

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: P562732

Luminaire Tested: **SQ4-PC3-075U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562732
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

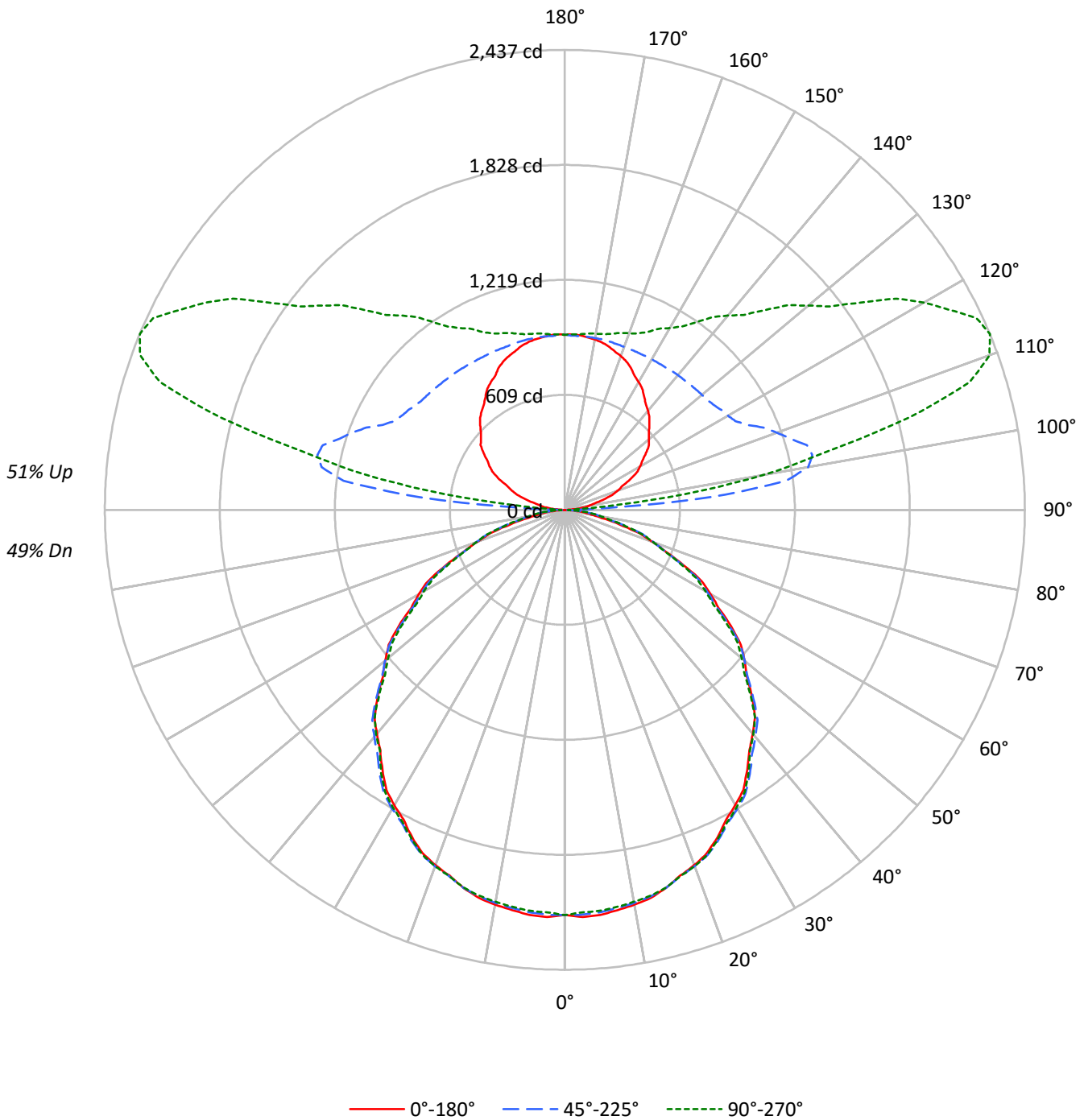
Lumens per Lamp: N/A
Luminaire Lumens: 11909.7 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 | 49 |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 | 42 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 40 | 35 |
| 3 | 81 | 72 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 34 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 34 | 40 | 34 | 30 | 34 | 29 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9904 | 9904 | 9904 |
| 5° | 9979 | 9914 | 9877 |
| 10° | 9955 | 9908 | 9880 |
| 15° | 9902 | 9902 | 9893 |
| 20° | 9837 | 9866 | 9866 |
| 25° | 9744 | 9815 | 9784 |
| 30° | 9625 | 9742 | 9699 |
| 35° | 9482 | 9628 | 9561 |
| 40° | 9326 | 9458 | 9362 |
| 45° | 9156 | 9221 | 9079 |
| 50° | 8917 | 8917 | 8774 |
| 55° | 8634 | 8522 | 8394 |
| 60° | 8217 | 8052 | 7923 |
| 65° | 7595 | 7443 | 7378 |
| 70° | 6649 | 6703 | 6676 |
| 75° | 5351 | 5917 | 5953 |
| 80° | 3802 | 5018 | 5069 |
| 85° | 2313 | 4208 | 4208 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 203.2 | 1.7 |
| 10°-20° | 583.1 | 4.9 |
| 20°-30° | 883.0 | 7.4 |
| 30°-40° | 1058.6 | 8.9 |
| 40°-50° | 1079.4 | 9.1 |
| 50°-60° | 942.3 | 7.9 |
| 60°-70° | 674.6 | 5.7 |
| 70°-80° | 347.5 | 2.9 |
| 80°-90° | 90.2 | 0.8 |
| 90°-100° | 437.9 | 3.7 |
| 100°-110° | 1204.6 | 10.1 |
| 110°-120° | 1243.4 | 10.4 |
| 120°-130° | 996.2 | 8.4 |
| 130°-140° | 782.5 | 6.6 |
| 140°-150° | 599.6 | 5.0 |
| 150°-160° | 431.1 | 3.6 |
| 160°-170° | 263.6 | 2.2 |
| 170°-180° | 88.9 | 0.7 |
| 0°-30° | 1669.3 | 14.0 |
| 0°-40° | 2727.9 | 22.9 |
| 0°-60° | 4749.6 | 39.9 |
| 0°-90° | 5861.9 | 49.2 |
| 90°-120° | 2885.9 | 24.2 |
| 90°-150° | 5264.2 | 44.2 |
| 90°-180° | 6048.0 | 50.8 |
| 0°-180° | 11909.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2147 | 2147 | 2147 | 2147 | 2147 | |
| 5° | 2155 | 2134 | 2141 | 2135 | 2133 | 205 |
| 15° | 2073 | 2056 | 2073 | 2073 | 2071 | 585 |
| 25° | 1914 | 1901 | 1928 | 1922 | 1922 | 881 |
| 35° | 1684 | 1680 | 1710 | 1698 | 1698 | 1053 |
| 45° | 1404 | 1400 | 1413 | 1395 | 1392 | 1080 |
