

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: P563751

Luminaire Tested: **SQ4-PP3-125U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563751
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

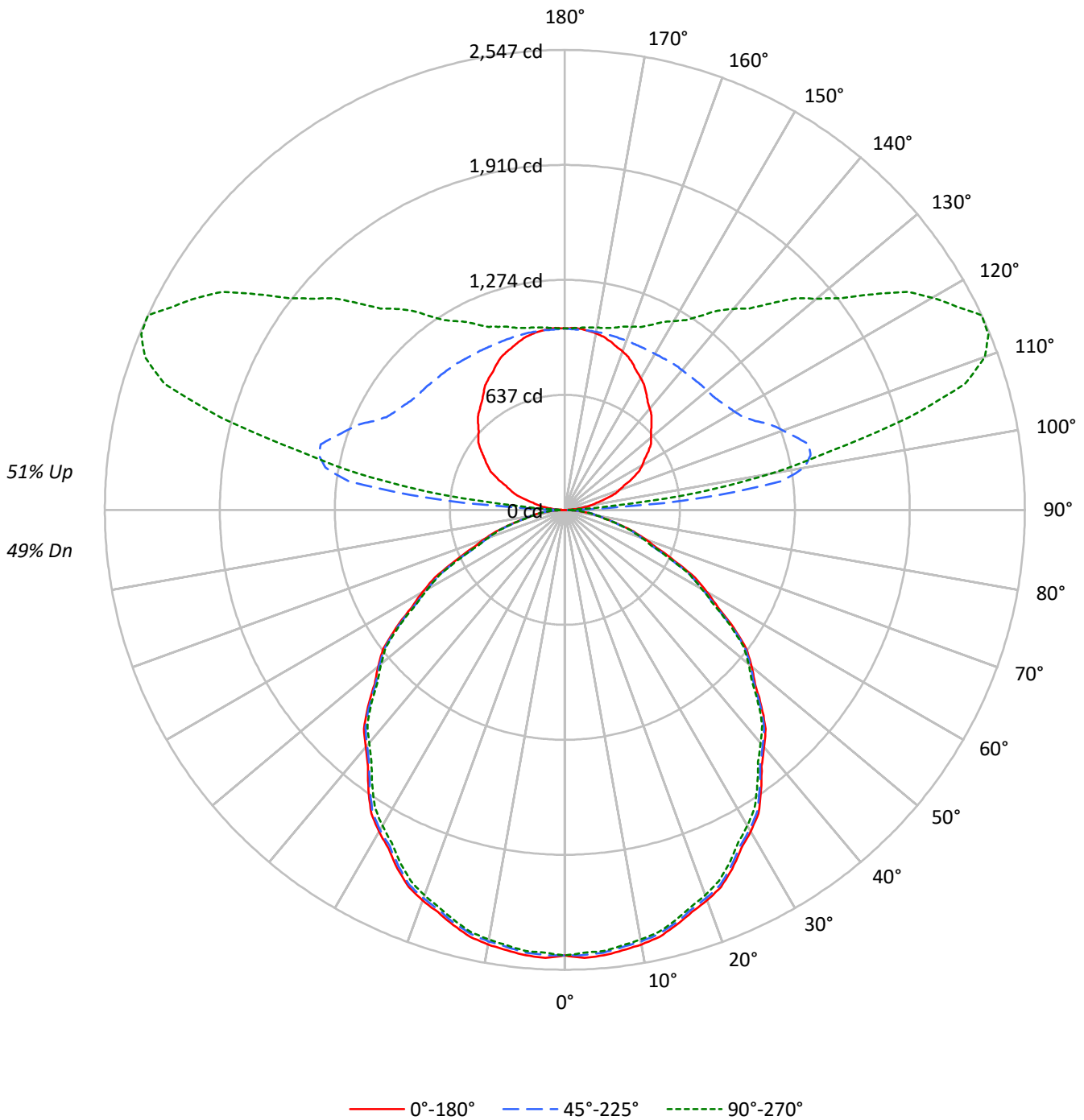
Lumens per Lamp: N/A
Luminaire Lumens: 12802.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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





TEST NUMBER: P563751

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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 49 | | | | |
| 1 | 98 | 94 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 69 | 61 | 59 | 58 | 49 | 48 | 47 | 42 | | | | |
| 2 | 89 | 82 | 76 | 71 | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 35 | | | | |
| 3 | 81 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 | | | | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 31 | 28 | 26 | 23 | | | | |
| 6 | 63 | 51 | 43 | 37 | 58 | 48 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 20 | | | | |
| 7 | 58 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 | | | | |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 | | | | |
| 9 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 | | | | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 13 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15181 | 15181 | 15181 |
| 5° | 15292 | 15199 | 15146 |
| 10° | 15267 | 15159 | 15091 |
| 15° | 15166 | 15083 | 15001 |
| 20° | 15065 | 14980 | 14867 |
| 25° | 14887 | 14783 | 14637 |
| 30° | 14611 | 14534 | 14350 |
| 35° | 14228 | 14131 | 13953 |
| 40° | 13773 | 13687 | 13530 |
| 45° | 13398 | 13304 | 13171 |
| 50° | 12916 | 12834 | 12709 |
| 55° | 12248 | 12085 | 11993 |
| 60° | 11150 | 10830 | 10777 |
| 65° | 9823 | 9414 | 9382 |
| 70° | 8481 | 8130 | 8130 |
| 75° | 7301 | 7196 | 7094 |
| 80° | 6436 | 6514 | 6358 |
| 85° | 5039 | 5498 | 5498 |



