

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: P523820

Luminaire Tested: **SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523820  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5312.1 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

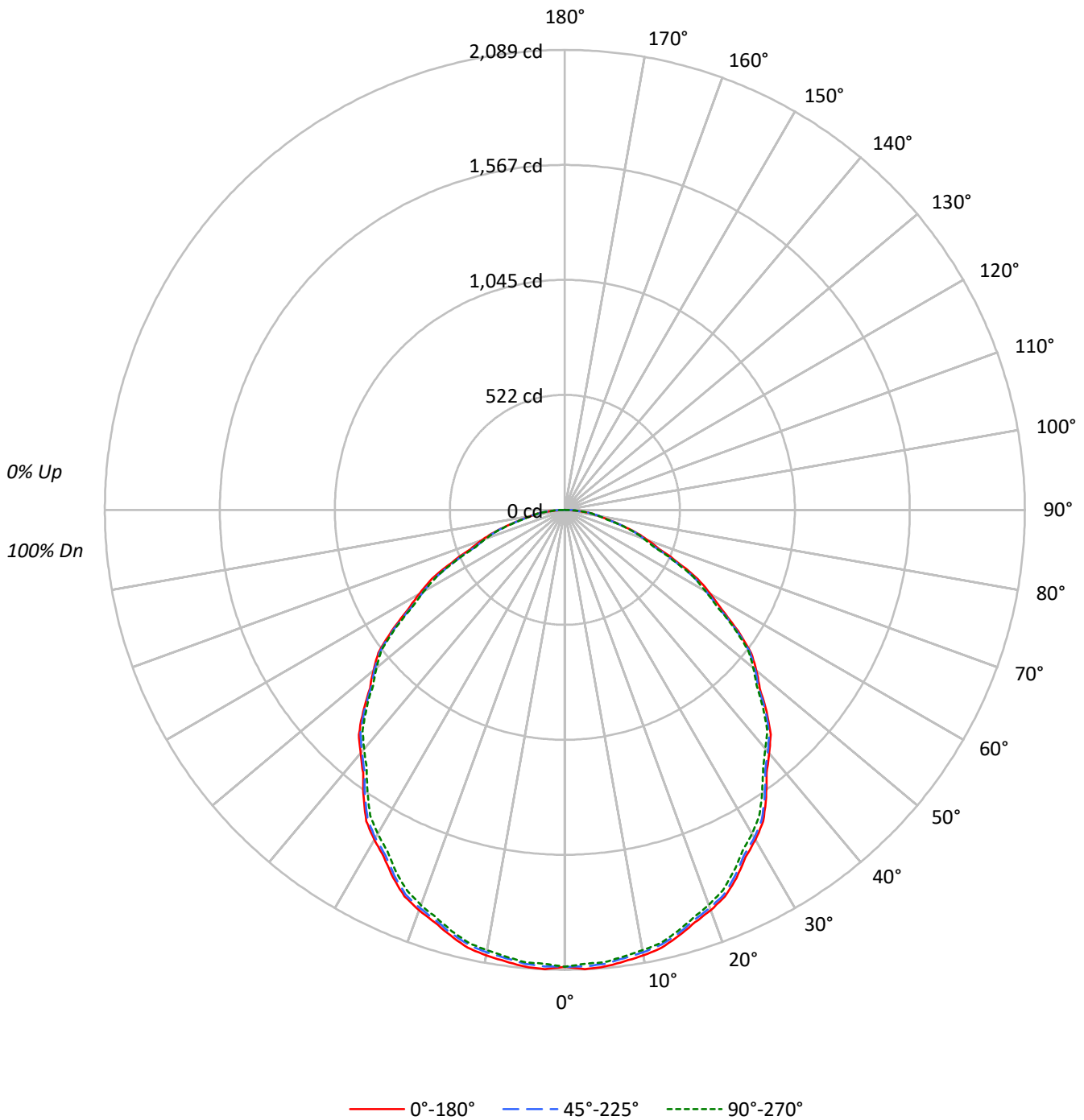
Input Watts (W): 55.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P523820

CATALOG NUMBER: SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523820

CATALOG NUMBER: SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (5700K)

**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  | 50  | 30 | 10 | 0  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |    | 72  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |    | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |    | 53  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |    | 46  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |    | 40  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |    | 36  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |    | 32  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |    |    |    | 29  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 19149 | 19149 | 19149 |
| 5°  | 19290 | 19171 | 19104 |
| 10° | 19257 | 19120 | 19035 |
| 15° | 19129 | 19025 | 18921 |
| 20° | 19002 | 18895 | 18752 |
| 25° | 18777 | 18647 | 18461 |
| 30° | 18429 | 18333 | 18099 |
| 35° | 17947 | 17824 | 17599 |
| 40° | 17373 | 17264 | 17066 |
| 45° | 16898 | 16779 | 16614 |
| 50° | 16293 | 16188 | 16031 |
| 55° | 15448 | 15244 | 15127 |
| 60° | 14064 | 13660 | 13594 |
| 65° | 12389 | 11874 | 11835 |
| 70° | 10696 | 10256 | 10256 |
| 75° | 9208  | 9079  | 8947  |
| 80° | 8119  | 8214  | 8023  |
| 85° | 6352  | 6934  | 6934  |