| 55° | 1074 | 1060 | 1060 | 1044 | 1044 | 957 |
| 65° | 696 | 680 | 682 | 676 | 676 | 688 |
| 75° | 300 | 314 | 332 | 334 | 334 | 324 |
| 85° | 44 | 67 | 80 | 82 | 80 | 59 |
| 90° | 2 | 8 | 14 | 18 | 18 | 6 |
| 95° | 65 | 239 | 774 | 331 | 211 | 69 |
| 105° | 215 | 331 | 1327 | 2022 | 1886 | 227 |
| 115° | 381 | 464 | 1065 | 2120 | 2406 | 376 |
| 125° | 525 | 599 | 966 | 1634 | 1914 | 469 |
| 135° | 634 | 704 | 938 | 1321 | 1495 | 489 |
| 145° | 733 | 783 | 924 | 1126 | 1213 | 460 |
| 155° | 830 | 857 | 918 | 1012 | 1041 | 381 |
| 165° | 897 | 908 | 922 | 960 | 966 | 253 |
| 175° | 928 | 930 | 924 | 936 | 934 | 88 |
| 180° | 928 | 928 | 928 | 928 | 928 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2147.0 | 2147.0 | 2147.0 | 2147.0 | 2147.0 |
| 2.5° | 2159.7 | 2141.0 | 2147.0 | 2142.0 | 2134.2 |
| 5° | 2154.9 | 2133.5 | 2141.0 | 2135.0 | 2133.0 |
| 7.5° | 2139.4 | 2118.0 | 2127.9 | 2123.9 | 2121.9 |
| 10° | 2125.1 | 2103.7 | 2115.2 | 2111.1 | 2109.2 |
| 12.5° | 2106.0 | 2086.2 | 2099.3 | 2095.3 | 2094.9 |
| 15° | 2073.4 | 2055.9 | 2073.4 | 2073.4 | 2071.4 |
| 17.5° | 2032.5 | 2016.5 | 2035.2 | 2036.4 | 2035.2 |
| 20° | 2003.8 | 1986.3 | 2009.8 | 2007.9 | 2009.8 |
| 22.5° | 1968.8 | 1954.5 | 1979.6 | 1974.5 | 1976.4 |
| 25° | 1914.4 | 1900.8 | 1928.3 | 1922.3 | 1922.3 |
| 27.5° | 1850.0 | 1840.2 | 1870.2 | 1863.9 | 1863.9 |
| 30° | 1807.0 | 1797.3 | 1828.9 | 1820.9 | 1820.9 |
| 32.5° | 1759.3 | 1752.7 | 1782.8 | 1773.2 | 1773.2 |
| 35° | 1683.8 | 1679.9 | 1709.6 | 1697.7 | 1697.7 |
| 37.5° | 1605.8 | 1602.4 | 1629.3 | 1614.9 | 1610.2 |
| 40° | 1548.6 | 1546.7 | 1570.5 | 1554.6 | 1554.6 |
| 42.5° | 1491.3 | 1489.4 | 1510.0 | 1490.9 | 1490.9 |
| 45° | 1403.5 | 1399.6 | 1413.4 | 1395.4 | 1391.6 |
| 47.5° | 1307.7 | 1303.8 | 1312.4 | 1292.9 | 1291.0 |
| 50° | 1242.5 | 1238.6 | 1242.5 | 1224.5 | 1222.6 |
| 52.5° | 1175.7 | 1168.7 | 1169.3 | 1151.4 | 1151.0 |
| 55° | 1073.5 | 1059.9 | 1059.6 | 1043.7 | 1043.7 |
| 57.5° | 965.3 | 947.5 | 949.0 | 935.5 | 933.5 |
| 60° | 890.6 | 871.2 | 872.7 | 860.7 | 858.8 |
| 62.5° | 817.4 | 794.9 | 799.5 | 786.0 | 785.6 |
| 65° | 695.8 | 680.2 | 681.9 | 675.9 | 675.9 |
| 67.5° | 578.9 | 564.5 | 574.9 | 570.1 | 569.7 |
| 70° | 493.0 | 483.3 | 497.0 | 496.9 | 495.0 |
