

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563922

Luminaire Tested: **SQ4-PR1-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563922
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

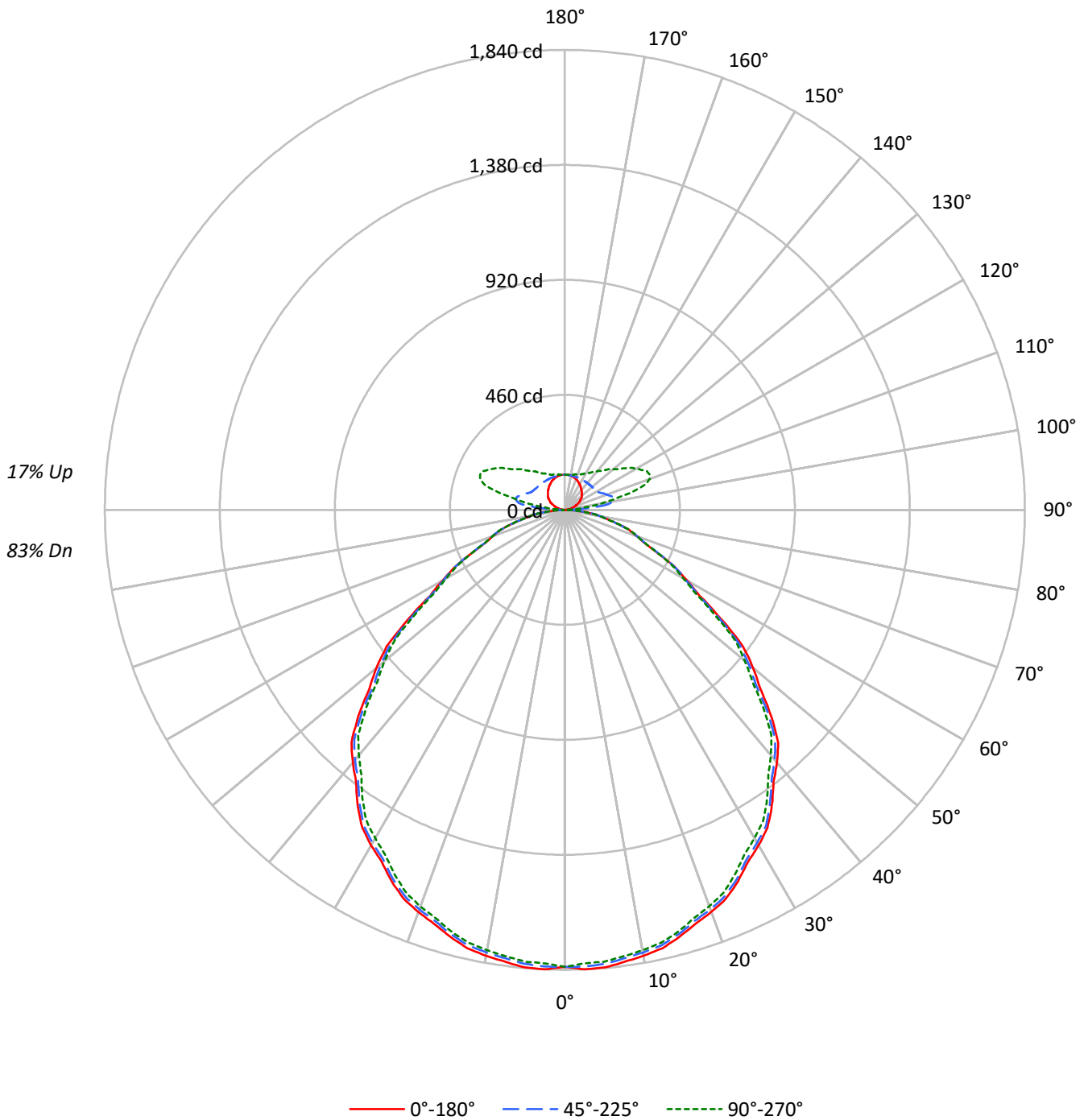
Lumens per Lamp: N/A
Luminaire Lumens: 5483.6 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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: 24 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 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 83 |
| 1 | 106 | 101 | 97 | 94 | 101 | 97 | 94 | 91 | 90 | 87 | 85 | 84 | 81 | 79 | 77 | 76 | 74 | 71 |
| 2 | 97 | 89 | 83 | 78 | 93 | 86 | 80 | 75 | 80 | 75 | 71 | 74 | 70 | 67 | 69 | 66 | 63 | 60 |
| 3 | 89 | 79 | 71 | 65 | 85 | 76 | 69 | 64 | 71 | 65 | 60 | 66 | 61 | 57 | 61 | 58 | 54 | 52 |
| 4 | 81 | 70 | 62 | 56 | 78 | 68 | 60 | 55 | 63 | 57 | 52 | 59 | 54 | 50 | 55 | 51 | 47 | 45 |
| 5 | 75 | 63 | 55 | 48 | 72 | 61 | 53 | 47 | 57 | 50 | 45 | 53 | 48 | 43 | 50 | 45 | 41 | 39 |
| 6 | 69 | 57 | 48 | 42 | 66 | 55 | 47 | 42 | 52 | 45 | 40 | 48 | 43 | 38 | 45 | 41 | 37 | 34 |
| 7 | 64 | 52 | 43 | 37 | 62 | 50 | 42 | 37 | 47 | 40 | 35 | 44 | 38 | 34 | 42 | 37 | 33 | 31 |
| 8 | 60 | 47 | 39 | 33 | 57 | 46 | 38 | 33 | 43 | 36 | 32 | 41 | 35 | 31 | 38 | 33 | 29 | 27 |
| 9 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 40 | 33 | 29 | 37 | 32 | 28 | 35 | 30 | 27 | 25 |
| 10 | 52 | 40 | 32 | 27 | 50 | 39 | 32 | 27 | 37 | 30 | 26 | 35 | 29 | 25 | 33 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16870 | 16870 | 16870 |
| 5° | 17023 | 16891 | 16803 |
| 10° | 16968 | 16850 | 16761 |
| 15° | 16894 | 16788 | 16698 |
| 20° | 16809 | 16701 | 16577 |
| 25° | 16690 | 16578 | 16386 |
| 30° | 16511 | 16393 | 16158 |
| 35° | 16266 | 16124 | 15895 |
| 40° | 15896 | 15725 | 15440 |
| 45° | 15248 | 14980 | 14672 |
| 50° | 14107 | 13766 | 13495 |
| 55° | 12312 | 12033 | 11781 |
| 60° | 10376 | 10287 | 10084 |
| 65° | 8975 | 9007 | 8940 |
| 70° | 8241 | 8284 | 8284 |
| 75° | 7917 | 7917 | 7971 |
| 80° | 7449 | 7529 | 7449 |
| 85° | 6002 | 6669 | 6669 |



