

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: P559612

Luminaire Tested: **DL2-BB-M-025U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

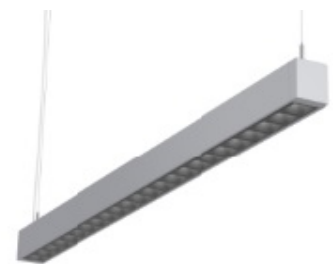
Test Information

Test Method: LM-79-08
Report Number: P559612
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-025U-050D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

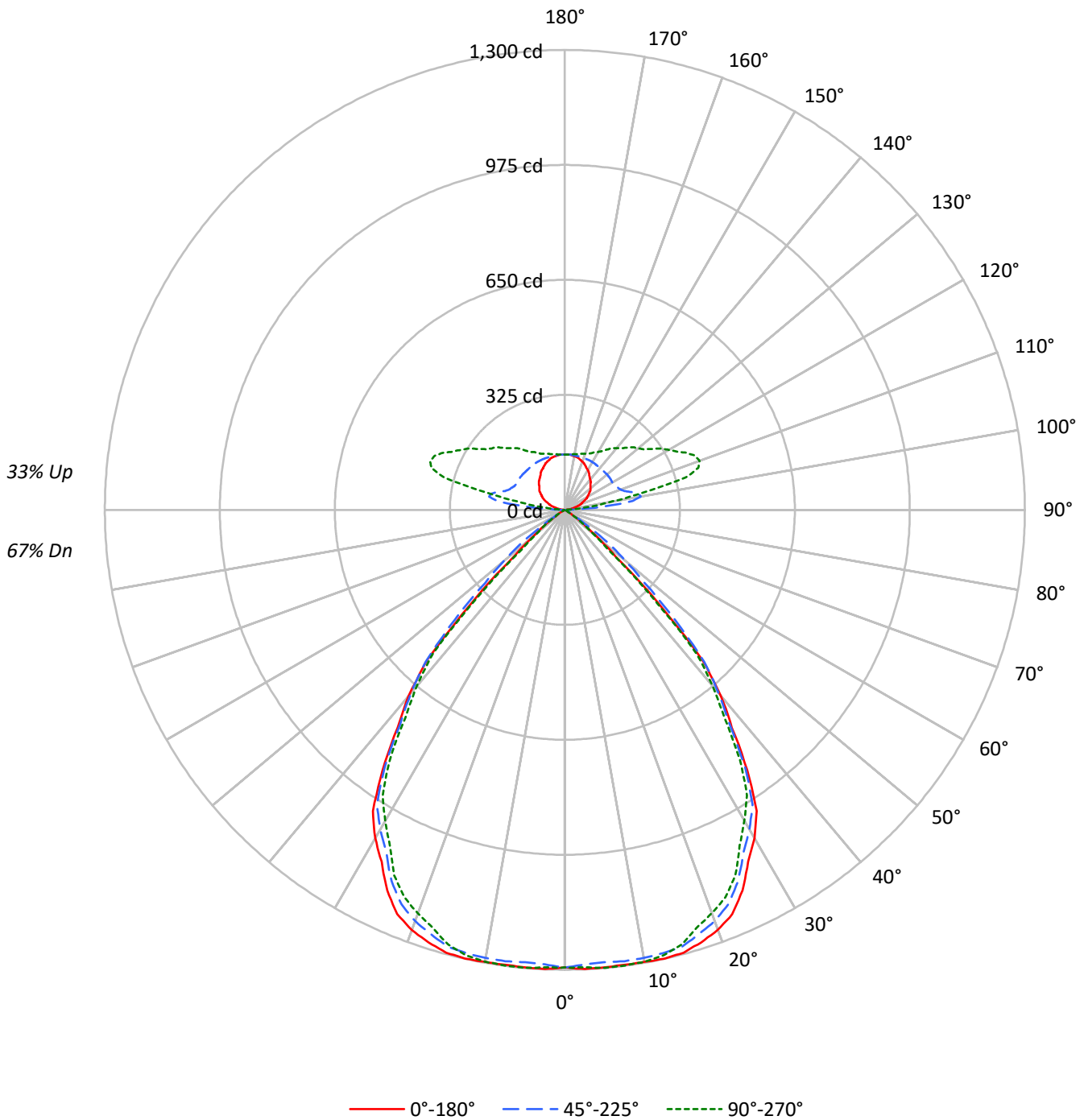
Lumens per Lamp: N/A
Luminaire Lumens: 2904.7 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 25.5
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: 24 FT



