

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: P384251

Luminaire Tested: **14ID-55-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-55-L835-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

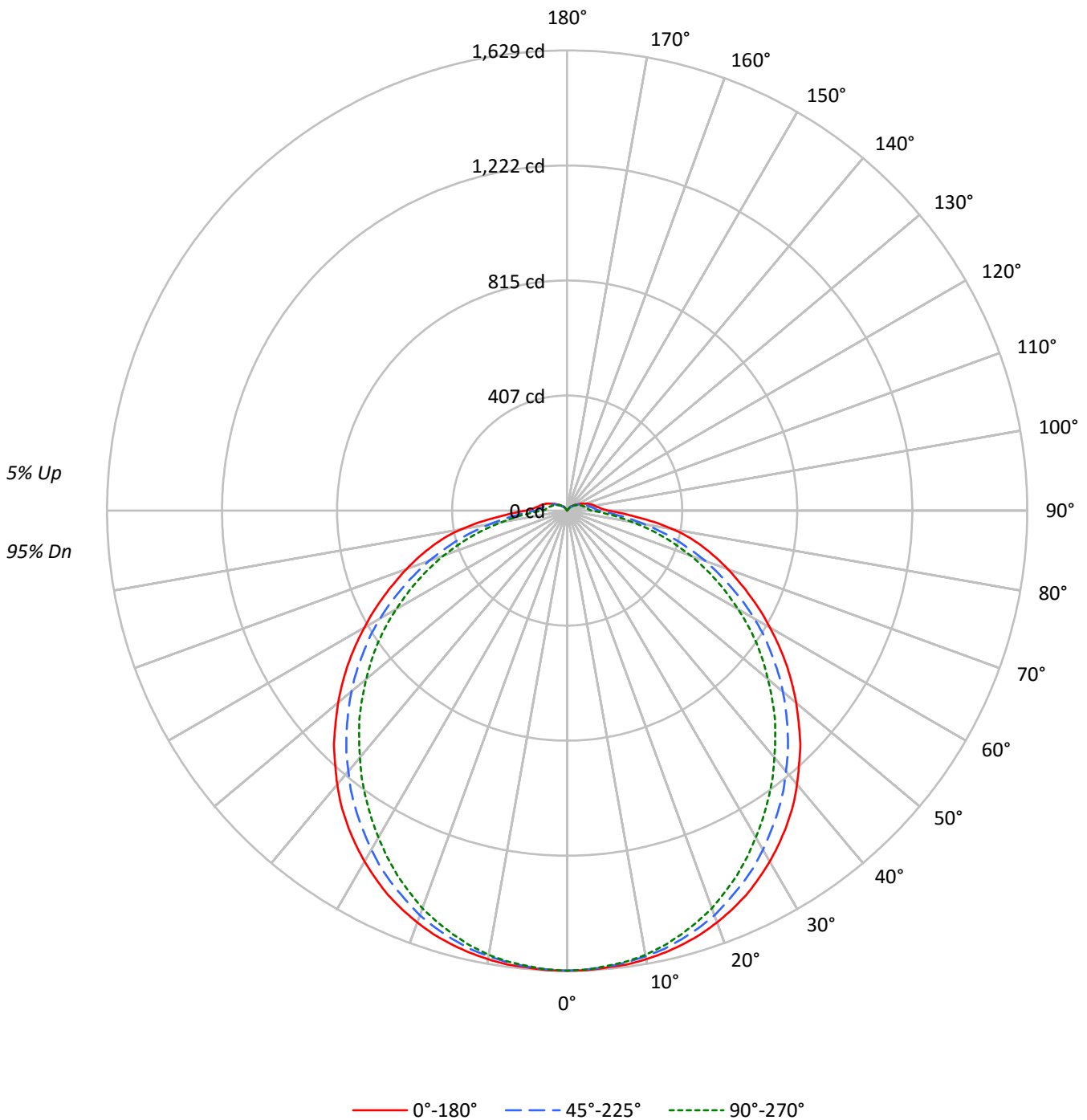
Lumens per Lamp: N/A
Luminaire Lumens: 5283.1 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.2
Input Voltage (V): NR
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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 93 | 90 | 86 | 88 | 85 | 83 | 84 | 81 | 79 | 77 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 73 | 81 | 75 | 70 | 77 | 72 | 68 | 73 | 69 | 66 | 63 |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 67 | 60 | 71 | 64 | 58 | 67 | 62 | 57 | 64 | 59 | 55 | 53 |
| 4 | 80 | 68 | 58 | 51 | 77 | 66 | 57 | 51 | 63 | 55 | 50 | 60 | 53 | 48 | 57 | 51 | 47 | 45 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 38 |
| 6 | 68 | 54 | 45 | 38 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 36 | 46 | 40 | 36 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 35 | 30 | 42 | 35 | 29 | 40 | 34 | 29 | 39 | 33 | 28 | 26 |
| 9 | 54 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 25 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4383 | 4383 | 4383 |
| 5° | 4370 | 4323 | 4308 |
| 10° | 4375 | 4267 | 4239 |
| 15° | 4378 | 4208 | 4145 |
| 20° | 4377 | 4145 | 4045 |
| 25° | 4371 | 4059 | 3922 |
| 30° | 4352 | 3970 | 3786 |
| 35° | 4331 | 3874 | 3655 |
| 40° | 4298 | 3767 | 3516 |
| 45° | 4266 | 3661 | 3391 |
| 50° | 4221 | 3551 | 3240 |
| 55° | 4191 | 3420 | 3101 |
| 60° | 4162 | 3281 | 2917 |
| 65° | 4176 | 3096 | 2726 |
| 70° | 4273 | 2912 | 2504 |
| 75° | 4485 | 2665 | 2222 |
| 80° | 4778 | 2341 | 1869 |
| 85° | 5017 | 2025 | 1530 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.2 | 2.9 |
| 10°-20° | 443.3 | 8.4 |
| 20°-30° | 673.3 | 12.7 |
| 30°-40° | 813.3 | 15.4 |
| 40°-50° | 851.2 | 16.1 |
| 50°-60° | 789.9 | 15.0 |
| 60°-70° | 639.8 | 12.1 |
| 70°-80° | 431.7 | 8.2 |
| 80°-90° | 208.6 | 3.9 |
| 90°-100° | 104.9 | 2.0 |
