

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: P563935

Luminaire Tested: **SQ4-PR1-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563935
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-930-1D-UNV-STD-W-6
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

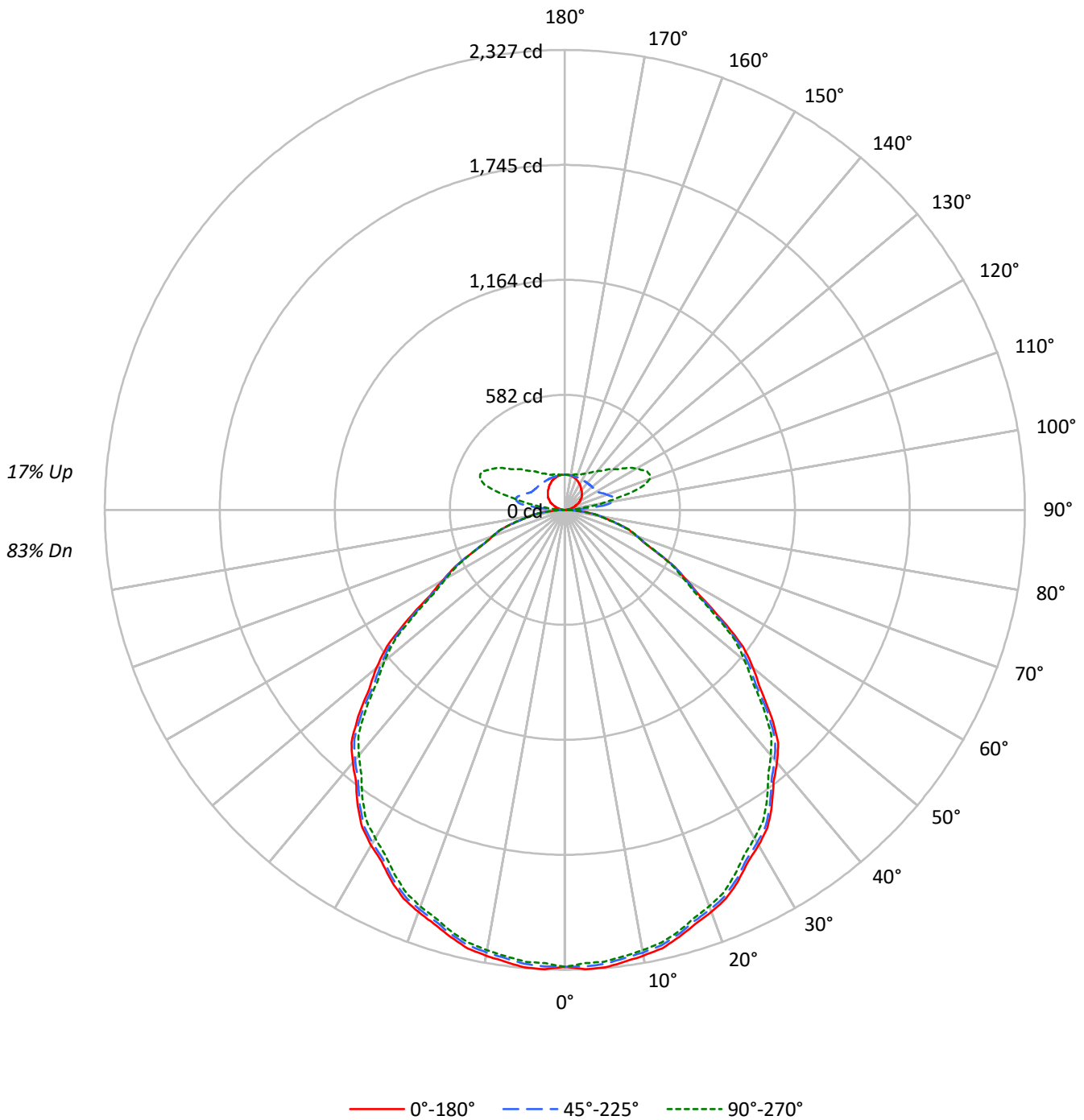
Lumens per Lamp: N/A
Luminaire Lumens: 6934.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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 | 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° | 14222 | 14222 | 14222 |
| 5° | 14351 | 14240 | 14166 |
| 10° | 14305 | 14206 | 14131 |
| 15° | 14242 | 14154 | 14077 |
| 20° | 14170 | 14079 | 13975 |
| 25° | 14071 | 13976 | 13814 |
| 30° | 13919 | 13820 | 13622 |
| 35° | 13714 | 13594 | 13399 |
| 40° | 13401 | 13257 | 13017 |
| 45° | 12855 | 12629 | 12369 |
| 50° | 11892 | 11606 | 11377 |
| 55° | 10379 | 10145 | 9931 |
| 60° | 8746 | 8673 | 8502 |
| 65° | 7565 | 7594 | 7536 |
| 70° | 6949 | 6985 | 6985 |
| 75° | 6673 | 6673 | 6721 |
| 80° | 6280 | 6347 | 6280 |
| 85° | 5060 | 5625 | 5625 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 218.7 | 3.2 |
| 10°-20° | 625.6 | 9.0 |
| 20°-30° | 943.6 | 13.6 |
| 30°-40° | 1124.3 | 16.2 |
| 40°-50° | 1108.5 | 16.0 |
| 50°-60° | 847.2 | 12.2 |
| 60°-70° | 524.3 | 7.6 |
| 70°-80° | 297.8 | 4.3 |
| 80°-90° | 91.5 | 1.3 |
| 90°-100° | 86.7 | 1.3 |
| 100°-110° | 227.9 | 3.3 |
| 110°-120° | 236.3 | 3.4 |
| 120°-130° | 189.6 | 2.7 |
| 130°-140° | 148.7 | 2.1 |
| 140°-150° | 114.2 | 1.6 |
| 150°-160° | 82.2 | 1.2 |
| 160°-170° | 50.3 | 0.7 |
| 170°-180° | 17.0 | 0.2 |
| 0°-30° | 1787.9 | 25.8 |
| 0°-40° | 2912.3 | 42.0 |
| 0°-60° | 4867.9 | 70.2 |
| 0°-90° | 5781.5 | 83.4 |
| 90°-120° | 551.0 | 7.9 |
| 90°-150° | 1003.4 | 14.5 |
| 90°-180° | 1153.0 | 16.6 |
| 0°-180° | 6934.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2312 | 2312 | 2312 | 2312 | 2312 | |
| 5° | 2324 | 2299 | 2306 | 2298 | 2294 | 221 |
| 15° | 2237 | 2213 | 2223 | 2215 | 2211 | 631 |
| 25° | 2073 | 2048 | 2059 | 2037 | 2036 | 954 |
| 35° | 1826 | 1805 | 1810 | 1786 | 1784 | 1140 |
| 45° | 1478 | 1458 | 1452 | 1426 | 1422 | 1132 |
