

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: P234556

Luminaire Tested: **CTA-F-0100-50L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-50L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.3 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

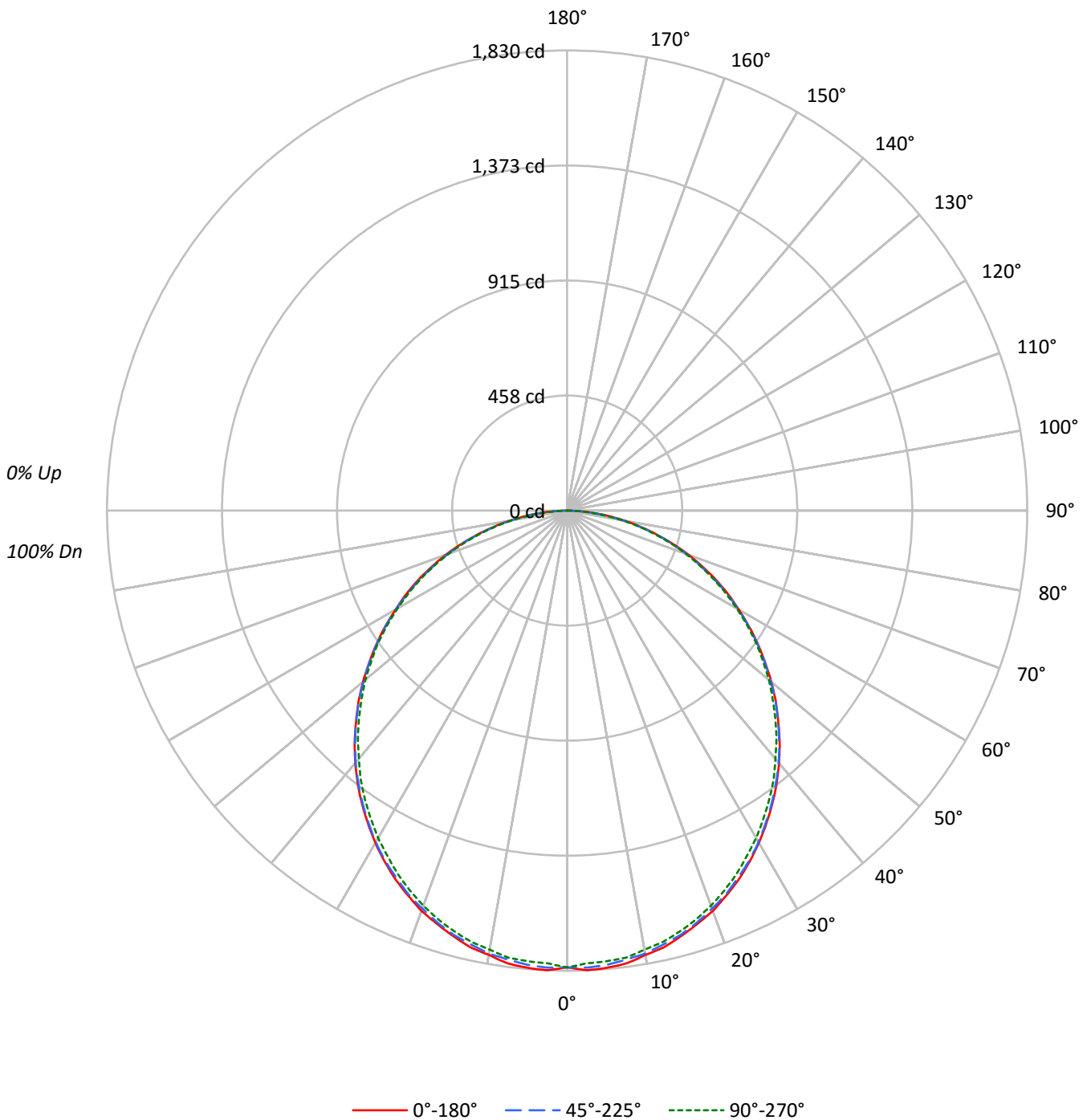
Input Watts (W): 63.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 49 |
| 5 | 75 | 62 | 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 | 44 | 37 | 32 | 43 | 36 | 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° | 11729 | 11729 | 11729 |
| 5° | 11831 | 11756 | 11662 |
| 10° | 11765 | 11728 | 11627 |
| 15° | 11713 | 11674 | 11584 |
| 20° | 11643 | 11577 | 11491 |
| 25° | 11524 | 11469 | 11359 |
| 30° | 11379 | 11350 | 11214 |
| 35° | 11219 | 11188 | 11052 |
| 40° | 11048 | 11032 | 10862 |
| 45° | 10845 | 10836 | 10696 |
| 50° | 10645 | 10616 | 10520 |
| 55° | 10426 | 10393 | 10328 |
| 60° | 10184 | 10158 | 10059 |
| 65° | 10006 | 9859 | 9786 |
| 70° | 9696 | 9531 | 9441 |
| 75° | 9237 | 9140 | 8972 |
| 80° | 8617 | 8438 | 8189 |
| 85° | 7550 | 7054 | 6698 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.7 | 3.3 |
| 10°-20° | 490.4 | 9.5 |
| 20°-30° | 738.3 | 14.3 |
| 30°-40° | 882.9 | 17.1 |
| 40°-50° | 910.5 | 17.7 |
| 50°-60° | 823.4 | 16.0 |
| 60°-70° | 639.2 | 12.4 |
| 70°-80° | 385.4 | 7.5 |
| 80°-90° | 110.4 | 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° | 1400.5 | 27.2 |
| 0°-40° | 2283.4 | 44.3 |
| 0°-60° | 4017.3 | 78.0 |
| 0°-90° | 5152.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5152.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1816 | 1816 | 1816 | 1816 | 1816 | |
| 5° | 1825 | 1800 | 1814 | 1805 | 1799 | 173 |
| 15° | 1752 | 1729 | 1746 | 1739 | 1733 | 494 |
| 25° | 1617 | 1596 | 1610 | 1596 | 1594 | 745 |
| 35° | 1423 | 1408 | 1419 | 1405 | 1402 | 890 |
| 45° | 1188 | 1183 | 1186 | 1174 | 1171 | 917 |
| 55° | 926 | 926 | 923 | 916 | 917 | 828 |
| 65° | 655 | 649 | 645 | 643 | 640 | 646 |
| 75° | 370 | 368 | 366 | 362 | 360 | 391 |
| 85° | 102 | 102 | 95 | 90 | 90 | 117 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P234556

