

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: P383823

Luminaire Tested: **22ID-80-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-80-L835-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

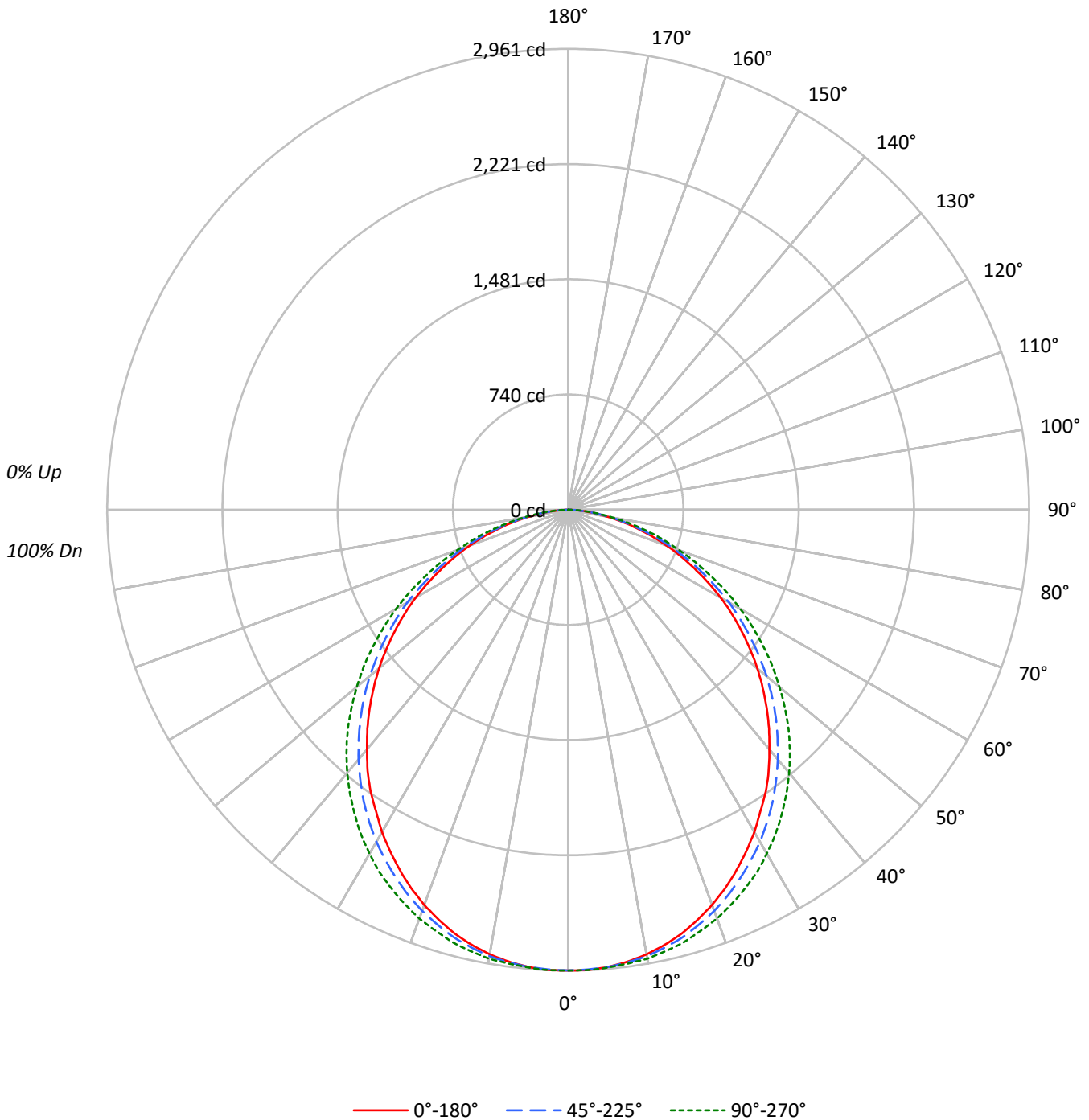
Lumens per Lamp: N/A
Luminaire Lumens: 8041.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
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 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | | 82 | 78 | 74 | | 79 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | | 73 | 67 | 63 | | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | | 65 | 59 | 54 | | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | | 58 | 52 | 47 | | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | | 53 | 46 | 41 | | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | | 48 | 42 | 37 | | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | | 44 | 38 | 33 | | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | | 41 | 34 | 30 | | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | | 38 | 31 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7968 | 7968 | 7968 |
| 5° | 7966 | 7966 | 7977 |
| 10° | 7925 | 7958 | 8003 |
| 15° | 7855 | 7922 | 8013 |
| 20° | 7738 | 7854 | 8005 |
| 25° | 7591 | 7759 | 7975 |
| 30° | 7429 | 7655 | 7931 |
| 35° | 7269 | 7522 | 7854 |
| 40° | 7062 | 7361 | 7759 |
| 45° | 6866 | 7174 | 7620 |
| 50° | 6638 | 6960 | 7417 |
| 55° | 6377 | 6699 | 7174 |
| 60° | 6096 | 6422 | 6880 |
| 65° | 5692 | 6027 | 6439 |
| 70° | 5283 | 5570 | 5951 |
| 75° | 4711 | 4963 | 5384 |
| 80° | 3949 | 4138 | 4514 |
| 85° | 2998 | 2998 | 3372 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 280.3 | 3.5 |
| 10°-20° | 801.9 | 10.0 |
| 20°-30° | 1205.7 | 15.0 |
| 30°-40° | 1434.4 | 17.8 |
| 40°-50° | 1459.5 | 18.1 |
| 50°-60° | 1284.4 | 16.0 |
| 60°-70° | 942.2 | 11.7 |
| 70°-80° | 511.4 | 6.4 |
| 80°-90° | 122.0 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 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° | 2287.9 | 28.4 |
| 0°-40° | 3722.2 | 46.3 |
| 0°-60° | 6466.1 | 80.4 |
| 0°-90° | 8041.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8041.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2961 | 2961 | 2961 | 2961 | 2961 | |
| 5° | 2949 | 2945 | 2949 | 2949 | 2953 | 280 |
| 15° | 2820 | 2824 | 2844 | 2860 | 2876 | 794 |
