

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: P384108

Luminaire Tested: **14ID-85-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-85-L840-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

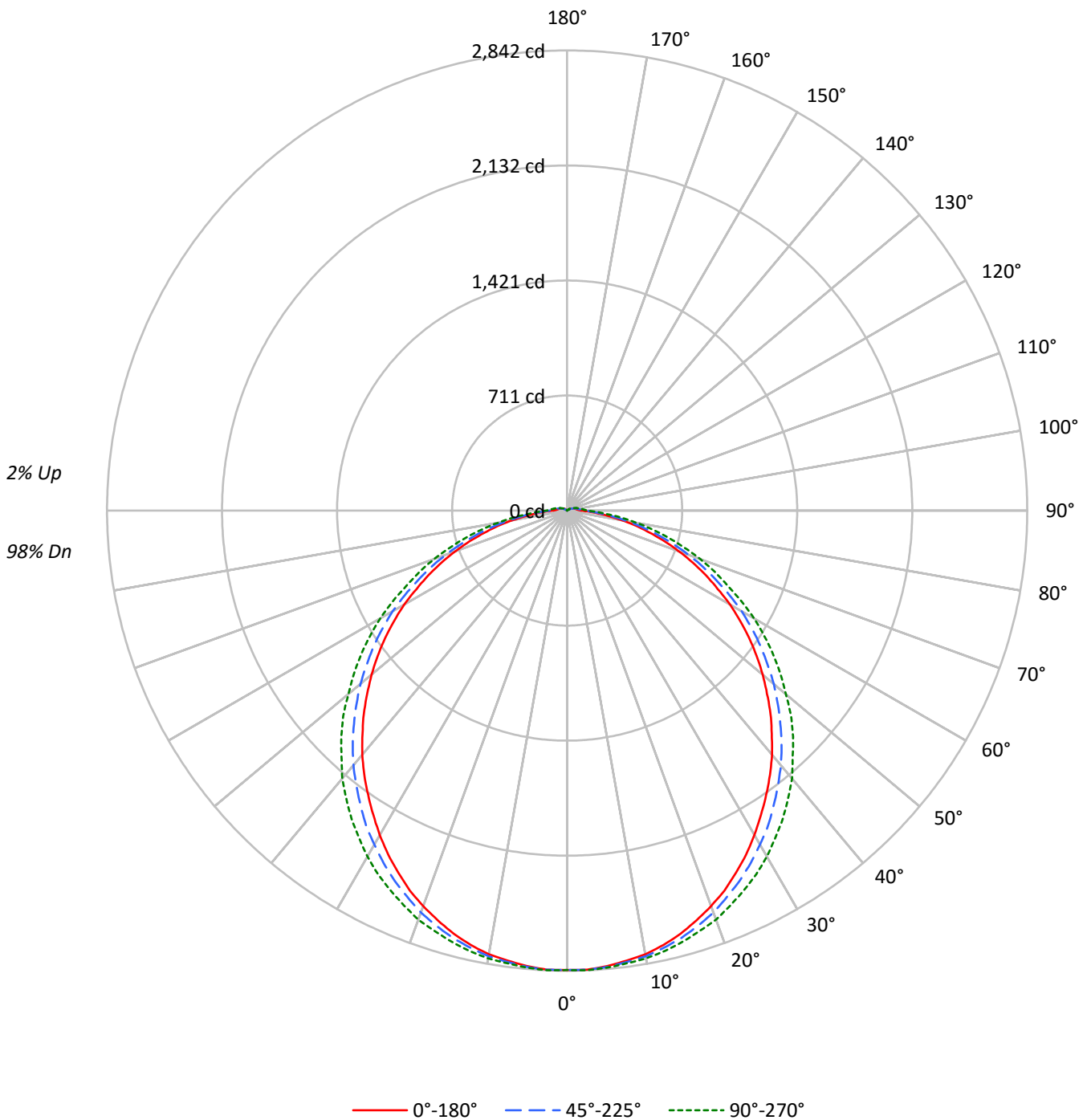
Lumens per Lamp: N/A
Luminaire Lumens: 8404.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 83.3
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | | 105 | 105 | 105 | | 100 | 100 | 100 | 98 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 92 | 89 | | 91 | 88 | 86 | | 87 | 85 | 83 | 81 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | | 80 | 75 | 71 | | 76 | 73 | 69 | 67 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 63 | 73 | 67 | 61 | | 70 | 64 | 60 | | 67 | 62 | 58 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | | 62 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 58 | 51 | 45 | | 56 | 49 | 44 | | 54 | 48 | 44 | 41 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 52 | 45 | 39 | | 51 | 44 | 39 | | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | | 46 | 39 | 34 | | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | | 42 | 36 | 31 | | 41 | 35 | 30 | 28 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | | 39 | 32 | 28 | | 38 | 32 | 27 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7636 | 7636 | 7636 |
| 5° | 7617 | 7593 | 7599 |
| 10° | 7575 | 7540 | 7561 |
| 15° | 7496 | 7462 | 7513 |
| 20° | 7387 | 7368 | 7473 |
| 25° | 7254 | 7241 | 7392 |
| 30° | 7104 | 7099 | 7314 |
| 35° | 6939 | 6948 | 7208 |
| 40° | 6796 | 6795 | 7093 |
| 45° | 6624 | 6600 | 6930 |
| 50° | 6440 | 6412 | 6718 |
| 55° | 6251 | 6186 | 6521 |
| 60° | 6042 | 5939 | 6272 |
| 65° | 5765 | 5577 | 5893 |
| 70° | 5454 | 5214 | 5593 |
| 75° | 5097 | 4726 | 5136 |
| 80° | 4725 | 4145 | 4574 |
| 85° | 4569 | 3571 | 3908 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 268.8 | 3.2 |
| 10°-20° | 770.4 | 9.2 |
| 20°-30° | 1163.1 | 13.8 |
| 30°-40° | 1393.6 | 16.6 |
| 40°-50° | 1440.9 | 17.1 |
