

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: P384233

Luminaire Tested: **14ID-30-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384233
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-30-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

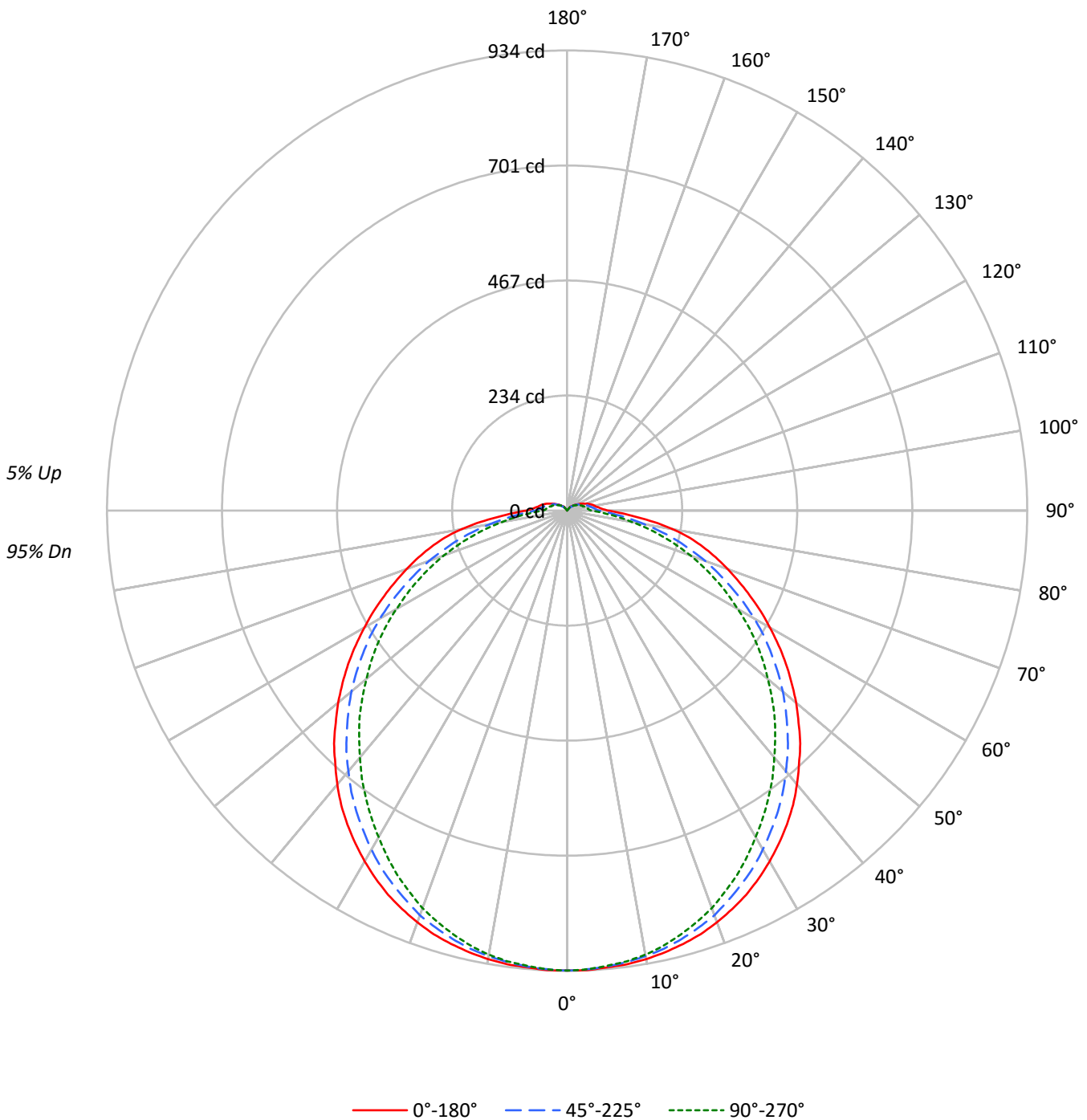
Lumens per Lamp: N/A
Luminaire Lumens: 3027.9 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.9
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° | 2512 | 2512 | 2512 |
| 5° | 2504 | 2478 | 2469 |
| 10° | 2507 | 2446 | 2429 |
| 15° | 2509 | 2412 | 2376 |
| 20° | 2508 | 2375 | 2318 |
| 25° | 2505 | 2326 | 2248 |
| 30° | 2494 | 2275 | 2170 |
| 35° | 2482 | 2220 | 2095 |
| 40° | 2463 | 2159 | 2015 |
| 45° | 2445 | 2098 | 1944 |
| 50° | 2419 | 2035 | 1857 |
| 55° | 2402 | 1960 | 1778 |
| 60° | 2385 | 1880 | 1672 |
| 65° | 2394 | 1774 | 1563 |
| 70° | 2448 | 1669 | 1435 |
| 75° | 2571 | 1528 | 1273 |
| 80° | 2739 | 1342 | 1071 |
| 85° | 2876 | 1160 | 877 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.4 | 2.9 |
| 10°-20° | 254.1 | 8.4 |
| 20°-30° | 385.9 | 12.7 |
| 30°-40° | 466.1 | 15.4 |
| 40°-50° | 487.9 | 16.1 |
| 50°-60° | 452.7 | 15.0 |
| 60°-70° | 366.7 | 12.1 |
| 70°-80° | 247.4 | 8.2 |
| 80°-90° | 119.6 | 3.9 |
| 90°-100° | 60.1 | 2.0 |
| 100°-110° | 43.7 | 1.4 |
| 110°-120° | 29.2 | 1.0 |
| 120°-130° | 16.9 | 0.6 |
| 130°-140° | 8.5 | 0.3 |
| 140°-150° | 0.7 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 728.3 | 24.1 |
| 0°-40° | 1194.4 | 39.4 |
| 0°-60° | 2135.0 | 70.5 |
| 0°-90° | 2868.7 | 94.7 |
| 90°-120° | 133.1 | 4.4 |
| 90°-150° | 159.2 | 5.3 |
| 90°-180° | 159.0 | 5.3 |
| 0°-180° | 3027.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 934 | 934 | 934 | 934 | 934 | |
| 5° | 930 | 929 | 929 | 927 | 927 | 89 |
