

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: P234537

Luminaire Tested: **CTA-F-0100-20L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-20L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5935.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Direct

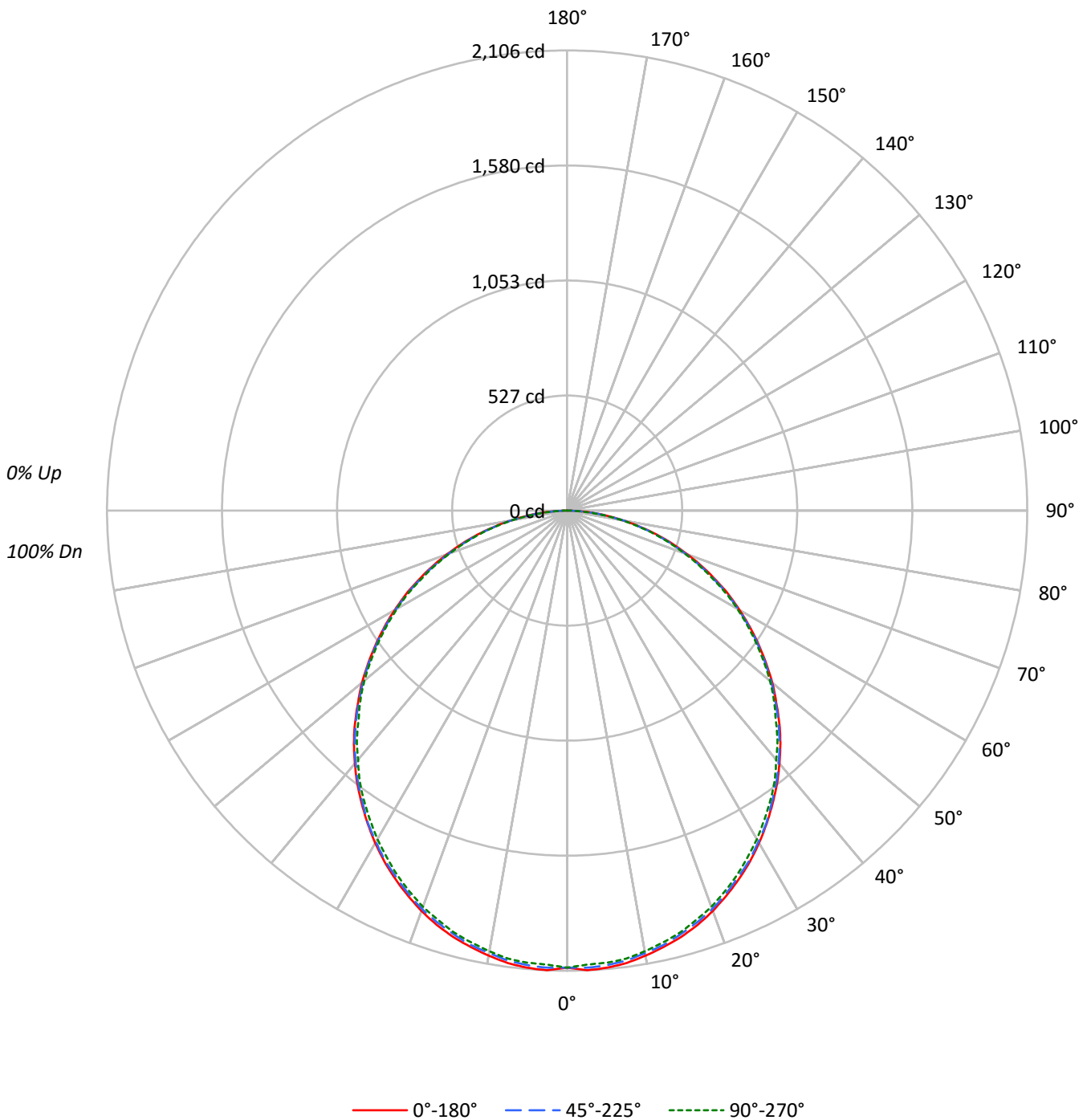
Input Watts (W): 57.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4502 | 4502 | 4502 |
| 5° | 4538 | 4513 | 4488 |
| 10° | 4521 | 4496 | 4477 |
| 15° | 4500 | 4474 | 4455 |
| 20° | 4467 | 4447 | 4421 |
| 25° | 4419 | 4399 | 4371 |
| 30° | 4366 | 4352 | 4316 |
| 35° | 4306 | 4290 | 4260 |
| 40° | 4247 | 4231 | 4183 |
| 45° | 4180 | 4162 | 4110 |
| 50° | 4106 | 4086 | 4057 |
| 55° | 4016 | 3995 | 3962 |
| 60° | 3924 | 3900 | 3875 |
| 65° | 3820 | 3776 | 3732 |
| 70° | 3686 | 3631 | 3595 |
| 75° | 3526 | 3455 | 3431 |
| 80° | 3254 | 3218 | 3146 |
| 85° | 2922 | 2707 | 2495 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 198.1 | 3.3 |
| 10°-20° | 565.6 | 9.5 |
| 20°-30° | 851.1 | 14.3 |
| 30°-40° | 1018.3 | 17.2 |
| 40°-50° | 1050.8 | 17.7 |
| 50°-60° | 950.1 | 16.0 |
| 60°-70° | 733.8 | 12.4 |
| 70°-80° | 440.7 | 7.4 |
| 80°-90° | 127.2 | 2.1 |
| 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° | 1614.7 | 27.2 |
| 0°-40° | 2633.0 | 44.4 |
| 0°-60° | 4633.9 | 78.1 |
| 0°-90° | 5935.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5935.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2091 | 2091 | 2091 | 2091 | 2091 | |
| 5° | 2100 | 2080 | 2088 | 2083 | 2077 | 199 |
| 15° | 2019 | 1999 | 2008 | 2005 | 1999 | 570 |
| 25° | 1861 | 1843 | 1852 | 1840 | 1840 | 857 |
| 35° | 1638 | 1627 | 1633 | 1618 | 1621 | 1026 |
| 45° | 1373 | 1362 | 1367 | 1353 | 1350 | 1059 |
| 55° | 1070 | 1067 | 1064 | 1053 | 1056 | 957 |
| 65° | 750 | 744 | 741 | 736 | 733 | 743 |
| 75° | 424 | 418 | 415 | 415 | 412 | 447 |
| 85° | 118 | 118 | 110 | 104 | 101 | 133 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P234537

