

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: P384163

Luminaire Tested: **22ID-85-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384163
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: 22ID-85-L835-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

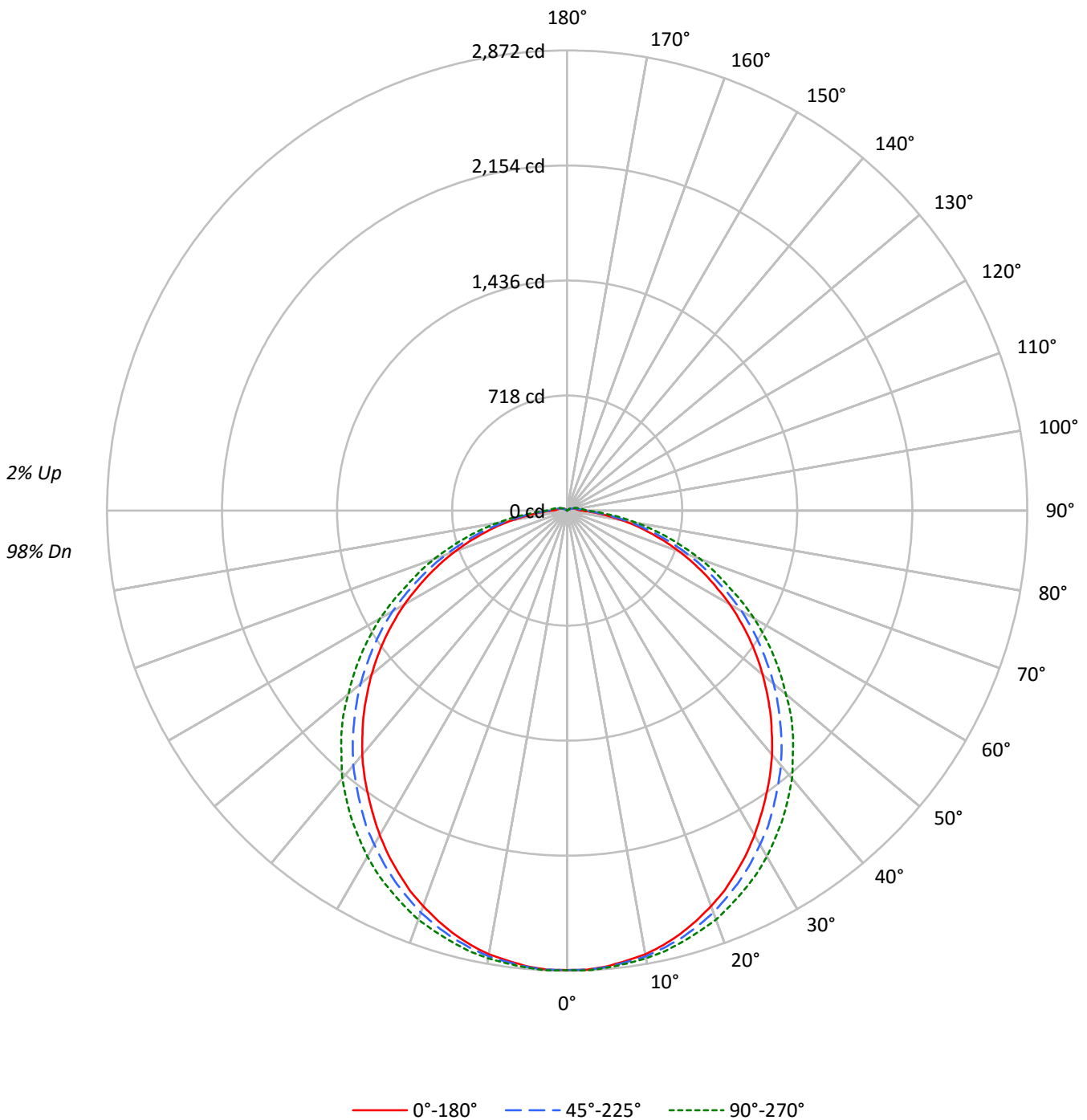
Lumens per Lamp: N/A
Luminaire Lumens: 8494.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 76.8
Input Voltage (V): NR
Input Current (A_{in}): 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° | 7718 | 7718 | 7718 |
| 5° | 7684 | 7684 | 7708 |
| 10° | 7628 | 7640 | 7698 |
| 15° | 7534 | 7571 | 7676 |
| 20° | 7410 | 7485 | 7665 |
| 25° | 7262 | 7367 | 7614 |
| 30° | 7095 | 7234 | 7566 |
| 35° | 6914 | 7092 | 7492 |
| 40° | 6753 | 6948 | 7411 |
| 45° | 6561 | 6763 | 7284 |
| 50° | 6355 | 6587 | 7111 |
| 55° | 6140 | 6374 | 6960 |
| 60° | 5901 | 6141 | 6766 |
| 65° | 5588 | 5794 | 6444 |
| 70° | 5229 | 5453 | 6233 |
| 75° | 4805 | 4992 | 5890 |
| 80° | 4319 | 4453 | 5506 |
| 85° | 3874 | 3973 | 5225 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 271.6 | 3.2 |
| 10°-20° | 778.6 | 9.2 |
| 20°-30° | 1175.6 | 13.8 |
| 30°-40° | 1408.5 | 16.6 |
| 40°-50° | 1456.2 | 17.1 |
| 50°-60° | 1318.7 | 15.5 |
| 60°-70° | 1020.5 | 12.0 |
| 70°-80° | 626.9 | 7.4 |
| 80°-90° | 249.1 | 2.9 |
| 90°-100° | 90.9 | 1.1 |
| 100°-110° | 55.9 | 0.7 |
| 110°-120° | 28.7 | 0.3 |
| 120°-130° | 12.2 | 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° | 2225.8 | 26.2 |
| 0°-40° | 3634.3 | 42.8 |
| 0°-60° | 6409.3 | 75.5 |
| 0°-90° | 8305.7 | 97.8 |
| 90°-120° | 175.4 | 2.1 |
| 90°-150° | 188.5 | 2.2 |
| 90°-180° | 188.0 | 2.2 |
| 0°-180° | 8494.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2868 | 2868 | 2868 | 2868 | 2868 | |
