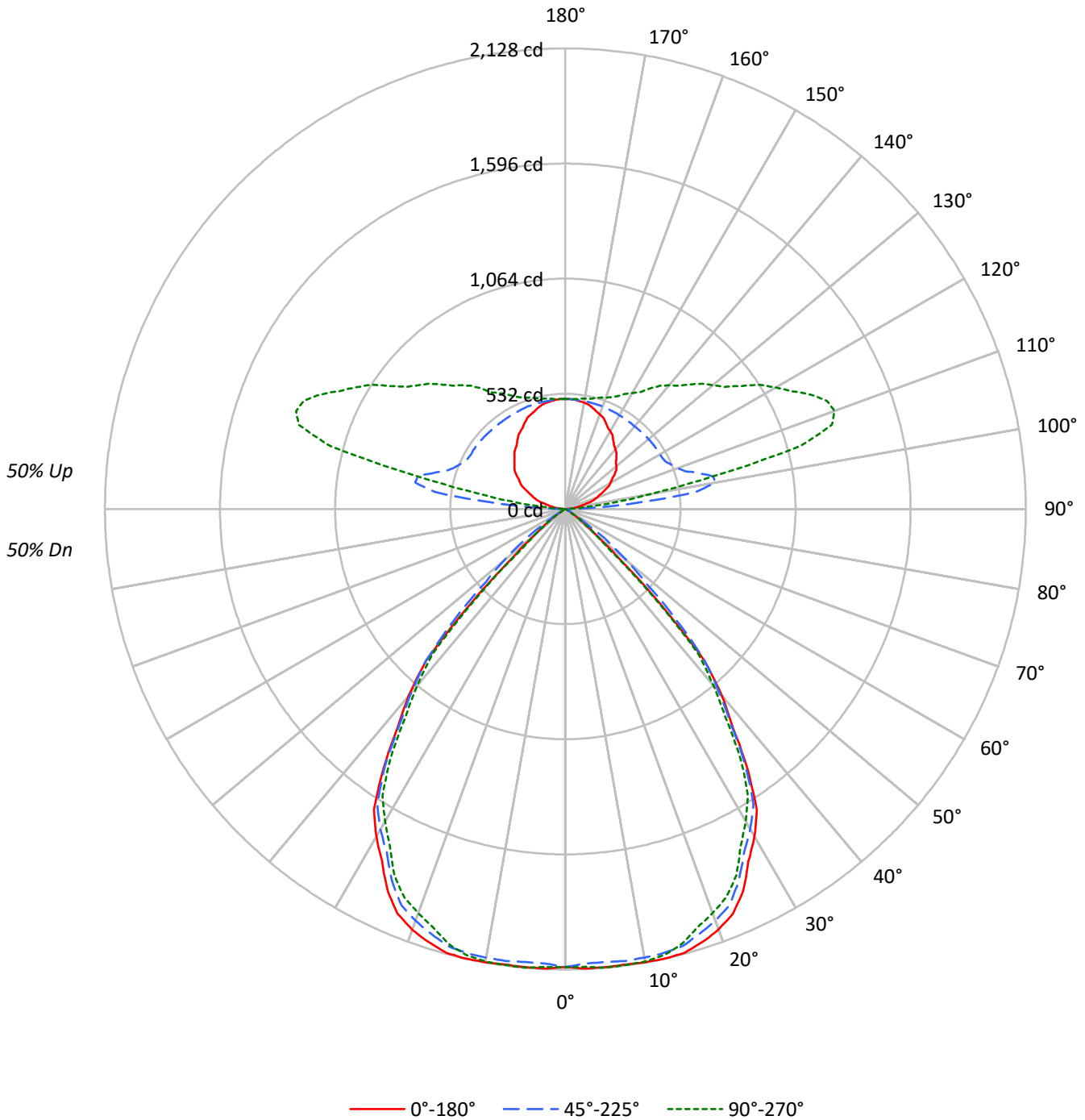
Lumens per Lamp: N/A
Luminaire Lumens: 6311.8 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 50.9
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P559641

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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | |
| 1 | 100 | 96 | 93 | 90 | 92 | 89 | 87 | 84 | 76 | 74 | 72 | 64 | 63 | 62 | 53 | 52 | 51 | 46 | | |
| 2 | 93 | 86 | 81 | 77 | 86 | 80 | 76 | 72 | 69 | 66 | 63 | 59 | 57 | 55 | 49 | 48 | 47 | 42 | | |
| 3 | 86 | 78 | 72 | 67 | 79 | 73 | 67 | 63 | 63 | 59 | 56 | 54 | 51 | 49 | 45 | 44 | 42 | 38 | | |
| 4 | 80 | 71 | 64 | 59 | 74 | 66 | 60 | 56 | 57 | 53 | 50 | 49 | 46 | 44 | 42 | 40 | 38 | 35 | | |
| 5 | 74 | 64 | 57 | 52 | 69 | 60 | 54 | 49 | 53 | 48 | 44 | 46 | 42 | 40 | 39 | 37 | 35 | 32 | | |
| 6 | 69 | 58 | 51 | 46 | 64 | 55 | 49 | 44 | 48 | 43 | 40 | 42 | 38 | 36 | 36 | 34 | 32 | 29 | | |
| 7 | 64 | 53 | 46 | 41 | 60 | 50 | 44 | 40 | 44 | 40 | 36 | 39 | 35 | 32 | 34 | 31 | 29 | 27 | | |
| 8 | 60 | 49 | 42 | 37 | 56 | 46 | 40 | 36 | 41 | 36 | 33 | 36 | 32 | 30 | 31 | 29 | 27 | 24 | | |
| 9 | 56 | 45 | 38 | 34 | 52 | 43 | 37 | 32 | 38 | 33 | 30 | 33 | 30 | 27 | 29 | 27 | 25 | 23 | | |
| 10 | 53 | 42 | 35 | 31 | 49 | 39 | 34 | 30 | 35 | 30 | 27 | 31 | 28 | 25 | 27 | 25 | 23 | 21 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 34165 | 34165 | 34165 |
| 5° | 34431 | 34054 | 34483 |
| 10° | 34864 | 34500 | 34813 |
| 15° | 35493 | 34962 | 34785 |
| 20° | 35538 | 34792 | 34156 |
| 25° | 34659 | 33774 | 33302 |
| 30° | 32582 | 31871 | 31062 |
| 35° | 28917 | 28687 | 27831 |
| 40° | 23716 | 23313 | 22445 |
| 45° | 14139 | 16630 | 13269 |
| 50° | 4413 | 9226 | 4175 |
