

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: P383854

Luminaire Tested: **24ID-55-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383854
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: 24ID-55-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

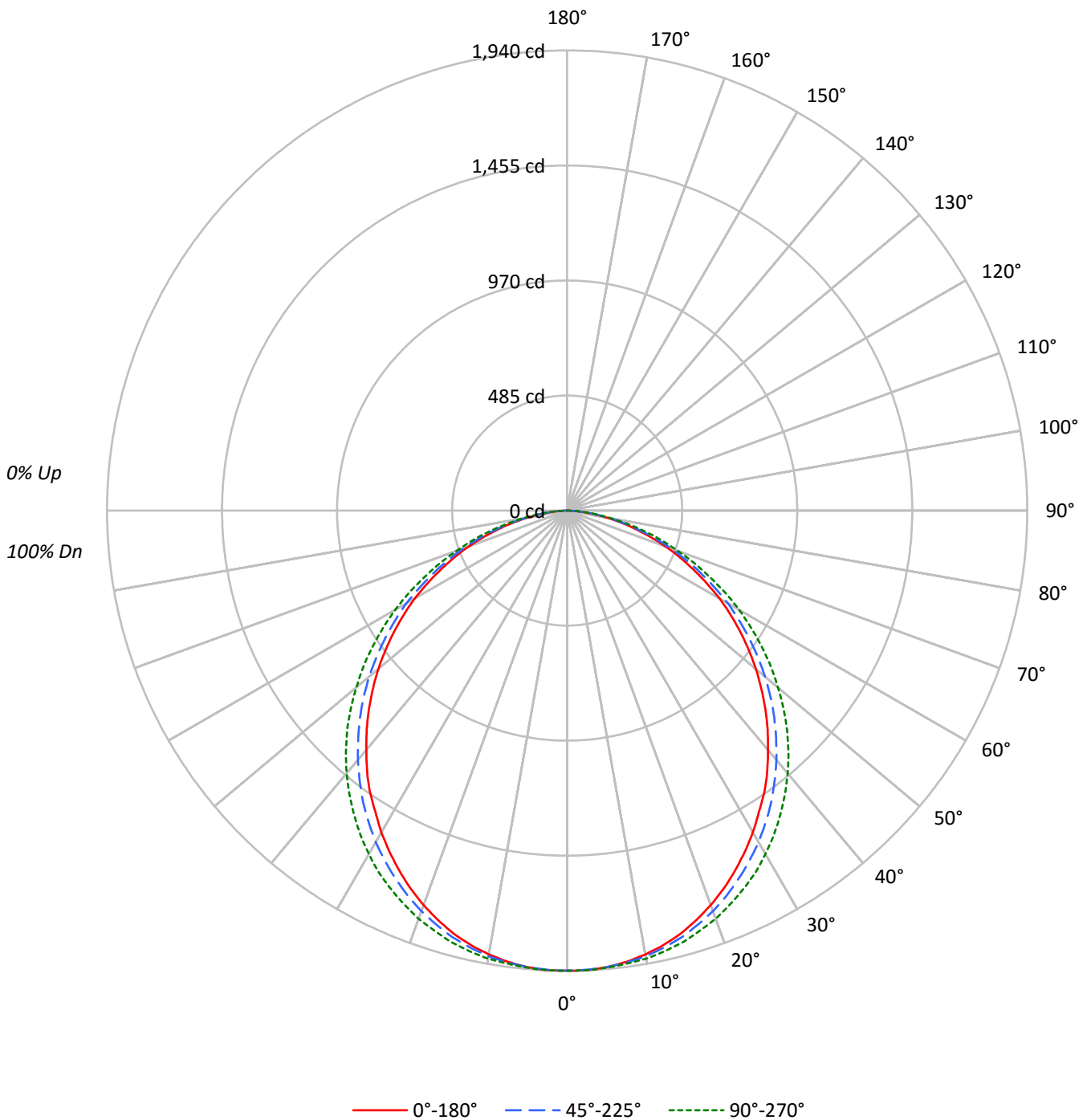
Lumens per Lamp: N/A
Luminaire Lumens: 5268.3 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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° | 2610 | 2610 | 2610 |
| 5° | 2609 | 2609 | 2613 |
| 10° | 2596 | 2607 | 2621 |
| 15° | 2573 | 2595 | 2625 |
| 20° | 2535 | 2573 | 2622 |
| 25° | 2486 | 2541 | 2612 |
| 30° | 2433 | 2507 | 2598 |
| 35° | 2381 | 2464 | 2573 |
| 40° | 2313 | 2411 | 2541 |
| 45° | 2249 | 2350 | 2496 |
| 50° | 2174 | 2280 | 2430 |
| 55° | 2089 | 2194 | 2350 |
| 60° | 1997 | 2104 | 2253 |
| 65° | 1865 | 1974 | 2109 |
| 70° | 1731 | 1825 | 1950 |
| 75° | 1543 | 1626 | 1763 |
| 80° | 1294 | 1355 | 1478 |
| 85° | 982 | 982 | 1105 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.6 | 3.5 |
| 10°-20° | 525.3 | 10.0 |
| 20°-30° | 789.9 | 15.0 |
| 30°-40° | 939.7 | 17.8 |
| 40°-50° | 956.1 | 18.1 |
| 50°-60° | 841.5 | 16.0 |
| 60°-70° | 617.3 | 11.7 |
| 70°-80° | 335.0 | 6.4 |
| 80°-90° | 80.0 | 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° | 1498.8 | 28.4 |
| 0°-40° | 2438.5 | 46.3 |
| 0°-60° | 4236.1 | 80.4 |
| 0°-90° | 5268.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5268.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1940 | 1940 | 1940 | 1940 | 1940 | |
| 5° | 1932 | 1929 | 1932 | 1932 | 1934 | 183 |
| 15° | 1847 | 1850 | 1863 | 1874 | 1884 | 520 |
| 25° | 1675 | 1685 | 1712 | 1741 | 1760 | 771 |
| 35° | 1450 | 1460 | 1500 | 1545 | 1566 | 905 |
| 45° | 1182 | 1192 | 1235 | 1288 | 1312 | 911 |
| 55° | 890 | 904 | 936 | 980 | 1002 | 796 |
| 65° | 586 | 596 | 620 | 647 | 662 | 582 |
| 75° | 297 | 302 | 313 | 329 | 339 | 315 |