| 100°-110° | 76.3 | 1.4 |
| 110°-120° | 51.0 | 1.0 |
| 120°-130° | 29.6 | 0.6 |
| 130°-140° | 14.9 | 0.3 |
| 140°-150° | 1.1 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1270.8 | 24.1 |
| 0°-40° | 2084.1 | 39.4 |
| 0°-60° | 3725.2 | 70.5 |
| 0°-90° | 5005.3 | 94.7 |
| 90°-120° | 232.2 | 4.4 |
| 90°-150° | 277.8 | 5.3 |
| 90°-180° | 278.0 | 5.3 |
| 0°-180° | 5283.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1629 | 1629 | 1629 | 1629 | 1629 | |
| 5° | 1624 | 1621 | 1621 | 1618 | 1618 | 155 |
| 15° | 1589 | 1581 | 1570 | 1560 | 1554 | 449 |
| 25° | 1501 | 1488 | 1461 | 1434 | 1424 | 692 |
| 35° | 1357 | 1338 | 1301 | 1261 | 1242 | 849 |
| 45° | 1168 | 1146 | 1104 | 1058 | 1040 | 900 |
| 55° | 946 | 925 | 882 | 840 | 818 | 846 |
| 65° | 714 | 688 | 640 | 605 | 581 | 709 |
| 75° | 498 | 448 | 397 | 368 | 347 | 525 |
| 85° | 240 | 208 | 176 | 160 | 144 | 227 |
| 90° | 144 | 131 | 112 | 101 | 85 | 82 |
| 95° | 115 | 107 | 96 | 85 | 75 | 90 |
| 105° | 85 | 80 | 72 | 64 | 59 | 91 |
| 115° | 59 | 53 | 53 | 45 | 45 | 58 |
| 125° | 37 | 32 | 35 | 29 | 32 | 33 |
| 135° | 21 | 19 | 19 | 19 | 21 | 17 |
| 145° | 0 | 0 | 0 | 0 | 0 | 1 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1628.9 | 1628.9 | 1628.9 | 1628.9 | 1628.9 |
| 2.5° | 1628.9 | 1626.2 | 1626.2 | 1626.2 | 1626.2 |
| 5° | 1623.5 | 1620.9 | 1620.9 | 1618.2 | 1618.2 |
| 7.5° | 1620.9 | 1615.5 | 1612.9 | 1610.2 | 1610.2 |
| 10° | 1612.9 | 1607.6 | 1602.2 | 1596.9 | 1596.9 |
| 12.5° | 1602.2 | 1596.9 | 1588.9 | 1578.2 | 1578.2 |
| 15° | 1588.9 | 1580.9 | 1570.2 | 1559.6 | 1554.2 |
| 17.5° | 1572.9 | 1564.9 | 1548.9 | 1532.9 | 1527.6 |
| 20° | 1551.6 | 1540.9 | 1524.9 | 1503.6 | 1498.2 |
| 22.5° | 1527.6 | 1516.9 | 1492.9 | 1471.6 | 1460.9 |
| 25° | 1500.9 | 1487.6 | 1460.9 | 1434.3 | 1423.6 |
| 27.5° | 1468.9 | 1455.6 | 1426.3 | 1394.3 | 1380.9 |
| 30° | 1434.3 | 1418.3 | 1386.3 | 1351.6 | 1335.6 |
| 32.5° | 1396.9 | 1378.3 | 1343.6 | 1306.3 | 1290.3 |
| 35° | 1357.0 | 1338.3 | 1301.0 | 1261.0 | 1242.3 |
| 37.5° | 1314.3 | 1295.6 | 1255.6 | 1213.0 | 1194.3 |