| 55° | 1669 | 3277 | 1669 |
| 60° | 103 | 924 | 36 |
| 65° | 0 | 42 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.3 | 3.2 |
| 10°-20° | 592.6 | 9.4 |
| 20°-30° | 871.8 | 13.8 |
| 30°-40° | 891.1 | 14.1 |
| 40°-50° | 513.4 | 8.1 |
| 50°-60° | 88.5 | 1.4 |
| 60°-70° | 3.2 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.6 | 0.0 |
| 90°-100° | 192.3 | 3.0 |
| 100°-110° | 637.5 | 10.1 |
| 110°-120° | 632.7 | 10.0 |
| 120°-130° | 515.4 | 8.2 |
| 130°-140° | 418.8 | 6.6 |
| 140°-150° | 325.3 | 5.2 |
| 150°-160° | 234.4 | 3.7 |
| 160°-170° | 143.5 | 2.3 |
| 170°-180° | 48.5 | 0.8 |
| 0°-30° | 1666.8 | 26.4 |
| 0°-40° | 2557.9 | 40.5 |
| 0°-60° | 3159.7 | 50.1 |
| 0°-90° | 3163.6 | 50.1 |
| 90°-120° | 1462.5 | 23.2 |
| 90°-150° | 2722.0 | 43.1 |
| 90°-180° | 3148.0 | 49.9 |
| 0°-180° | 6311.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2116 | 2116 | 2116 | 2116 | 2116 | |
| 5° | 2124 | 2119 | 2101 | 2130 | 2128 | 203 |
| 15° | 2123 | 2141 | 2092 | 2094 | 2081 | 598 |
| 25° | 1946 | 1963 | 1896 | 1877 | 1869 | 888 |
| 35° | 1467 | 1478 | 1455 | 1428 | 1412 | 906 |
| 45° | 619 | 711 | 728 | 688 | 581 | 479 |
| 55° | 59 | 68 | 116 | 66 | 59 | 63 |
| 65° | 0 | 0 | 1 | 0 | 0 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 1 | 3 | 4 | 4 | 1 |
| 95° | 27 | 81 | 348 | 124 | 83 | 31 |
| 105° | 112 | 159 | 638 | 1204 | 1126 | 118 |
| 115° | 199 | 238 | 514 | 1070 | 1251 | 197 |
| 125° | 278 | 309 | 504 | 840 | 991 | 247 |
| 135° | 333 | 367 | 500 | 721 | 814 | 257 |
| 145° | 386 | 415 | 499 | 620 | 679 | 242 |
| 155° | 441 | 457 | 502 | 554 | 575 | 203 |
| 165° | 484 | 489 | 504 | 524 | 530 | 137 |
| 175° | 506 | 506 | 508 | 511 | 510 | 48 |
| 180° | 508 | 508 | 508 | 508 | 508 | |