TEST NUMBER: P559612
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Luminous Intensity Polar Plot





TEST NUMBER: P559612

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 81 | 81 | 81 | 71 | 71 | 71 | 67 | 67 | 67 | 67 | |
| 1 | 104 | 101 | 98 | 95 | 98 | 95 | 93 | 90 | 85 | 83 | 81 | 76 | 74 | 73 | 67 | 66 | 65 | 61 | 61 | 61 | 61 | |
| 2 | 97 | 91 | 86 | 82 | 92 | 87 | 82 | 79 | 78 | 75 | 72 | 70 | 68 | 66 | 62 | 61 | 59 | 56 | 56 | 56 | 56 | |
| 3 | 91 | 83 | 77 | 72 | 86 | 79 | 74 | 69 | 71 | 67 | 64 | 64 | 61 | 59 | 58 | 56 | 54 | 51 | 51 | 51 | 51 | |
| 4 | 84 | 75 | 69 | 64 | 80 | 72 | 66 | 62 | 65 | 61 | 57 | 59 | 56 | 53 | 54 | 51 | 49 | 46 | 46 | 46 | 46 | |
| 5 | 79 | 69 | 62 | 57 | 75 | 66 | 60 | 55 | 60 | 55 | 52 | 55 | 51 | 48 | 50 | 47 | 45 | 42 | 42 | 42 | 42 | |
| 6 | 73 | 63 | 56 | 51 | 70 | 60 | 54 | 50 | 55 | 50 | 47 | 51 | 47 | 44 | 46 | 43 | 41 | 39 | 39 | 39 | 39 | |
| 7 | 69 | 58 | 51 | 46 | 65 | 56 | 49 | 45 | 51 | 46 | 42 | 47 | 43 | 40 | 43 | 40 | 37 | 35 | 35 | 35 | 35 | |
| 8 | 64 | 53 | 47 | 42 | 61 | 51 | 45 | 41 | 47 | 42 | 39 | 44 | 40 | 36 | 40 | 37 | 34 | 32 | 32 | 32 | 32 | |
| 9 | 60 | 49 | 43 | 38 | 57 | 48 | 41 | 37 | 44 | 39 | 35 | 41 | 37 | 34 | 38 | 34 | 32 | 30 | 30 | 30 | 30 | |
| 10 | 57 | 46 | 39 | 35 | 54 | 44 | 38 | 34 | 41 | 36 | 33 | 38 | 34 | 31 | 35 | 32 | 29 | 28 | 28 | 28 | 28 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20889 | 20889 | 20889 |
| 5° | 21032 | 20799 | 21063 |
| 10° | 21276 | 21086 | 21259 |
| 15° | 21660 | 21369 | 21274 |
| 20° | 21718 | 21256 | 20859 |
| 25° | 21148 | 20633 | 20307 |
| 30° | 19978 | 19442 | 18921 |
| 35° | 17710 | 17501 | 17008 |
| 40° | 14457 | 14254 | 13685 |
| 45° | 8522 | 10061 | 7930 |
| 50° | 2876 | 5606 | 2562 |
| 55° | 974 | 2004 | 1030 |
| 60° | 94 | 591 | 32 |
| 65° | 0 | 38 | 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° | 123.6 | 4.3 |
| 10°-20° | 361.9 | 12.5 |
| 20°-30° | 532.5 | 18.3 |
| 30°-40° | 544.1 | 18.7 |
| 40°-50° | 312.8 | 10.8 |
| 50°-60° | 54.7 | 1.9 |
| 60°-70° | 2.0 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.5 | 0.0 |
| 90°-100° | 63.4 | 2.2 |
| 100°-110° | 197.3 | 6.8 |
| 110°-120° | 193.0 | 6.6 |
| 120°-130° | 157.6 | 5.4 |
| 130°-140° | 128.9 | 4.4 |
| 140°-150° | 100.6 | 3.5 |
| 150°-160° | 72.6 | 2.5 |
| 160°-170° | 44.4 | 1.5 |
| 170°-180° | 15.0 | 0.5 |
| 0°-30° | 1018.0 | 35.0 |
| 0°-40° | 1562.1 | 53.8 |
| 0°-60° | 1929.6 | 66.4 |
| 0°-90° | 1932.1 | 66.5 |
| 90°-120° | 453.7 | 15.6 |
| 90°-150° | 840.8 | 28.9 |
| 90°-180° | 973.0 | 33.5 |
| 0°-180° | 2904.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1294 | 1294 | 1294 | 1294 | 1294 | |
| 5° | 1298 | 1295 | 1283 | 1302 | 1300 | 124 |
| 15° | 1296 | 1307 | 1278 | 1279 | 1273 | 365 |
| 25° | 1187 | 1197 | 1158 | 1146 | 1140 | 543 |
| 35° | 898 | 903 | 888 | 873 | 863 | 554 |
| 45° | 373 | 434 | 441 | 418 | 347 | 292 |
| 55° | 35 | 41 | 71 | 40 | 37 | 39 |
| 65° | 0 | 0 | 1 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 1 | 3 | 3 | 3 | 0 |
| 95° | 9 | 26 | 116 | 43 | 28 | 10 |
| 105° | 35 | 49 | 194 | 371 | 354 | 37 |
| 115° | 62 | 73 | 158 | 325 | 381 | 61 |
| 125° | 86 | 95 | 156 | 256 | 300 | 76 |
| 135° | 103 | 114 | 155 | 221 | 248 | 80 |
| 145° | 120 | 130 | 155 | 191 | 208 | 75 |
| 155° | 138 | 142 | 156 | 171 | 177 | 63 |
| 165° | 151 | 152 | 157 | 162 | 164 | 42 |
| 175° | 157 | 157 | 157 | 158 | 157 | 15 |
| 180° | 157 | 157 | 157 | 157 | 157 | |



