

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: P234539

Luminaire Tested: **CTA-F-0100-20L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234539
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-0100-20L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

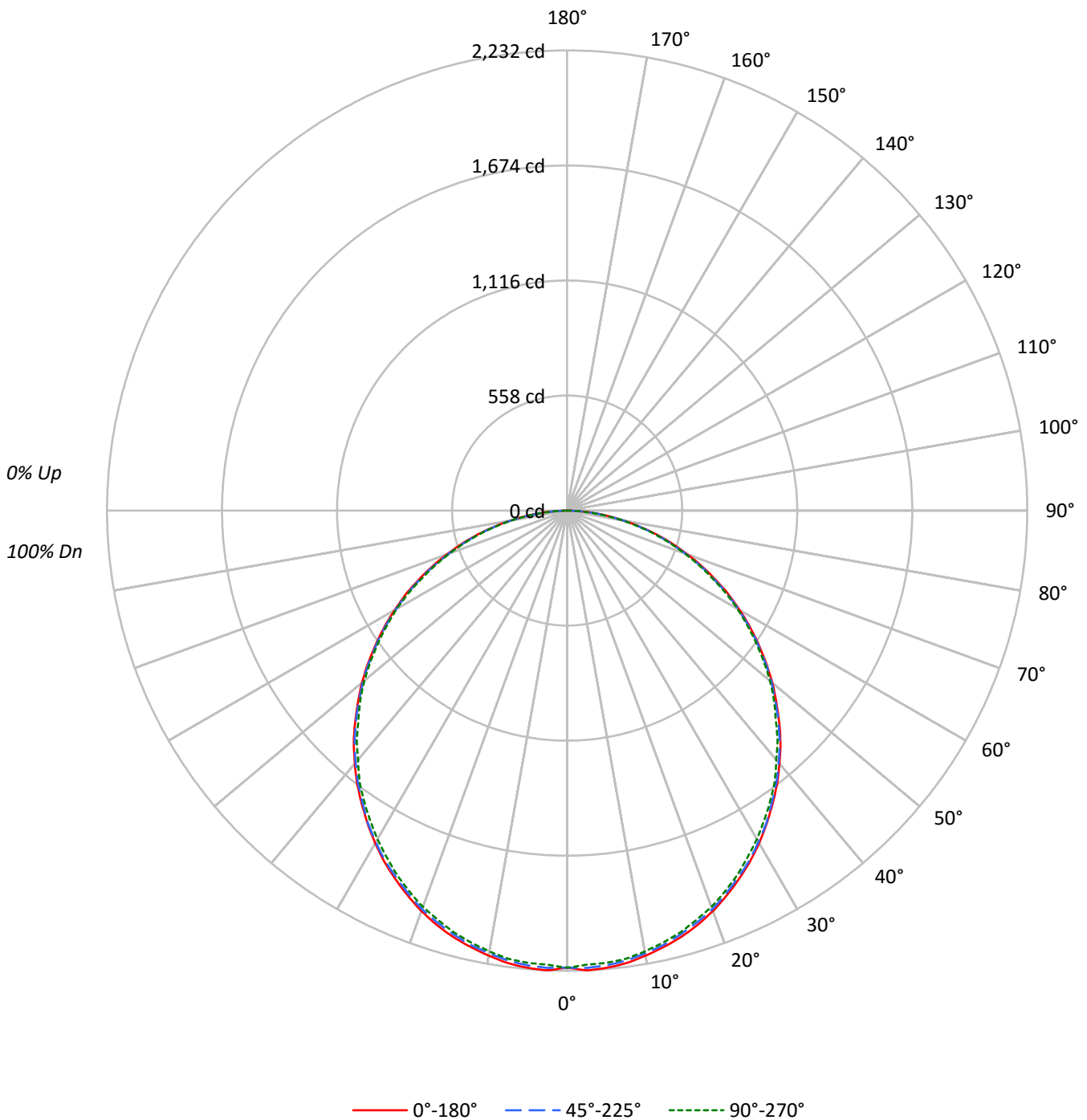
Lumens per Lamp: N/A
Luminaire Lumens: 6291.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Direct