| 15° | 911 | 906 | 900 | 894 | 891 | 257 |
| 25° | 860 | 853 | 837 | 822 | 816 | 396 |
| 35° | 778 | 767 | 746 | 723 | 712 | 487 |
| 45° | 669 | 657 | 633 | 607 | 596 | 516 |
| 55° | 542 | 530 | 506 | 481 | 469 | 485 |
| 65° | 410 | 394 | 367 | 347 | 333 | 406 |
| 75° | 286 | 257 | 228 | 211 | 199 | 301 |
| 85° | 138 | 119 | 101 | 92 | 82 | 130 |
| 90° | 82 | 75 | 64 | 58 | 49 | 47 |
| 95° | 66 | 61 | 55 | 49 | 43 | 52 |
| 105° | 49 | 46 | 41 | 37 | 34 | 52 |
| 115° | 34 | 31 | 31 | 26 | 26 | 33 |
| 125° | 21 | 18 | 20 | 17 | 18 | 19 |
| 135° | 12 | 11 | 11 | 11 | 12 | 10 |
| 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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CATALOG NUMBER: 14ID-30-L850-CFD2

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 |
| 2.5° | 933.6 | 932.0 | 932.0 | 932.0 | 932.0 |
| 5° | 930.5 | 929.0 | 929.0 | 927.4 | 927.4 |
| 7.5° | 929.0 | 925.9 | 924.4 | 922.9 | 922.9 |
| 10° | 924.4 | 921.3 | 918.3 | 915.2 | 915.2 |
| 12.5° | 918.3 | 915.2 | 910.6 | 904.5 | 904.5 |
| 15° | 910.6 | 906.1 | 899.9 | 893.8 | 890.8 |
| 17.5° | 901.5 | 896.9 | 887.7 | 878.6 | 875.5 |
| 20° | 889.2 | 883.1 | 874.0 | 861.7 | 858.7 |
| 22.5° | 875.5 | 869.4 | 855.6 | 843.4 | 837.3 |
| 25° | 860.2 | 852.6 | 837.3 | 822.0 | 815.9 |
| 27.5° | 841.9 | 834.2 | 817.4 | 799.1 | 791.5 |
| 30° | 822.0 | 812.9 | 794.5 | 774.7 | 765.5 |
| 32.5° | 800.6 | 789.9 | 770.1 | 748.7 | 739.5 |
| 35° | 777.7 | 767.0 | 745.6 | 722.7 | 712.0 |
| 37.5° | 753.3 | 742.6 | 719.6 | 695.2 | 684.5 |
| 40° | 725.8 | 715.1 | 690.6 | 666.2 | 653.9 |
| 42.5° | 696.7 | 687.6 | 663.1 | 637.1 | 624.9 |
| 45° | 669.2 | 657.0 | 632.6 | 606.6 | 595.9 |
| 47.5° | 637.1 | 628.0 | 602.0 | 576.0 | 563.8 |
| 50° | 606.6 | 595.9 | 571.4 | 545.5 | 531.7 |