TEST NUMBER: P563922

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 172.9 | 3.2 |
| 10°-20° | 494.7 | 9.0 |
| 20°-30° | 746.2 | 13.6 |
| 30°-40° | 889.1 | 16.2 |
| 40°-50° | 876.6 | 16.0 |
| 50°-60° | 669.9 | 12.2 |
| 60°-70° | 414.6 | 7.6 |
| 70°-80° | 235.5 | 4.3 |
| 80°-90° | 72.4 | 1.3 |
| 90°-100° | 68.6 | 1.3 |
| 100°-110° | 180.2 | 3.3 |
| 110°-120° | 186.9 | 3.4 |
| 120°-130° | 149.9 | 2.7 |
| 130°-140° | 117.6 | 2.1 |
| 140°-150° | 90.3 | 1.6 |
| 150°-160° | 65.0 | 1.2 |
| 160°-170° | 39.8 | 0.7 |
| 170°-180° | 13.4 | 0.2 |
| 0°-30° | 1413.8 | 25.8 |
| 0°-40° | 2302.9 | 42.0 |
| 0°-60° | 3849.4 | 70.2 |
| 0°-90° | 4571.9 | 83.4 |
| 90°-120° | 435.7 | 7.9 |
| 90°-150° | 793.5 | 14.5 |
| 90°-180° | 912.0 | 16.6 |
| 0°-180° | 5483.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1828 | 1828 | 1828 | 1828 | 1828 | |
| 5° | 1838 | 1818 | 1824 | 1817 | 1814 | 174 |
| 15° | 1769 | 1750 | 1758 | 1751 | 1748 | 499 |
| 25° | 1640 | 1620 | 1628 | 1611 | 1610 | 755 |
| 35° | 1444 | 1427 | 1432 | 1413 | 1411 | 901 |
| 45° | 1169 | 1153 | 1148 | 1128 | 1124 | 895 |
| 55° | 765 | 753 | 748 | 735 | 732 | 686 |
| 65° | 411 | 408 | 413 | 410 | 410 | 416 |
| 75° | 222 | 222 | 222 | 224 | 224 | 235 |
| 85° | 57 | 60 | 63 | 63 | 63 | 66 |
| 90° | 1 | 3 | 7 | 4 | 4 | 3 |
| 95° | 9 | 36 | 118 | 61 | 42 | 10 |
| 105° | 32 | 49 | 199 | 302 | 282 | 34 |
| 115° | 58 | 70 | 160 | 318 | 363 | 57 |
| 125° | 80 | 90 | 145 | 245 | 289 | 71 |
| 135° | 96 | 105 | 141 | 198 | 224 | 74 |
| 145° | 111 | 118 | 139 | 169 | 182 | 69 |
| 155° | 125 | 129 | 139 | 152 | 157 | 58 |
| 165° | 135 | 137 | 139 | 144 | 146 | 38 |
| 175° | 141 | 141 | 140 | 142 | 142 | 13 |
| 180° | 141 | 141 | 141 | 141 | 141 | |