TEST NUMBER: P523820

CATALOG NUMBER: SQ4-PP3-OU-125D-92765-1D-UNV-STD-W-4 (5700K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.3  | 3.7       |
| 10°-20°   | 560.4  | 10.5      |
| 20°-30°   | 839.4  | 15.8      |
| 30°-40°   | 984.5  | 18.5      |
| 40°-50°   | 987.6  | 18.6      |
| 50°-60°   | 842.5  | 15.9      |
| 60°-70°   | 549.5  | 10.3      |
| 70°-80°   | 275.7  | 5.2       |
| 80°-90°   | 76.3   | 1.4       |
| 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°    | 1596.0 | 30.0      |
| 0°-40°    | 2580.5 | 48.6      |
| 0°-60°    | 4410.6 | 83.0      |
| 0°-90°    | 5312.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5312.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2076 | 2076  | 2076 | 2076  | 2076 |      |
| 5°  | 2083 | 2063  | 2070 | 2063  | 2063 | 198  |
| 15° | 2003 | 1983  | 1992 | 1984  | 1981 | 565  |
| 25° | 1844 | 1823  | 1832 | 1815  | 1814 | 848  |
| 35° | 1593 | 1577  | 1582 | 1564  | 1562 | 995  |
| 45° | 1295 | 1286  | 1286 | 1273  | 1273 | 997  |
| 55° | 960  | 957   | 948  | 942   | 940  | 854  |
| 65° | 568  | 557   | 544  | 540   | 542  | 566  |
| 75° | 258  | 258   | 255  | 253   | 251  | 280  |
| 85° | 60   | 65    | 66   | 66    | 66   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P523820

CATALOG NUMBER: SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2075.5 | 2075.5 | 2075.5 | 2075.5 | 2075.5 |
| 2.5°  | 2088.6 | 2071.5 | 2075.5 | 2072.4 | 2063.8 |
| 5°    | 2082.8 | 2063.2 | 2070.0 | 2062.7 | 2062.7 |
| 7.5°  | 2068.6 | 2047.2 | 2054.0 | 2046.7 | 2046.4 |
| 10°   | 2055.5 | 2034.1 | 2040.9 | 2033.6 | 2031.8 |
| 12.5° | 2036.5 | 2015.2 | 2023.5 | 2014.7 | 2014.4 |
| 15°   | 2002.7 | 1983.2 | 1991.8 | 1984.4 | 1980.9 |
| 17.5° | 1964.5 | 1943.2 | 1953.6 | 1943.4 | 1942.0 |
| 20°   | 1935.4 | 1914.1 | 1924.5 | 1909.9 | 1909.9 |
| 22.5° | 1900.5 | 1879.1 | 1891.0 | 1872.1 | 1872.1 |
| 25°   | 1844.5 | 1823.1 | 1831.7 | 1815.3 | 1813.5 |
| 27.5° | 1777.9 | 1756.9 | 1765.9 | 1747.3 | 1747.0 |
| 30°   | 1729.9 | 1710.3 | 1720.8 | 1700.7 | 1698.9 |
| 32.5° | 1677.5 | 1659.3 | 1666.9 | 1646.9 | 1645.1 |
| 35°   | 1593.4 | 1577.4 | 1582.5 | 1564.3 | 1562.5 |
| 37.5° | 1505.0 | 1488.7 | 1494.5 | 1478.8 | 1478.1 |
| 40°   | 1442.5 | 1431.8 | 1433.4 | 1420.6 | 1417.0 |
| 42.5° | 1384.3 | 1372.2 | 1373.7 | 1361.0 | 1360.2 |
| 45°   | 1295.1 | 1286.2 | 1286.0 | 1273.3 | 1273.3 |
| 47.5° | 1200.5 | 1193.8 | 1191.8 | 1181.2 | 1180.9 |
| 50°   | 1135.1 | 1129.7 | 1127.8 | 1118.6 | 1116.9 |
| 52.5° | 1066.7 | 1064.2 | 1057.9 | 1050.3 | 1049.9 |
| 55°   | 960.4  | 956.9  | 947.7  | 942.2  | 940.4  |
| 57.5° | 845.1  | 838.0  | 827.6  | 819.7  | 821.1  |
| 60°   | 762.2  | 755.0  | 740.3  | 736.7  | 736.7  |
| 62.5° | 682.1  | 673.6  | 658.8  | 653.8  | 656.7  |
| 65°   | 567.5  | 556.9  | 543.9  | 540.3  | 542.1  |
| 67.5° | 463.5  | 453.9  | 439.8  | 439.8  | 438.4  |
| 70°   | 396.5  | 391.2  | 380.2  | 380.2  | 380.2  |
| 72.5° | 336.9  | 334.4  | 326.3  | 326.3  | 324.9  |
| 75°   | 258.3  | 258.3  | 254.7  | 252.8  | 251.0  |
| 77.5° | 193.5  | 194.3  | 192.4  | 190.6  | 187.4  |
| 80°   | 152.8  | 156.4  | 154.6  | 152.8  | 151.0  |
| 82.5° | 115.0  | 118.5  | 118.2  | 115.0  | 114.6  |
| 85°   | 60.0   | 65.4   | 65.5   | 65.5   | 65.5   |
| 87.5° | 16.0   | 21.7   | 23.3   | 23.3   | 24.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)