TEST NUMBER: P559641

CATALOG NUMBER: DL2-BB-M-075U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2116.0 | 2116.0 | 2116.0 | 2116.0 | 2116.0 |
| 2.5° | 2125.3 | 2119.5 | 2102.4 | 2121.8 | 2117.6 |
| 5° | 2124.4 | 2119.2 | 2101.1 | 2129.7 | 2127.6 |
| 7.5° | 2123.2 | 2119.6 | 2106.9 | 2130.2 | 2125.1 |
| 10° | 2126.5 | 2125.5 | 2104.3 | 2128.5 | 2123.4 |
| 12.5° | 2128.2 | 2134.6 | 2101.8 | 2120.8 | 2111.5 |
| 15° | 2123.4 | 2141.0 | 2091.6 | 2094.5 | 2081.0 |
| 17.5° | 2099.7 | 2124.5 | 2058.8 | 2046.7 | 2027.7 |
| 20° | 2068.3 | 2097.3 | 2024.9 | 2004.4 | 1987.9 |
| 22.5° | 2024.3 | 2050.8 | 1981.7 | 1956.2 | 1943.0 |
| 25° | 1945.5 | 1963.1 | 1895.8 | 1876.6 | 1869.3 |
| 27.5° | 1834.0 | 1838.9 | 1788.2 | 1764.3 | 1755.0 |
| 30° | 1747.6 | 1747.6 | 1709.5 | 1683.7 | 1666.1 |
| 32.5° | 1646.8 | 1644.3 | 1617.2 | 1588.8 | 1571.2 |
| 35° | 1467.1 | 1478.5 | 1455.4 | 1427.6 | 1412.0 |
| 37.5° | 1272.5 | 1276.9 | 1259.4 | 1229.5 | 1216.4 |
| 40° | 1125.2 | 1126.2 | 1106.1 | 1084.5 | 1064.9 |
| 42.5° | 953.3 | 974.2 | 955.4 | 921.4 | 913.3 |
| 45° | 619.2 | 711.3 | 728.3 | 687.7 | 581.1 |
| 47.5° | 311.2 | 425.9 | 497.7 | 386.5 | 273.7 |
| 50° | 175.7 | 244.0 | 367.3 | 204.5 | 166.2 |
| 52.5° | 117.3 | 147.5 | 254.7 | 133.7 | 112.0 |
| 55° | 59.3 | 67.6 | 116.4 | 65.5 | 59.3 |
| 57.5° | 20.1 | 31.3 | 50.6 | 32.4 | 22.2 |
| 60° | 3.2 | 13.5 | 28.6 | 10.4 | 1.1 |
| 62.5° | 0.6 | 3.5 | 17.6 | 2.9 | 0.2 |
| 65° | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.2 | 0.6 | 0.8 | 0.8 |
| 90° | 0.0 | 1.0 | 3.2 | 4.2 | 4.2 |
| 92.5° | 8.4 | 32.5 | 95.8 | 31.1 | 26.1 |
| 95° | 27.4 | 80.9 | 348.5 | 124.3 | 83.2 |
| 97.5° | 50.3 | 106.3 | 608.3 | 354.8 | 224.2 |