CATALOG NUMBER: CTA-F-0100-20L830-UNV-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2091.4 | 2091.4 | 2091.4 | 2091.4 | 2091.4 |
| 2.5° | 2105.8 | 2085.6 | 2094.2 | 2091.4 | 2079.8 |
| 5° | 2100.0 | 2079.8 | 2088.5 | 2082.7 | 2076.9 |
| 7.5° | 2088.5 | 2068.3 | 2076.9 | 2071.2 | 2068.3 |
| 10° | 2068.3 | 2048.1 | 2056.7 | 2051.0 | 2048.1 |
| 12.5° | 2045.2 | 2025.0 | 2036.5 | 2030.8 | 2025.0 |
| 15° | 2019.2 | 1999.0 | 2007.7 | 2004.8 | 1999.0 |
| 17.5° | 1987.5 | 1967.3 | 1976.0 | 1973.1 | 1964.4 |
| 20° | 1950.0 | 1929.8 | 1941.3 | 1932.7 | 1929.8 |
| 22.5° | 1906.7 | 1889.4 | 1898.1 | 1886.5 | 1886.5 |
| 25° | 1860.6 | 1843.3 | 1851.9 | 1840.4 | 1840.4 |
| 27.5° | 1811.5 | 1794.2 | 1805.8 | 1791.3 | 1788.5 |
| 30° | 1756.7 | 1742.3 | 1751.0 | 1736.5 | 1736.5 |
| 32.5° | 1699.0 | 1687.5 | 1696.2 | 1678.8 | 1678.8 |
| 35° | 1638.5 | 1626.9 | 1632.7 | 1618.3 | 1621.2 |
| 37.5° | 1577.9 | 1566.3 | 1572.1 | 1557.7 | 1560.6 |
| 40° | 1511.5 | 1502.9 | 1505.8 | 1491.3 | 1488.5 |
| 42.5° | 1445.2 | 1433.7 | 1439.4 | 1425.0 | 1425.0 |
| 45° | 1373.1 | 1361.5 | 1367.3 | 1352.9 | 1350.0 |
| 47.5° | 1298.1 | 1295.2 | 1292.3 | 1280.8 | 1283.7 |
| 50° | 1226.0 | 1223.1 | 1220.2 | 1208.7 | 1211.5 |
| 52.5° | 1148.1 | 1145.2 | 1142.3 | 1130.8 | 1133.7 |
| 55° | 1070.2 | 1067.3 | 1064.4 | 1052.9 | 1055.8 |
| 57.5° | 992.3 | 989.4 | 986.5 | 977.9 | 977.9 |
| 60° | 911.5 | 908.7 | 905.8 | 900.0 | 900.0 |
| 62.5° | 833.7 | 830.8 | 825.0 | 819.2 | 819.2 |
| 65° | 750.0 | 744.2 | 741.3 | 735.6 | 732.7 |
| 67.5° | 669.2 | 660.6 | 657.7 | 654.8 | 651.9 |
| 70° | 585.6 | 579.8 | 576.9 | 574.0 | 571.2 |
| 72.5° | 504.8 | 499.0 | 496.2 | 496.2 | 490.4 |
| 75° | 424.0 | 418.3 | 415.4 | 415.4 | 412.5 |
| 77.5° | 340.4 | 343.3 | 337.5 | 337.5 | 331.7 |
| 80° | 262.5 | 262.5 | 259.6 | 256.7 | 253.8 |
| 82.5° | 187.5 | 190.4 | 184.6 | 181.7 | 176.0 |
| 85° | 118.3 | 118.3 | 109.6 | 103.8 | 101.0 |
| 87.5° | 51.9 | 49.0 | 43.3 | 37.5 | 31.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)