| 5° | 2855 | 2855 | 2859 | 2859 | 2864 | 271 |
| 15° | 2734 | 2739 | 2760 | 2778 | 2786 | 771 |
| 25° | 2493 | 2511 | 2549 | 2592 | 2614 | 1149 |
| 35° | 2166 | 2192 | 2248 | 2308 | 2347 | 1356 |
| 45° | 1796 | 1817 | 1882 | 1959 | 1994 | 1384 |
| 55° | 1387 | 1417 | 1473 | 1537 | 1572 | 1239 |
| 65° | 956 | 978 | 1025 | 1077 | 1102 | 946 |
| 75° | 534 | 560 | 586 | 624 | 655 | 569 |
| 85° | 185 | 198 | 215 | 237 | 250 | 185 |
| 90° | 86 | 99 | 108 | 121 | 129 | 51 |
| 95° | 65 | 73 | 82 | 90 | 99 | 52 |
| 105° | 47 | 47 | 52 | 56 | 60 | 50 |
| 115° | 30 | 26 | 26 | 30 | 34 | 31 |
| 125° | 17 | 13 | 9 | 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° | 2868.0 | 2868.0 | 2868.0 | 2868.0 | 2868.0 |
| 2.5° | 2868.0 | 2863.7 | 2868.0 | 2868.0 | 2872.3 |
| 5° | 2855.1 | 2855.1 | 2859.4 | 2859.4 | 2863.7 |
| 7.5° | 2833.6 | 2833.6 | 2842.2 | 2846.5 | 2850.8 |
| 10° | 2812.1 | 2812.1 | 2825.0 | 2829.3 | 2837.9 |
| 12.5° | 2777.6 | 2781.9 | 2794.8 | 2807.7 | 2816.4 |
| 15° | 2734.5 | 2738.8 | 2760.4 | 2777.6 | 2786.2 |
| 17.5° | 2682.9 | 2691.5 | 2717.3 | 2743.1 | 2751.8 |
| 20° | 2626.9 | 2639.8 | 2669.9 | 2700.1 | 2717.3 |
| 22.5° | 2566.6 | 2575.2 | 2609.7 | 2648.4 | 2665.6 |
| 25° | 2493.4 | 2510.6 | 2549.4 | 2592.4 | 2614.0 |
| 27.5° | 2420.2 | 2437.4 | 2480.5 | 2532.1 | 2558.0 |
| 30° | 2338.4 | 2355.6 | 2407.3 | 2463.2 | 2493.4 |
| 32.5° | 2252.2 | 2273.8 | 2334.0 | 2390.0 | 2420.2 |
| 35° | 2166.1 | 2191.9 | 2247.9 | 2308.2 | 2347.0 |
| 37.5° | 2080.0 | 2101.5 | 2161.8 | 2226.4 | 2265.1 |
| 40° | 1989.5 | 2011.1 | 2075.7 | 2140.3 | 2183.3 |
| 42.5° | 1890.5 | 1916.3 | 1980.9 | 2049.8 | 2084.3 |
| 45° | 1795.8 | 1817.3 | 1881.9 | 1959.4 | 1993.8 |