| 50°-60° | 1304.8 | 15.5 |
| 60°-70° | 1009.7 | 12.0 |
| 70°-80° | 620.2 | 7.4 |
| 80°-90° | 246.4 | 2.9 |
| 90°-100° | 89.9 | 1.1 |
| 100°-110° | 55.3 | 0.7 |
| 110°-120° | 28.4 | 0.3 |
| 120°-130° | 12.1 | 0.1 |
| 130°-140° | 0.8 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2202.3 | 26.2 |
| 0°-40° | 3595.9 | 42.8 |
| 0°-60° | 6341.6 | 75.5 |
| 0°-90° | 8217.9 | 97.8 |
| 90°-120° | 173.6 | 2.1 |
| 90°-150° | 186.5 | 2.2 |
| 90°-180° | 186.0 | 2.2 |
| 0°-180° | 8404.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2838 | 2838 | 2838 | 2838 | 2838 | |
| 5° | 2825 | 2825 | 2829 | 2829 | 2834 | 268 |
| 15° | 2706 | 2710 | 2731 | 2748 | 2757 | 763 |
| 25° | 2467 | 2484 | 2522 | 2565 | 2586 | 1137 |
| 35° | 2143 | 2169 | 2224 | 2284 | 2322 | 1342 |
| 45° | 1777 | 1798 | 1862 | 1939 | 1973 | 1369 |
| 55° | 1372 | 1402 | 1457 | 1521 | 1555 | 1226 |
| 65° | 946 | 967 | 1014 | 1065 | 1091 | 936 |
| 75° | 528 | 554 | 580 | 618 | 648 | 563 |
| 85° | 183 | 196 | 213 | 234 | 247 | 183 |
| 90° | 85 | 98 | 106 | 119 | 128 | 50 |
| 95° | 64 | 72 | 81 | 90 | 98 | 51 |
| 105° | 47 | 47 | 51 | 55 | 60 | 50 |
| 115° | 30 | 26 | 26 | 30 | 34 | 30 |
| 125° | 17 | 13 | 8 | 13 | 17 | 16 |
| 135° | 0 | 0 | 0 | 0 | 0 | 1 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 2837.7 | 2837.7 | 2837.7 | 2837.7 | 2837.7 |
| 2.5° | 2837.7 | 2833.5 | 2837.7 | 2837.7 | 2842.0 |
| 5° | 2824.9 | 2824.9 | 2829.2 | 2829.2 | 2833.5 |
| 7.5° | 2803.6 | 2803.6 | 2812.1 | 2816.4 | 2820.7 |
| 10° | 2782.3 | 2782.3 | 2795.1 | 2799.4 | 2807.9 |
| 12.5° | 2748.2 | 2752.5 | 2765.3 | 2778.1 | 2786.6 |
| 15° | 2705.6 | 2709.9 | 2731.2 | 2748.2 | 2756.8 |
| 17.5° | 2654.5 | 2663.0 | 2688.6 | 2714.1 | 2722.7 |
| 20° | 2599.1 | 2611.9 | 2641.7 | 2671.5 | 2688.6 |
| 22.5° | 2539.5 | 2548.0 | 2582.1 | 2620.4 | 2637.5 |
| 25° | 2467.0 | 2484.1 | 2522.4 | 2565.0 | 2586.3 |
| 27.5° | 2394.6 | 2411.6 | 2454.2 | 2505.4 | 2530.9 |
| 30° | 2313.6 | 2330.7 | 2381.8 | 2437.2 | 2467.0 |
| 32.5° | 2228.4 | 2249.7 | 2309.4 | 2364.8 | 2394.6 |