| 55° | 968 | 952 | 946 | 930 | 926 | 867 |
| 65° | 520 | 516 | 522 | 518 | 518 | 527 |
| 75° | 281 | 281 | 281 | 283 | 283 | 297 |
| 85° | 72 | 76 | 80 | 80 | 80 | 83 |
| 90° | 1 | 3 | 9 | 5 | 5 | 4 |
| 95° | 11 | 45 | 149 | 77 | 52 | 13 |
| 105° | 41 | 62 | 252 | 382 | 357 | 43 |
| 115° | 73 | 89 | 202 | 403 | 460 | 72 |
| 125° | 102 | 114 | 184 | 310 | 366 | 90 |
| 135° | 121 | 133 | 178 | 250 | 284 | 94 |
| 145° | 140 | 149 | 176 | 214 | 230 | 88 |
| 155° | 158 | 163 | 176 | 193 | 198 | 73 |
| 165° | 171 | 173 | 176 | 182 | 185 | 48 |
| 175° | 178 | 178 | 177 | 179 | 179 | 17 |
| 180° | 178 | 178 | 178 | 178 | 178 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 |
| 2.5° | 2326.7 | 2306.4 | 2312.3 | 2307.3 | 2296.4 |
| 5° | 2324.3 | 2299.0 | 2306.3 | 2298.3 | 2294.4 |
| 7.5° | 2306.3 | 2281.4 | 2288.8 | 2280.8 | 2278.5 |
| 10° | 2290.4 | 2267.0 | 2274.5 | 2266.4 | 2262.5 |
| 12.5° | 2272.9 | 2248.0 | 2257.0 | 2247.3 | 2243.4 |
| 15° | 2236.6 | 2213.3 | 2222.7 | 2214.6 | 2210.7 |
| 17.5° | 2196.8 | 2171.9 | 2181.3 | 2172.0 | 2166.9 |
| 20° | 2164.9 | 2141.6 | 2151.0 | 2137.0 | 2135.1 |
| 22.5° | 2129.9 | 2106.5 | 2115.9 | 2097.2 | 2096.8 |
| 25° | 2073.3 | 2048.0 | 2059.4 | 2037.4 | 2035.5 |
| 27.5° | 2006.0 | 1982.6 | 1992.1 | 1969.7 | 1967.4 |
| 30° | 1959.8 | 1936.4 | 1945.9 | 1921.9 | 1918.0 |
| 32.5° | 1907.2 | 1885.4 | 1893.3 | 1869.3 | 1867.0 |
| 35° | 1826.4 | 1804.9 | 1810.4 | 1786.5 | 1784.5 |
| 37.5° | 1734.3 | 1714.9 | 1718.0 | 1691.7 | 1689.7 |
| 40° | 1669.0 | 1649.5 | 1651.1 | 1623.2 | 1621.2 |
| 42.5° | 1597.3 | 1577.8 | 1576.2 | 1548.3 | 1546.3 |
| 45° | 1477.8 | 1458.3 | 1451.9 | 1425.9 | 1422.0 |
| 47.5° | 1341.6 | 1322.1 | 1310.1 | 1288.9 | 1286.2 |
| 50° | 1242.8 | 1223.3 | 1212.9 | 1194.9 | 1189.0 |
| 52.5° | 1136.0 | 1116.6 | 1107.8 | 1091.3 | 1085.5 |
| 55° | 967.9 | 952.4 | 946.0 | 930.0 | 926.1 |
| 57.5° | 808.2 | 797.7 | 795.9 | 780.3 | 778.7 |
| 60° | 711.0 | 705.2 | 705.0 | 691.1 | 691.1 |
| 62.5° | 628.2 | 623.9 | 627.0 | 617.8 | 616.2 |
| 65° | 519.8 | 515.9 | 521.8 | 517.8 | 517.8 |
| 67.5° | 434.2 | 434.2 | 437.8 | 436.2 | 436.2 |
| 70° | 386.4 | 386.4 | 388.4 | 388.4 | 388.4 |
| 72.5° | 343.4 | 341.8 | 346.9 | 346.9 | 345.4 |