CATALOG NUMBER: CTA-F-0100-50L830-UNV-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1816.3 | 1816.3 | 1816.3 | 1816.3 | 1816.3 |
| 2.5° | 1829.8 | 1804.8 | 1819.2 | 1813.5 | 1801.9 |
| 5° | 1825.0 | 1800.0 | 1813.5 | 1804.8 | 1799.0 |
| 7.5° | 1816.3 | 1787.5 | 1801.0 | 1796.2 | 1793.3 |
| 10° | 1794.2 | 1773.1 | 1788.5 | 1778.8 | 1773.1 |
| 12.5° | 1778.8 | 1751.0 | 1767.3 | 1760.6 | 1756.7 |
| 15° | 1751.9 | 1728.8 | 1746.2 | 1739.4 | 1732.7 |
| 17.5° | 1723.1 | 1701.0 | 1717.3 | 1710.6 | 1704.8 |
| 20° | 1694.2 | 1670.2 | 1684.6 | 1676.9 | 1672.1 |
| 22.5° | 1655.8 | 1634.6 | 1651.0 | 1637.5 | 1634.6 |
| 25° | 1617.3 | 1596.2 | 1609.6 | 1596.2 | 1594.2 |
| 27.5° | 1573.1 | 1554.8 | 1569.2 | 1555.8 | 1548.1 |
| 30° | 1526.0 | 1508.7 | 1522.1 | 1505.8 | 1503.8 |
| 32.5° | 1475.0 | 1460.6 | 1471.2 | 1459.6 | 1452.9 |
| 35° | 1423.1 | 1407.7 | 1419.2 | 1404.8 | 1401.9 |
| 37.5° | 1368.3 | 1354.8 | 1364.4 | 1351.0 | 1348.1 |
| 40° | 1310.6 | 1299.0 | 1308.7 | 1293.3 | 1288.5 |
| 42.5° | 1251.0 | 1242.3 | 1248.1 | 1233.7 | 1231.7 |
| 45° | 1187.5 | 1182.7 | 1186.5 | 1174.0 | 1171.2 |
| 47.5° | 1126.0 | 1119.2 | 1124.0 | 1109.6 | 1108.7 |
| 50° | 1059.6 | 1056.7 | 1056.7 | 1047.1 | 1047.1 |
| 52.5° | 992.3 | 990.4 | 991.3 | 980.8 | 980.8 |
| 55° | 926.0 | 926.0 | 923.1 | 916.3 | 917.3 |
| 57.5° | 857.7 | 855.8 | 855.8 | 848.1 | 848.1 |
| 60° | 788.5 | 788.5 | 786.5 | 779.8 | 778.8 |
| 62.5° | 723.1 | 720.2 | 716.3 | 711.5 | 710.6 |
| 65° | 654.8 | 649.0 | 645.2 | 643.3 | 640.4 |
| 67.5° | 582.7 | 578.8 | 574.0 | 572.1 | 571.2 |
| 70° | 513.5 | 507.7 | 504.8 | 501.0 | 500.0 |
| 72.5° | 441.3 | 437.5 | 434.6 | 431.7 | 430.8 |
| 75° | 370.2 | 368.3 | 366.3 | 362.5 | 359.6 |
| 77.5° | 300.0 | 298.1 | 294.2 | 292.3 | 289.4 |
| 80° | 231.7 | 229.8 | 226.9 | 224.0 | 220.2 |
| 82.5° | 165.4 | 164.4 | 159.6 | 155.8 | 151.9 |
| 85° | 101.9 | 101.9 | 95.2 | 90.4 | 90.4 |
| 87.5° | 45.2 | 42.3 | 36.5 | 31.7 | 30.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)