TEST NUMBER: P563922

CATALOG NUMBER: SQ4-PR1-025U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1828.5 | 1828.5 | 1828.5 | 1828.5 | 1828.5 |
| 2.5° | 1839.9 | 1823.8 | 1828.5 | 1824.5 | 1815.9 |
| 5° | 1838.0 | 1818.0 | 1823.8 | 1817.4 | 1814.3 |
| 7.5° | 1823.8 | 1804.1 | 1809.9 | 1803.6 | 1801.7 |
| 10° | 1811.2 | 1792.7 | 1798.6 | 1792.2 | 1789.1 |
| 12.5° | 1797.3 | 1777.6 | 1784.7 | 1777.1 | 1774.0 |
| 15° | 1768.7 | 1750.2 | 1757.6 | 1751.3 | 1748.2 |
| 17.5° | 1737.2 | 1717.5 | 1724.9 | 1717.6 | 1713.6 |
| 20° | 1712.0 | 1693.5 | 1701.0 | 1689.9 | 1688.4 |
| 22.5° | 1684.3 | 1665.8 | 1673.2 | 1658.4 | 1658.1 |
| 25° | 1639.5 | 1619.5 | 1628.5 | 1611.1 | 1609.6 |
| 27.5° | 1586.3 | 1567.8 | 1575.3 | 1557.6 | 1555.7 |
| 30° | 1549.8 | 1531.3 | 1538.7 | 1519.8 | 1516.7 |
| 32.5° | 1508.2 | 1490.9 | 1497.2 | 1478.2 | 1476.4 |
| 35° | 1444.2 | 1427.3 | 1431.6 | 1412.7 | 1411.2 |
| 37.5° | 1371.5 | 1356.1 | 1358.6 | 1337.7 | 1336.2 |
| 40° | 1319.8 | 1304.4 | 1305.6 | 1283.6 | 1282.0 |
| 42.5° | 1263.1 | 1247.7 | 1246.4 | 1224.3 | 1222.8 |
| 45° | 1168.6 | 1153.2 | 1148.1 | 1127.6 | 1124.5 |
| 47.5° | 1060.9 | 1045.5 | 1036.0 | 1019.3 | 1017.1 |
| 50° | 982.8 | 967.4 | 959.1 | 944.9 | 940.2 |
| 52.5° | 898.4 | 883.0 | 876.0 | 863.0 | 858.4 |
| 55° | 765.4 | 753.1 | 748.1 | 735.4 | 732.4 |
| 57.5° | 639.1 | 630.8 | 629.4 | 617.0 | 615.8 |
| 60° | 562.3 | 557.6 | 557.5 | 546.5 | 546.5 |
| 62.5° | 496.7 | 493.4 | 495.8 | 488.5 | 487.3 |
| 65° | 411.1 | 408.0 | 412.6 | 409.5 | 409.5 |
| 67.5° | 343.3 | 343.3 | 346.2 | 344.9 | 344.9 |
| 70° | 305.5 | 305.5 | 307.1 | 307.1 | 307.1 |
| 72.5° | 271.5 | 270.3 | 274.4 | 274.3 | 273.1 |
| 75° | 222.1 | 222.1 | 222.1 | 223.6 | 223.6 |
| 77.5° | 172.9 | 173.2 | 174.5 | 174.2 | 172.9 |
| 80° | 140.2 | 141.7 | 141.7 | 140.2 | 140.2 |
| 82.5° | 107.4 | 109.0 | 109.0 | 108.6 | 107.4 |
| 85° | 56.7 | 59.8 | 63.0 | 63.0 | 63.0 |
| 87.5° | 16.6 | 21.8 | 26.6 | 25.9 | 24.7 |
| 90° | 0.9 | 2.7 | 7.2 | 3.6 | 3.6 |
| 92.5° | 3.8 | 18.2 | 40.4 | 17.9 | 11.5 |
| 95° | 9.0 | 35.5 | 118.1 | 60.9 | 41.5 |
| 97.5° | 15.7 | 39.0 | 176.7 | 140.5 | 103.5 |
| 100° | 20.7 | 41.9 | 194.8 | 197.4 | 153.3 |
| 102.5° | 25.1 | 44.8 | 199.8 | 245.8 | 208.1 |
| 105° | 32.5 | 49.2 | 199.3 | 302.5 | 282.2 |
| 107.5° | 40.0 | 55.6 | 187.9 | 331.9 | 336.9 |
| 110° | 45.1 | 59.2 | 178.5 | 339.5 | 360.7 |