| 25° | 2556 | 2573 | 2613 | 2658 | 2686 | 1177 |
| 35° | 2213 | 2229 | 2290 | 2358 | 2391 | 1382 |
| 45° | 1804 | 1820 | 1885 | 1966 | 2002 | 1391 |
| 55° | 1359 | 1379 | 1428 | 1497 | 1529 | 1216 |
| 65° | 894 | 910 | 947 | 987 | 1011 | 889 |
| 75° | 453 | 461 | 477 | 502 | 518 | 481 |
| 85° | 97 | 97 | 97 | 105 | 109 | 117 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2961.1 | 2961.1 | 2961.1 | 2961.1 | 2961.1 |
| 2.5° | 2961.1 | 2957.0 | 2957.0 | 2957.0 | 2961.1 |
| 5° | 2948.9 | 2944.9 | 2948.9 | 2948.9 | 2953.0 |
| 7.5° | 2928.7 | 2924.7 | 2932.7 | 2936.8 | 2940.8 |
| 10° | 2900.4 | 2900.4 | 2912.5 | 2920.6 | 2928.7 |
| 12.5° | 2864.0 | 2868.0 | 2880.2 | 2892.3 | 2904.4 |
| 15° | 2819.5 | 2823.5 | 2843.7 | 2859.9 | 2876.1 |
| 17.5° | 2762.8 | 2770.9 | 2795.2 | 2819.5 | 2835.7 |
| 20° | 2702.2 | 2714.3 | 2742.6 | 2775.0 | 2795.2 |
| 22.5° | 2633.4 | 2649.6 | 2681.9 | 2722.4 | 2742.6 |
| 25° | 2556.5 | 2572.7 | 2613.2 | 2657.7 | 2686.0 |
| 27.5° | 2475.6 | 2495.9 | 2540.4 | 2592.9 | 2625.3 |
| 30° | 2390.7 | 2410.9 | 2463.5 | 2520.1 | 2552.5 |
| 32.5° | 2297.7 | 2321.9 | 2378.6 | 2443.3 | 2475.6 |
| 35° | 2212.7 | 2228.9 | 2289.6 | 2358.3 | 2390.7 |
| 37.5° | 2115.6 | 2135.8 | 2192.5 | 2265.3 | 2301.7 |
| 40° | 2010.4 | 2030.7 | 2095.4 | 2168.2 | 2208.7 |
| 42.5° | 1909.3 | 1925.5 | 1990.2 | 2071.1 | 2107.5 |
| 45° | 1804.1 | 1820.3 | 1885.0 | 1965.9 | 2002.4 |
| 47.5° | 1694.9 | 1715.1 | 1775.8 | 1852.7 | 1889.1 |
| 50° | 1585.7 | 1601.9 | 1662.6 | 1735.4 | 1771.8 |
| 52.5° | 1472.4 | 1488.6 | 1545.3 | 1618.1 | 1654.5 |
| 55° | 1359.2 | 1379.4 | 1427.9 | 1496.7 | 1529.1 |
| 57.5° | 1245.9 | 1266.1 | 1310.6 | 1375.4 | 1403.7 |
| 60° | 1132.6 | 1148.8 | 1193.3 | 1250.0 | 1278.3 |
| 62.5° | 1011.3 | 1023.4 | 1067.9 | 1124.6 | 1148.8 |
| 65° | 894.0 | 910.2 | 946.6 | 987.0 | 1011.3 |
| 67.5° | 784.8 | 792.9 | 825.2 | 869.7 | 885.9 |
| 70° | 671.5 | 679.6 | 707.9 | 744.3 | 756.4 |
| 72.5° | 558.2 | 570.4 | 590.6 | 623.0 | 639.1 |
| 75° | 453.1 | 461.1 | 477.3 | 501.6 | 517.8 |
| 77.5° | 351.9 | 356.0 | 368.1 | 388.3 | 400.5 |
| 80° | 254.8 | 258.9 | 267.0 | 283.2 | 291.3 |
| 82.5° | 169.9 | 173.9 | 178.0 | 186.1 | 194.2 |
| 85° | 97.1 | 97.1 | 97.1 | 105.2 | 109.2 |
| 87.5° | 36.4 | 32.4 | 32.4 | 32.4 | 32.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)