| 100° | 66.3 | 119.9 | 704.3 | 604.9 | 401.1 |
| 102.5° | 84.0 | 135.9 | 698.4 | 924.5 | 698.4 |
| 105° | 111.6 | 159.0 | 638.0 | 1203.7 | 1125.5 |
| 107.5° | 139.8 | 182.0 | 580.1 | 1232.1 | 1291.6 |
| 110° | 155.8 | 198.0 | 550.6 | 1204.0 | 1324.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 172.7 | 214.0 | 532.9 | 1154.2 | 1307.6 |
| 115° | 199.0 | 238.1 | 513.8 | 1069.6 | 1250.7 |
| 117.5° | 225.1 | 259.9 | 506.8 | 988.7 | 1178.7 |
| 120° | 241.1 | 275.1 | 504.3 | 938.0 | 1122.3 |
| 122.5° | 255.4 | 288.6 | 504.3 | 896.4 | 1066.7 |
| 125° | 277.9 | 308.8 | 504.3 | 840.4 | 990.7 |
| 127.5° | 296.5 | 326.7 | 503.0 | 798.0 | 926.5 |
| 130° | 307.4 | 339.3 | 502.2 | 773.3 | 888.6 |
| 132.5° | 317.5 | 350.3 | 501.3 | 752.8 | 856.6 |
| 135° | 332.7 | 366.7 | 500.1 | 721.2 | 813.8 |
| 137.5° | 349.1 | 381.8 | 498.8 | 690.6 | 772.3 |
| 140° | 360.1 | 392.0 | 498.0 | 670.2 | 745.4 |
| 142.5° | 370.2 | 401.3 | 498.8 | 649.8 | 716.8 |
| 145° | 386.4 | 415.2 | 499.0 | 620.4 | 679.1 |
| 147.5° | 403.9 | 427.9 | 499.2 | 595.4 | 639.1 |
| 150° | 414.8 | 436.4 | 500.1 | 580.9 | 618.0 |
| 152.5° | 424.9 | 445.7 | 500.9 | 569.0 | 598.6 |
| 155° | 441.1 | 456.6 | 502.2 | 554.2 | 574.8 |
| 157.5° | 456.9 | 468.9 | 503.5 | 543.8 | 558.4 |
| 160° | 465.3 | 475.6 | 504.3 | 536.1 | 547.5 |
| 162.5° | 473.8 | 481.6 | 504.3 | 531.0 | 539.9 |
| 165° | 484.3 | 489.4 | 504.3 | 524.4 | 529.6 |
| 167.5° | 494.0 | 496.7 | 505.4 | 518.5 | 521.1 |
| 170° | 499.0 | 500.1 | 505.4 | 515.9 | 516.9 |
| 172.5° | 502.4 | 503.4 | 506.2 | 513.4 | 513.6 |
| 175° | 506.4 | 506.4 | 507.5 | 510.6 | 509.6 |
| 177.5° | 508.5 | 508.5 | 507.7 | 509.3 | 507.7 |
| 180° | 508.5 | 508.5 | 508.5 | 508.5 | 508.5 |

(END OF REPORT)