| 75° | 280.8 | 280.8 | 280.8 | 282.8 | 282.8 |
| 77.5° | 218.7 | 219.1 | 220.7 | 220.2 | 218.7 |
| 80° | 177.3 | 179.2 | 179.2 | 177.3 | 177.3 |
| 82.5° | 135.8 | 137.8 | 137.8 | 137.4 | 135.8 |
| 85° | 71.7 | 75.6 | 79.7 | 79.7 | 79.7 |
| 87.5° | 20.9 | 27.6 | 33.7 | 32.7 | 31.2 |
| 90° | 1.1 | 3.4 | 9.1 | 4.6 | 4.6 |
| 92.5° | 4.8 | 23.1 | 51.1 | 22.6 | 14.6 |
| 95° | 11.4 | 44.9 | 149.4 | 77.0 | 52.5 |
| 97.5° | 19.8 | 49.3 | 223.5 | 177.7 | 130.9 |
| 100° | 26.2 | 53.0 | 246.3 | 249.6 | 193.8 |
| 102.5° | 31.7 | 56.7 | 252.7 | 310.9 | 263.2 |
| 105° | 41.0 | 62.2 | 252.0 | 382.5 | 356.9 |
| 107.5° | 50.6 | 70.3 | 237.6 | 419.8 | 426.0 |
| 110° | 57.0 | 74.9 | 225.8 | 429.3 | 456.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 63.4 | 80.3 | 214.8 | 423.3 | 464.3 |
| 115° | 73.0 | 88.6 | 201.8 | 402.7 | 459.5 |
| 117.5° | 82.3 | 96.6 | 192.9 | 374.1 | 437.2 |
| 120° | 87.8 | 101.2 | 189.3 | 354.9 | 416.2 |
| 122.5° | 93.3 | 106.7 | 186.5 | 335.7 | 396.1 |
| 125° | 101.5 | 113.7 | 183.6 | 310.3 | 366.0 |
| 127.5° | 108.1 | 120.6 | 181.1 | 289.8 | 336.8 |
| 130° | 111.7 | 125.1 | 180.2 | 276.9 | 320.4 |
| 132.5° | 115.4 | 128.8 | 179.2 | 265.9 | 304.9 |
| 135° | 120.9 | 133.1 | 177.9 | 250.5 | 283.9 |
| 137.5° | 126.6 | 138.6 | 177.7 | 238.9 | 266.4 |
| 140° | 131.1 | 142.3 | 176.7 | 229.8 | 255.4 |
| 142.5° | 134.8 | 145.0 | 176.7 | 223.3 | 245.4 |
| 145° | 140.3 | 149.2 | 175.6 | 213.6 | 230.3 |
| 147.5° | 145.7 | 154.4 | 175.6 | 205.6 | 219.4 |
| 150° | 149.4 | 157.2 | 175.6 | 200.9 | 212.1 |
| 152.5° | 153.0 | 159.0 | 175.6 | 197.2 | 205.7 |
| 155° | 158.5 | 163.0 | 175.6 | 192.8 | 198.4 |
| 157.5° | 162.6 | 166.8 | 175.6 | 188.9 | 192.9 |
| 160° | 165.3 | 168.7 | 175.6 | 187.1 | 189.3 |
| 162.5° | 168.1 | 170.5 | 175.6 | 185.2 | 187.5 |
| 165° | 171.0 | 173.3 | 175.6 | 182.5 | 184.7 |
| 167.5° | 173.8 | 174.9 | 176.7 | 181.3 | 182.2 |
| 170° | 175.6 | 176.7 | 176.7 | 181.3 | 181.3 |
| 172.5° | 176.5 | 176.7 | 176.7 | 180.4 | 179.5 |
| 175° | 177.9 | 177.9 | 176.7 | 179.0 | 179.0 |
| 177.5° | 177.9 | 177.9 | 177.0 | 178.8 | 177.9 |
| 180° | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 |

(END OF REPORT)