| 52.5° | 574.5 | 565.3 | 539.4 | 513.4 | 501.2 |
| 55° | 542.4 | 530.2 | 505.7 | 481.3 | 469.1 |
| 57.5° | 508.8 | 498.1 | 473.7 | 450.7 | 435.5 |
| 60° | 475.2 | 464.5 | 438.5 | 417.1 | 400.3 |
| 62.5° | 443.1 | 430.9 | 403.4 | 380.5 | 366.7 |
| 65° | 409.5 | 394.2 | 366.7 | 346.8 | 333.1 |
| 67.5° | 377.4 | 359.1 | 331.6 | 313.2 | 299.5 |
| 70° | 346.8 | 325.4 | 297.9 | 279.6 | 265.9 |
| 72.5° | 316.3 | 290.3 | 261.3 | 244.5 | 232.2 |
| 75° | 285.7 | 256.7 | 227.7 | 210.9 | 198.6 |
| 77.5° | 255.2 | 221.5 | 192.5 | 178.8 | 166.5 |
| 80° | 218.5 | 186.4 | 158.9 | 146.7 | 134.5 |
| 82.5° | 177.2 | 151.3 | 128.3 | 116.1 | 107.0 |
| 85° | 137.5 | 119.2 | 100.8 | 91.7 | 82.5 |
| 87.5° | 107.0 | 93.2 | 79.5 | 71.8 | 64.2 |
| 90° | 82.5 | 74.9 | 64.2 | 58.1 | 48.9 |
| 92.5° | 71.8 | 65.7 | 58.1 | 51.9 | 44.3 |
| 95° | 65.7 | 61.1 | 55.0 | 48.9 | 42.8 |
| 97.5° | 59.6 | 56.5 | 50.4 | 45.8 | 39.7 |
| 100° | 56.5 | 51.9 | 47.4 | 42.8 | 38.2 |
| 102.5° | 53.5 | 48.9 | 44.3 | 39.7 | 36.7 |
| 105° | 48.9 | 45.8 | 41.3 | 36.7 | 33.6 |
| 107.5° | 45.8 | 41.3 | 38.2 | 33.6 | 32.1 |
| 110° | 41.3 | 38.2 | 35.1 | 32.1 | 30.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 36.7 | 35.1 | 32.1 | 29.0 | 27.5 |
| 115° | 33.6 | 30.6 | 30.6 | 26.0 | 26.0 |
| 117.5° | 30.6 | 27.5 | 27.5 | 24.4 | 24.4 |
| 120° | 26.0 | 24.4 | 24.4 | 21.4 | 21.4 |
| 122.5° | 22.9 | 21.4 | 21.4 | 19.9 | 19.9 |
| 125° | 21.4 | 18.3 | 19.9 | 16.8 | 18.3 |
| 127.5° | 18.3 | 16.8 | 16.8 | 15.3 | 16.8 |
| 130° | 15.3 | 13.8 | 13.8 | 13.8 | 15.3 |
| 132.5° | 13.8 | 12.2 | 12.2 | 12.2 | 13.8 |
| 135° | 12.2 | 10.7 | 10.7 | 10.7 | 12.2 |
| 137.5° | 10.7 | 9.2 | 7.6 | 9.2 | 10.7 |
| 140° | 9.2 | 7.6 | 6.1 | 7.6 | 9.2 |
| 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)