| 85° | 64 | 64 | 64 | 69 | 72 | 77 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1939.8 | 1939.8 | 1939.8 | 1939.8 | 1939.8 |
| 2.5° | 1939.8 | 1937.2 | 1937.2 | 1937.2 | 1939.8 |
| 5° | 1931.9 | 1929.2 | 1931.9 | 1931.9 | 1934.5 |
| 7.5° | 1918.6 | 1916.0 | 1921.3 | 1923.9 | 1926.6 |
| 10° | 1900.1 | 1900.1 | 1908.0 | 1913.3 | 1918.6 |
| 12.5° | 1876.2 | 1878.9 | 1886.8 | 1894.8 | 1902.7 |
| 15° | 1847.1 | 1849.7 | 1863.0 | 1873.6 | 1884.2 |
| 17.5° | 1810.0 | 1815.3 | 1831.2 | 1847.1 | 1857.7 |
| 20° | 1770.2 | 1778.2 | 1796.7 | 1817.9 | 1831.2 |
| 22.5° | 1725.2 | 1735.8 | 1757.0 | 1783.5 | 1796.7 |
| 25° | 1674.8 | 1685.4 | 1711.9 | 1741.1 | 1759.6 |
| 27.5° | 1621.8 | 1635.1 | 1664.2 | 1698.7 | 1719.9 |
| 30° | 1566.2 | 1579.4 | 1613.9 | 1651.0 | 1672.2 |
| 32.5° | 1505.2 | 1521.1 | 1558.2 | 1600.6 | 1621.8 |
| 35° | 1449.6 | 1460.2 | 1499.9 | 1545.0 | 1566.2 |
| 37.5° | 1386.0 | 1399.2 | 1436.3 | 1484.0 | 1507.9 |
| 40° | 1317.1 | 1330.3 | 1372.7 | 1420.4 | 1446.9 |
| 42.5° | 1250.8 | 1261.4 | 1303.8 | 1356.8 | 1380.7 |
| 45° | 1181.9 | 1192.5 | 1234.9 | 1287.9 | 1311.8 |
| 47.5° | 1110.4 | 1123.6 | 1163.4 | 1213.7 | 1237.6 |
| 50° | 1038.8 | 1049.4 | 1089.2 | 1136.9 | 1160.7 |
| 52.5° | 964.6 | 975.2 | 1012.3 | 1060.0 | 1083.9 |
| 55° | 890.4 | 903.7 | 935.5 | 980.5 | 1001.7 |
| 57.5° | 816.2 | 829.5 | 858.6 | 901.0 | 919.6 |
| 60° | 742.0 | 752.6 | 781.8 | 818.9 | 837.4 |
| 62.5° | 662.5 | 670.5 | 699.6 | 736.7 | 752.6 |
| 65° | 585.7 | 596.3 | 620.1 | 646.6 | 662.5 |
| 67.5° | 514.1 | 519.4 | 540.6 | 569.8 | 580.4 |
| 70° | 439.9 | 445.2 | 463.8 | 487.6 | 495.6 |
| 72.5° | 365.7 | 373.7 | 386.9 | 408.1 | 418.7 |
| 75° | 296.8 | 302.1 | 312.7 | 328.6 | 339.2 |
| 77.5° | 230.6 | 233.2 | 241.2 | 254.4 | 262.4 |
| 80° | 167.0 | 169.6 | 174.9 | 185.5 | 190.8 |
| 82.5° | 111.3 | 114.0 | 116.6 | 121.9 | 127.2 |
| 85° | 63.6 | 63.6 | 63.6 | 68.9 | 71.6 |
| 87.5° | 23.9 | 21.2 | 21.2 | 21.2 | 21.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)