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° | 4772 | 4772 | 4772 |
| 5° | 4810 | 4784 | 4757 |
| 10° | 4792 | 4765 | 4745 |
| 15° | 4770 | 4743 | 4722 |
| 20° | 4735 | 4714 | 4686 |
| 25° | 4684 | 4662 | 4633 |
| 30° | 4628 | 4613 | 4575 |
| 35° | 4564 | 4548 | 4516 |
| 40° | 4502 | 4485 | 4434 |
| 45° | 4431 | 4412 | 4356 |
| 50° | 4352 | 4331 | 4301 |
| 55° | 4257 | 4234 | 4200 |
| 60° | 4160 | 4133 | 4107 |
| 65° | 4049 | 4002 | 3956 |
| 70° | 3907 | 3849 | 3810 |
| 75° | 3739 | 3662 | 3637 |
| 80° | 3450 | 3411 | 3336 |
| 85° | 3097 | 2870 | 2643 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 209.9 | 3.3 |
| 10°-20° | 599.5 | 9.5 |
| 20°-30° | 902.1 | 14.3 |
| 30°-40° | 1079.4 | 17.2 |
| 40°-50° | 1113.8 | 17.7 |
| 50°-60° | 1007.1 | 16.0 |
| 60°-70° | 777.9 | 12.4 |
| 70°-80° | 467.1 | 7.4 |
| 80°-90° | 134.8 | 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° | 1711.6 | 27.2 |
| 0°-40° | 2791.0 | 44.4 |
| 0°-60° | 4911.9 | 78.1 |
| 0°-90° | 6291.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6291.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2217 | 2217 | 2217 | 2217 | 2217 | |
| 5° | 2226 | 2205 | 2214 | 2208 | 2202 | 211 |
| 15° | 2140 | 2119 | 2128 | 2125 | 2119 | 604 |
| 25° | 1972 | 1954 | 1963 | 1951 | 1951 | 909 |
| 35° | 1737 | 1724 | 1731 | 1715 | 1718 | 1087 |
| 45° | 1456 | 1443 | 1449 | 1434 | 1431 | 1122 |
| 55° | 1134 | 1131 | 1128 | 1116 | 1119 | 1015 |
| 65° | 795 | 789 | 786 | 780 | 777 | 787 |
| 75° | 450 | 443 | 440 | 440 | 437 | 473 |
| 85° | 125 | 125 | 116 | 110 | 107 | 141 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P234539

CATALOG NUMBER: CTA-F-0100-20L840-UNV-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 |
| 2.5° | 2232.1 | 2210.7 | 2219.9 | 2216.8 | 2204.6 |
| 5° | 2226.0 | 2204.6 | 2213.8 | 2207.7 | 2201.5 |
| 7.5° | 2213.8 | 2192.4 | 2201.5 | 2195.4 | 2192.4 |
| 10° | 2192.4 | 2171.0 | 2180.1 | 2174.0 | 2171.0 |
| 12.5° | 2167.9 | 2146.5 | 2158.7 | 2152.6 | 2146.5 |
| 15° | 2140.4 | 2119.0 | 2128.2 | 2125.1 | 2119.0 |
| 17.5° | 2106.8 | 2085.4 | 2094.5 | 2091.5 | 2082.3 |
| 20° | 2067.0 | 2045.6 | 2057.8 | 2048.7 | 2045.6 |
| 22.5° | 2021.1 | 2002.8 | 2012.0 | 1999.7 | 1999.7 |
| 25° | 1972.2 | 1953.9 | 1963.0 | 1950.8 | 1950.8 |
| 27.5° | 1920.2 | 1901.9 | 1914.1 | 1898.8 | 1895.8 |
| 30° | 1862.1 | 1846.8 | 1856.0 | 1840.7 | 1840.7 |
| 32.5° | 1801.0 | 1788.8 | 1797.9 | 1779.6 | 1779.6 |
| 35° | 1736.8 | 1724.5 | 1730.7 | 1715.4 | 1718.4 |
| 37.5° | 1672.6 | 1660.3 | 1666.4 | 1651.2 | 1654.2 |
| 40° | 1602.2 | 1593.1 | 1596.1 | 1580.8 | 1577.8 |
| 42.5° | 1531.9 | 1519.7 | 1525.8 | 1510.5 | 1510.5 |
| 45° | 1455.5 | 1443.2 | 1449.3 | 1434.1 | 1431.0 |
| 47.5° | 1376.0 | 1372.9 | 1369.8 | 1357.6 | 1360.7 |
| 50° | 1299.5 | 1296.5 | 1293.4 | 1281.2 | 1284.2 |
| 52.5° | 1217.0 | 1213.9 | 1210.8 | 1198.6 | 1201.7 |
| 55° | 1134.4 | 1131.3 | 1128.3 | 1116.1 | 1119.1 |
| 57.5° | 1051.8 | 1048.8 | 1045.7 | 1036.6 | 1036.6 |
| 60° | 966.2 | 963.2 | 960.1 | 954.0 | 954.0 |
| 62.5° | 883.7 | 880.6 | 874.5 | 868.4 | 868.4 |
| 65° | 795.0 | 788.9 | 785.8 | 779.7 | 776.7 |
| 67.5° | 709.4 | 700.2 | 697.2 | 694.1 | 691.0 |
| 70° | 620.7 | 614.6 | 611.5 | 608.5 | 605.4 |
| 72.5° | 535.1 | 529.0 | 525.9 | 525.9 | 519.8 |
| 75° | 449.5 | 443.4 | 440.3 | 440.3 | 437.3 |
| 77.5° | 360.8 | 363.9 | 357.8 | 357.8 | 351.6 |
| 80° | 278.3 | 278.3 | 275.2 | 272.1 | 269.1 |
| 82.5° | 198.8 | 201.8 | 195.7 | 192.6 | 186.5 |
| 85° | 125.4 | 125.4 | 116.2 | 110.1 | 107.0 |
| 87.5° | 55.0 | 52.0 | 45.9 | 39.8 | 33.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)