TEST NUMBER: P559612

CATALOG NUMBER: DL2-BB-M-025U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1293.8 | 1293.8 | 1293.8 | 1293.8 | 1293.8 |
| 2.5° | 1299.2 | 1296.2 | 1286.1 | 1297.6 | 1294.6 |
| 5° | 1297.7 | 1294.9 | 1283.3 | 1301.5 | 1299.6 |
| 7.5° | 1296.9 | 1294.7 | 1286.9 | 1302.8 | 1299.0 |
| 10° | 1297.7 | 1297.7 | 1286.1 | 1300.5 | 1296.7 |
| 12.5° | 1299.2 | 1303.0 | 1283.8 | 1295.1 | 1289.8 |
| 15° | 1295.8 | 1307.0 | 1278.4 | 1279.3 | 1272.7 |
| 17.5° | 1281.7 | 1296.9 | 1257.9 | 1248.6 | 1238.6 |
| 20° | 1264.0 | 1280.0 | 1237.1 | 1222.5 | 1214.0 |
| 22.5° | 1237.1 | 1252.3 | 1207.1 | 1194.7 | 1185.5 |
| 25° | 1187.1 | 1197.4 | 1158.2 | 1145.6 | 1139.9 |
| 27.5° | 1121.6 | 1126.9 | 1092.8 | 1079.7 | 1070.3 |
| 30° | 1071.6 | 1071.6 | 1042.8 | 1028.0 | 1014.9 |
| 32.5° | 1009.3 | 1006.3 | 987.4 | 970.3 | 957.9 |
| 35° | 898.5 | 903.2 | 887.9 | 873.2 | 862.9 |
| 37.5° | 775.9 | 780.4 | 764.8 | 748.0 | 740.9 |
| 40° | 685.9 | 689.6 | 676.3 | 658.7 | 649.3 |
| 42.5° | 575.1 | 595.4 | 583.1 | 564.0 | 551.6 |
| 45° | 373.2 | 434.4 | 440.6 | 417.8 | 347.3 |
| 47.5° | 194.5 | 258.5 | 305.5 | 233.3 | 163.5 |
| 50° | 114.5 | 155.9 | 223.2 | 127.4 | 102.0 |
| 52.5° | 73.7 | 91.7 | 157.0 | 81.5 | 68.9 |
| 55° | 34.6 | 41.2 | 71.2 | 40.3 | 36.6 |
| 57.5° | 12.9 | 19.3 | 32.1 | 19.5 | 14.0 |
| 60° | 2.9 | 8.5 | 18.3 | 5.7 | 1.0 |
| 62.5° | 0.6 | 2.5 | 10.6 | 1.1 | 0.2 |
| 65° | 0.0 | 0.0 | 1.0 | 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 | 0.6 | 0.6 |
| 90° | 0.0 | 0.9 | 2.9 | 2.9 | 2.9 |
| 92.5° | 3.1 | 10.8 | 36.7 | 12.1 | 9.8 |
| 95° | 8.7 | 25.6 | 116.3 | 42.9 | 27.9 |
| 97.5° | 15.8 | 33.3 | 192.7 | 119.9 | 75.6 |
| 100° | 21.2 | 37.1 | 217.3 | 203.3 | 135.6 |
| 102.5° | 26.5 | 41.8 | 212.7 | 290.3 | 227.9 |
| 105° | 34.6 | 48.7 | 194.2 | 370.7 | 353.8 |
| 107.5° | 42.7 | 55.9 | 176.5 | 376.9 | 395.6 |
| 110° | 48.1 | 61.2 | 167.3 | 368.1 | 404.8 |