| 40° | 1266.3 | 1247.7 | 1205.0 | 1162.3 | 1141.0 |
| 42.5° | 1215.7 | 1199.7 | 1157.0 | 1111.7 | 1090.4 |
| 45° | 1167.7 | 1146.3 | 1103.7 | 1058.4 | 1039.7 |
| 47.5° | 1111.7 | 1095.7 | 1050.4 | 1005.1 | 983.7 |
| 50° | 1058.4 | 1039.7 | 997.1 | 951.7 | 927.7 |
| 52.5° | 1002.4 | 986.4 | 941.1 | 895.8 | 874.4 |
| 55° | 946.4 | 925.1 | 882.4 | 839.8 | 818.4 |
| 57.5° | 887.8 | 869.1 | 826.4 | 786.4 | 759.8 |
| 60° | 829.1 | 810.4 | 765.1 | 727.8 | 698.5 |
| 62.5° | 773.1 | 751.8 | 703.8 | 663.8 | 639.8 |
| 65° | 714.5 | 687.8 | 639.8 | 605.2 | 581.2 |
| 67.5° | 658.5 | 626.5 | 578.5 | 546.5 | 522.5 |
| 70° | 605.2 | 567.8 | 519.9 | 487.9 | 463.9 |
| 72.5° | 551.8 | 506.5 | 455.9 | 426.5 | 405.2 |
| 75° | 498.5 | 447.9 | 397.2 | 367.9 | 346.6 |
| 77.5° | 445.2 | 386.6 | 335.9 | 311.9 | 290.6 |
| 80° | 381.2 | 325.2 | 277.3 | 255.9 | 234.6 |
| 82.5° | 309.2 | 263.9 | 223.9 | 202.6 | 186.6 |
| 85° | 239.9 | 207.9 | 176.0 | 160.0 | 144.0 |
| 87.5° | 186.6 | 162.6 | 138.6 | 125.3 | 112.0 |
| 90° | 144.0 | 130.6 | 112.0 | 101.3 | 85.3 |
| 92.5° | 125.3 | 114.6 | 101.3 | 90.6 | 77.3 |
| 95° | 114.6 | 106.6 | 96.0 | 85.3 | 74.6 |
| 97.5° | 104.0 | 98.6 | 88.0 | 80.0 | 69.3 |
| 100° | 98.6 | 90.6 | 82.6 | 74.6 | 66.6 |
| 102.5° | 93.3 | 85.3 | 77.3 | 69.3 | 64.0 |
| 105° | 85.3 | 80.0 | 72.0 | 64.0 | 58.7 |
| 107.5° | 80.0 | 72.0 | 66.6 | 58.7 | 56.0 |
| 110° | 72.0 | 66.6 | 61.3 | 56.0 | 53.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 64.0 | 61.3 | 56.0 | 50.7 | 48.0 |
| 115° | 58.7 | 53.3 | 53.3 | 45.3 | 45.3 |
| 117.5° | 53.3 | 48.0 | 48.0 | 42.7 | 42.7 |
| 120° | 45.3 | 42.7 | 42.7 | 37.3 | 37.3 |
| 122.5° | 40.0 | 37.3 | 37.3 | 34.7 | 34.7 |
| 125° | 37.3 | 32.0 | 34.7 | 29.3 | 32.0 |
| 127.5° | 32.0 | 29.3 | 29.3 | 26.7 | 29.3 |
| 130° | 26.7 | 24.0 | 24.0 | 24.0 | 26.7 |
| 132.5° | 24.0 | 21.3 | 21.3 | 21.3 | 24.0 |
| 135° | 21.3 | 18.7 | 18.7 | 18.7 | 21.3 |
| 137.5° | 18.7 | 16.0 | 13.3 | 16.0 | 18.7 |
| 140° | 16.0 | 13.3 | 10.7 | 13.3 | 16.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)