| 72.5° | 413.5 | 413.1 | 430.2 | 430.2 | 431.4 |
| 75° | 300.2 | 313.8 | 332.0 | 334.0 | 334.0 |
| 77.5° | 200.4 | 224.5 | 244.5 | 245.3 | 244.9 |
| 80° | 143.1 | 170.3 | 188.9 | 192.8 | 190.8 |
| 82.5° | 97.0 | 125.8 | 141.1 | 145.1 | 143.1 |
| 85° | 43.7 | 67.1 | 79.5 | 81.5 | 79.5 |
| 87.5° | 13.1 | 28.3 | 34.6 | 35.3 | 32.2 |
| 90° | 2.0 | 7.8 | 13.8 | 17.8 | 17.8 |
| 92.5° | 27.3 | 116.5 | 201.9 | 77.5 | 63.6 |
| 95° | 65.2 | 239.0 | 774.3 | 331.1 | 211.3 |
| 97.5° | 106.3 | 265.0 | 1181.6 | 910.4 | 642.3 |
| 100° | 136.3 | 281.1 | 1309.6 | 1321.8 | 1078.5 |
| 102.5° | 164.7 | 300.3 | 1342.7 | 1639.9 | 1416.6 |
| 105° | 215.3 | 331.2 | 1327.3 | 2021.5 | 1886.3 |
| 107.5° | 263.5 | 369.3 | 1251.9 | 2208.4 | 2248.6 |
| 110° | 298.3 | 394.8 | 1195.0 | 2254.9 | 2394.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 329.9 | 423.3 | 1138.1 | 2224.9 | 2436.6 |
| 115° | 381.2 | 464.3 | 1064.6 | 2120.0 | 2405.8 |
| 117.5° | 430.2 | 506.7 | 1018.0 | 1972.7 | 2296.0 |
| 120° | 460.2 | 533.6 | 997.5 | 1862.3 | 2196.4 |
| 122.5° | 487.1 | 560.5 | 983.3 | 1765.5 | 2082.7 |
| 125° | 525.4 | 598.8 | 965.9 | 1633.9 | 1914.0 |
| 127.5° | 561.7 | 631.7 | 954.4 | 1524.1 | 1769.8 |
| 130° | 580.7 | 652.2 | 948.1 | 1458.8 | 1682.9 |
| 132.5° | 602.8 | 674.3 | 943.4 | 1401.5 | 1603.9 |
| 135° | 634.0 | 703.6 | 938.2 | 1321.4 | 1495.2 |
| 137.5° | 663.3 | 727.8 | 933.9 | 1256.7 | 1400.0 |
| 140° | 685.4 | 745.3 | 932.3 | 1213.7 | 1343.1 |
| 142.5° | 704.4 | 759.6 | 929.1 | 1175.4 | 1286.3 |
| 145° | 732.8 | 783.0 | 924.4 | 1125.9 | 1212.8 |
| 147.5° | 763.2 | 806.5 | 922.0 | 1082.0 | 1151.5 |
| 150° | 782.2 | 820.8 | 920.4 | 1058.0 | 1112.0 |
| 152.5° | 799.6 | 835.1 | 918.9 | 1037.2 | 1082.0 |
| 155° | 829.6 | 856.6 | 918.5 | 1012.0 | 1040.9 |
| 157.5° | 851.3 | 873.3 | 918.5 | 991.2 | 1011.3 |
| 160° | 867.1 | 884.5 | 918.5 | 980.1 | 995.5 |
| 162.5° | 879.8 | 894.0 | 920.1 | 970.5 | 982.9 |
| 165° | 896.7 | 908.3 | 922.4 | 960.1 | 965.9 |
| 167.5° | 908.6 | 917.5 | 924.4 | 951.3 | 952.8 |
| 170° | 916.5 | 922.3 | 924.4 | 948.1 | 948.1 |
| 172.5° | 922.8 | 925.5 | 924.4 | 943.3 | 941.8 |
| 175° | 928.3 | 930.3 | 924.4 | 936.2 | 934.3 |
| 177.5° | 929.9 | 929.9 | 923.6 | 933.0 | 929.9 |
| 180° | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 |

(END OF REPORT)