| 35° | 2143.2 | 2168.8 | 2224.2 | 2283.8 | 2322.2 |
| 37.5° | 2058.0 | 2079.3 | 2138.9 | 2202.8 | 2241.2 |
| 40° | 1968.5 | 1989.8 | 2053.7 | 2117.6 | 2160.2 |
| 42.5° | 1870.5 | 1896.1 | 1960.0 | 2028.2 | 2062.2 |
| 45° | 1776.8 | 1798.1 | 1862.0 | 1938.7 | 1972.8 |
| 47.5° | 1674.5 | 1704.3 | 1764.0 | 1836.4 | 1874.8 |
| 50° | 1576.5 | 1602.1 | 1666.0 | 1734.2 | 1764.0 |
| 52.5° | 1474.2 | 1499.8 | 1559.5 | 1627.6 | 1661.7 |
| 55° | 1372.0 | 1401.8 | 1457.2 | 1521.1 | 1555.2 |
| 57.5° | 1265.5 | 1295.3 | 1350.7 | 1406.1 | 1444.4 |
| 60° | 1163.2 | 1193.0 | 1244.2 | 1299.6 | 1333.6 |
| 62.5° | 1048.2 | 1073.7 | 1129.1 | 1188.8 | 1214.3 |
| 65° | 945.9 | 967.2 | 1014.1 | 1065.2 | 1090.8 |
| 67.5° | 839.4 | 864.9 | 907.6 | 954.4 | 984.3 |
| 70° | 732.9 | 762.7 | 796.8 | 839.4 | 873.5 |
| 72.5° | 630.6 | 656.2 | 686.0 | 728.6 | 758.4 |
| 75° | 528.3 | 553.9 | 579.5 | 617.8 | 647.6 |
| 77.5° | 438.9 | 451.6 | 477.2 | 511.3 | 541.1 |
| 80° | 340.9 | 357.9 | 379.2 | 413.3 | 434.6 |
| 82.5° | 255.6 | 272.7 | 289.7 | 315.3 | 336.6 |
| 85° | 183.2 | 196.0 | 213.0 | 234.3 | 247.1 |
| 87.5° | 123.6 | 136.3 | 149.1 | 166.2 | 179.0 |
| 90° | 85.2 | 98.0 | 106.5 | 119.3 | 127.8 |
| 92.5° | 72.4 | 81.0 | 89.5 | 98.0 | 106.5 |
| 95° | 63.9 | 72.4 | 81.0 | 89.5 | 98.0 |
| 97.5° | 59.7 | 63.9 | 72.4 | 81.0 | 85.2 |
| 100° | 55.4 | 59.7 | 63.9 | 72.4 | 76.7 |
| 102.5° | 51.1 | 51.1 | 59.7 | 63.9 | 68.2 |
| 105° | 46.9 | 46.9 | 51.1 | 55.4 | 59.7 |
| 107.5° | 42.6 | 42.6 | 46.9 | 46.9 | 55.4 |
| 110° | 38.3 | 34.1 | 38.3 | 38.3 | 46.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 34.1 | 29.8 | 34.1 | 34.1 | 38.3 |
| 115° | 29.8 | 25.6 | 25.6 | 29.8 | 34.1 |
| 117.5° | 25.6 | 21.3 | 21.3 | 21.3 | 29.8 |
| 120° | 25.6 | 21.3 | 17.0 | 17.0 | 25.6 |
| 122.5° | 21.3 | 17.0 | 12.8 | 17.0 | 21.3 |
| 125° | 17.0 | 12.8 | 8.5 | 12.8 | 17.0 |
| 127.5° | 12.8 | 12.8 | 4.3 | 8.5 | 12.8 |
| 130° | 12.8 | 8.5 | 4.3 | 8.5 | 8.5 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)