TEST NUMBER: P563922

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 50.1 | 63.5 | 169.9 | 334.7 | 367.2 |
| 115° | 57.7 | 70.1 | 159.6 | 318.4 | 363.4 |
| 117.5° | 65.1 | 76.4 | 152.6 | 295.8 | 345.7 |
| 120° | 69.4 | 80.0 | 149.7 | 280.6 | 329.1 |
| 122.5° | 73.8 | 84.3 | 147.5 | 265.5 | 313.2 |
| 125° | 80.3 | 89.9 | 145.2 | 245.4 | 289.4 |
| 127.5° | 85.5 | 95.4 | 143.2 | 229.2 | 266.4 |
| 130° | 88.4 | 98.9 | 142.5 | 219.0 | 253.4 |
| 132.5° | 91.3 | 101.8 | 141.7 | 210.3 | 241.1 |
| 135° | 95.6 | 105.3 | 140.7 | 198.1 | 224.5 |
| 137.5° | 100.1 | 109.6 | 140.5 | 188.9 | 210.6 |
| 140° | 103.7 | 112.5 | 139.8 | 181.7 | 202.0 |
| 142.5° | 106.6 | 114.7 | 139.8 | 176.6 | 194.0 |
| 145° | 110.9 | 118.0 | 138.9 | 168.9 | 182.1 |
| 147.5° | 115.2 | 122.1 | 138.9 | 162.6 | 173.5 |
| 150° | 118.1 | 124.3 | 138.9 | 158.9 | 167.7 |
| 152.5° | 121.0 | 125.8 | 138.9 | 156.0 | 162.7 |
| 155° | 125.3 | 128.9 | 138.9 | 152.5 | 156.9 |
| 157.5° | 128.6 | 131.9 | 138.9 | 149.4 | 152.6 |
| 160° | 130.7 | 133.4 | 138.9 | 147.9 | 149.7 |
| 162.5° | 132.9 | 134.8 | 138.9 | 146.5 | 148.2 |
| 165° | 135.3 | 137.0 | 138.9 | 144.3 | 146.1 |
| 167.5° | 137.4 | 138.3 | 139.8 | 143.4 | 144.1 |
| 170° | 138.9 | 139.7 | 139.8 | 143.4 | 143.4 |
| 172.5° | 139.6 | 139.8 | 139.8 | 142.6 | 141.9 |
| 175° | 140.7 | 140.7 | 139.8 | 141.6 | 141.6 |
| 177.5° | 140.7 | 140.7 | 139.9 | 141.4 | 140.7 |
| 180° | 140.7 | 140.7 | 140.7 | 140.7 | 140.7 |

(END OF REPORT)