TEST NUMBER: P559612

CATALOG NUMBER: DL2-BB-M-025U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 53.5 | 65.9 | 162.7 | 352.2 | 398.6 |
| 115° | 61.5 | 72.8 | 157.7 | 325.3 | 380.7 |
| 117.5° | 69.4 | 79.8 | 155.6 | 299.5 | 356.3 |
| 120° | 74.0 | 84.4 | 154.8 | 284.9 | 339.4 |
| 122.5° | 78.6 | 89.0 | 155.6 | 272.5 | 322.5 |
| 125° | 85.6 | 95.0 | 155.8 | 255.8 | 300.0 |
| 127.5° | 91.1 | 100.7 | 155.8 | 243.3 | 280.9 |
| 130° | 94.2 | 104.6 | 155.8 | 236.3 | 270.2 |
| 132.5° | 98.1 | 108.4 | 155.0 | 230.1 | 261.7 |
| 135° | 102.9 | 114.2 | 154.8 | 220.8 | 248.1 |
| 137.5° | 108.5 | 118.8 | 154.8 | 211.5 | 236.3 |
| 140° | 111.5 | 121.9 | 154.8 | 205.3 | 227.9 |
| 142.5° | 115.4 | 125.0 | 154.8 | 199.1 | 219.4 |
| 145° | 120.2 | 129.6 | 154.8 | 190.8 | 207.7 |
| 147.5° | 126.0 | 134.0 | 155.8 | 183.0 | 196.3 |
| 150° | 129.8 | 136.4 | 155.8 | 179.1 | 189.4 |
| 152.5° | 132.9 | 138.7 | 155.8 | 175.2 | 184.0 |
| 155° | 137.5 | 142.2 | 155.8 | 171.3 | 176.9 |
| 157.5° | 142.1 | 145.7 | 155.8 | 167.8 | 171.3 |
| 160° | 145.2 | 148.0 | 155.8 | 165.4 | 168.3 |
| 162.5° | 147.5 | 149.6 | 155.8 | 163.9 | 166.0 |
| 165° | 151.0 | 151.9 | 156.7 | 161.6 | 163.5 |
| 167.5° | 153.1 | 153.3 | 155.8 | 160.2 | 161.1 |
| 170° | 153.8 | 154.8 | 155.8 | 158.7 | 159.6 |
| 172.5° | 155.4 | 155.6 | 156.5 | 157.9 | 158.1 |
| 175° | 156.7 | 156.7 | 156.7 | 157.7 | 156.7 |
| 177.5° | 156.7 | 156.7 | 156.7 | 156.7 | 156.7 |
| 180° | 156.7 | 156.7 | 156.7 | 156.7 | 156.7 |

(END OF REPORT)