| 47.5° | 1692.4 | 1722.5 | 1782.8 | 1856.0 | 1894.8 |
| 50° | 1593.4 | 1619.2 | 1683.8 | 1752.7 | 1782.8 |
| 52.5° | 1490.0 | 1515.8 | 1576.1 | 1645.0 | 1679.5 |
| 55° | 1386.6 | 1416.8 | 1472.8 | 1537.4 | 1571.8 |
| 57.5° | 1279.0 | 1309.1 | 1365.1 | 1421.1 | 1459.9 |
| 60° | 1175.6 | 1205.8 | 1257.5 | 1313.4 | 1347.9 |
| 62.5° | 1059.4 | 1085.2 | 1141.2 | 1201.5 | 1227.3 |
| 65° | 956.0 | 977.5 | 1024.9 | 1076.6 | 1102.4 |
| 67.5° | 848.4 | 874.2 | 917.3 | 964.6 | 994.8 |
| 70° | 740.7 | 770.8 | 805.3 | 848.4 | 882.8 |
| 72.5° | 637.3 | 663.2 | 693.3 | 736.4 | 766.5 |
| 75° | 534.0 | 559.8 | 585.7 | 624.4 | 654.6 |
| 77.5° | 443.6 | 456.5 | 482.3 | 516.8 | 546.9 |
| 80° | 344.5 | 361.7 | 383.3 | 417.7 | 439.2 |
| 82.5° | 258.4 | 275.6 | 292.8 | 318.7 | 340.2 |
| 85° | 185.2 | 198.1 | 215.3 | 236.8 | 249.8 |
| 87.5° | 124.9 | 137.8 | 150.7 | 167.9 | 180.9 |
| 90° | 86.1 | 99.0 | 107.7 | 120.6 | 129.2 |
| 92.5° | 73.2 | 81.8 | 90.4 | 99.0 | 107.7 |
| 95° | 64.6 | 73.2 | 81.8 | 90.4 | 99.0 |
| 97.5° | 60.3 | 64.6 | 73.2 | 81.8 | 86.1 |
| 100° | 56.0 | 60.3 | 64.6 | 73.2 | 77.5 |
| 102.5° | 51.7 | 51.7 | 60.3 | 64.6 | 68.9 |
| 105° | 47.4 | 47.4 | 51.7 | 56.0 | 60.3 |
| 107.5° | 43.1 | 43.1 | 47.4 | 47.4 | 56.0 |
| 110° | 38.8 | 34.5 | 38.8 | 38.8 | 47.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 34.5 | 30.1 | 34.5 | 34.5 | 38.8 |
| 115° | 30.1 | 25.8 | 25.8 | 30.1 | 34.5 |
| 117.5° | 25.8 | 21.5 | 21.5 | 21.5 | 30.1 |
| 120° | 25.8 | 21.5 | 17.2 | 17.2 | 25.8 |
| 122.5° | 21.5 | 17.2 | 12.9 | 17.2 | 21.5 |
| 125° | 17.2 | 12.9 | 8.6 | 12.9 | 17.2 |
| 127.5° | 12.9 | 12.9 | 4.3 | 8.6 | 12.9 |
| 130° | 12.9 | 8.6 | 4.3 | 8.6 | 8.6 |
| 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)