TEST NUMBER: P563751

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.4 | 1.8 |
| 10°-20° | 666.4 | 5.2 |
| 20°-30° | 998.2 | 7.8 |
| 30°-40° | 1170.8 | 9.1 |
| 40°-50° | 1174.5 | 9.2 |
| 50°-60° | 1001.9 | 7.8 |
| 60°-70° | 653.4 | 5.1 |
| 70°-80° | 327.8 | 2.6 |
| 80°-90° | 93.1 | 0.7 |
| 90°-100° | 469.8 | 3.7 |
| 100°-110° | 1265.4 | 9.9 |
| 110°-120° | 1328.0 | 10.4 |
| 120°-130° | 1077.7 | 8.4 |
| 130°-140° | 845.2 | 6.6 |
| 140°-150° | 648.9 | 5.1 |
| 150°-160° | 466.6 | 3.6 |
| 160°-170° | 285.0 | 2.2 |
| 170°-180° | 96.1 | 0.8 |
| 0°-30° | 1898.0 | 14.8 |
| 0°-40° | 3068.8 | 24.0 |
| 0°-60° | 5245.2 | 41.0 |
| 0°-90° | 6319.5 | 49.4 |
| 90°-120° | 3063.3 | 23.9 |
| 90°-150° | 5635.0 | 44.0 |
| 90°-180° | 6483.0 | 50.6 |
| 0°-180° | 12802.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2468 | 2468 | 2468 | 2468 | 2468 | |
| 5° | 2477 | 2454 | 2462 | 2453 | 2453 | 235 |
| 15° | 2382 | 2358 | 2369 | 2360 | 2356 | 672 |
| 25° | 2194 | 2168 | 2178 | 2159 | 2157 | 1009 |
| 35° | 1895 | 1876 | 1882 | 1860 | 1858 | 1184 |
| 45° | 1540 | 1530 | 1529 | 1514 | 1514 | 1186 |
| 55° | 1142 | 1138 | 1127 | 1120 | 1118 | 1015 |
| 65° | 675 | 662 | 647 | 642 | 645 | 674 |
| 75° | 307 | 307 | 303 | 301 | 298 | 333 |
| 85° | 71 | 78 | 78 | 78 | 78 | 84 |
| 90° | 3 | 8 | 15 | 17 | 17 | 8 |
| 95° | 72 | 256 | 770 | 394 | 272 | 75 |
| 105° | 234 | 364 | 1400 | 2094 | 1965 | 246 |
| 115° | 413 | 506 | 1165 | 2252 | 2547 | 407 |
| 125° | 564 | 648 | 1046 | 1769 | 2081 | 504 |
| 135° | 679 | 758 | 1017 | 1427 | 1616 | 524 |
| 145° | 786 | 847 | 1004 | 1220 | 1310 | 493 |
| 155° | 892 | 924 | 995 | 1094 | 1130 | 410 |
| 165° | 967 | 978 | 999 | 1039 | 1044 | 273 |
| 175° | 1006 | 1004 | 1000 | 1014 | 1012 | 96 |
| 180° | 1004 | 1004 | 1004 | 1004 | 1004 | |

TEST NUMBER: P563751

CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2468.2 | 2468.2 | 2468.2 | 2468.2 | 2468.2 |
| 2.5° | 2483.7 | 2463.4 | 2468.2 | 2464.5 | 2454.3 |
| 5° | 2476.8 | 2453.6 | 2461.7 | 2453.0 | 2453.0 |
| 7.5° | 2460.0 | 2434.6 | 2442.6 | 2434.0 | 2433.6 |
| 10° | 2444.4 | 2419.0 | 2427.1 | 2418.4 | 2416.3 |
| 12.5° | 2421.9 | 2396.5 | 2406.3 | 2395.9 | 2395.5 |
| 15° | 2381.6 | 2358.4 | 2368.7 | 2359.9 | 2355.7 |
| 17.5° | 2336.2 | 2310.8 | 2323.2 | 2311.1 | 2309.4 |
| 20° | 2301.6 | 2276.2 | 2288.6 | 2271.3 | 2271.3 |
| 22.5° | 2260.1 | 2234.7 | 2248.8 | 2226.3 | 2226.3 |
| 25° | 2193.5 | 2168.1 | 2178.3 | 2158.8 | 2156.7 |
| 27.5° | 2114.3 | 2089.3 | 2100.0 | 2077.9 | 2077.5 |
| 30° | 2057.2 | 2033.9 | 2046.4 | 2022.5 | 2020.4 |
| 32.5° | 1994.9 | 1973.3 | 1982.3 | 1958.5 | 1956.4 |
| 35° | 1894.9 | 1875.9 | 1882.0 | 1860.3 | 1858.2 |
| 37.5° | 1789.8 | 1770.3 | 1777.3 | 1758.6 | 1757.8 |
| 40° | 1715.4 | 1702.7 | 1704.6 | 1689.3 | 1685.1 |
| 42.5° | 1646.2 | 1631.8 | 1633.6 | 1618.5 | 1617.6 |
| 45° | 1540.2 | 1529.6 | 1529.4 | 1514.2 | 1514.2 |
| 47.5° | 1427.7 | 1419.7 | 1417.3 | 1404.8 | 1404.3 |
| 50° | 1349.8 | 1343.5 | 1341.2 | 1330.3 | 1328.2 |
| 52.5° | 1268.5 | 1265.5 | 1258.1 | 1249.0 | 1248.6 |
| 55° | 1142.2 | 1137.9 | 1127.0 | 1120.5 | 1118.4 |
| 57.5° | 1005.0 | 996.5 | 984.2 | 974.8 | 976.5 |
| 60° | 906.4 | 897.9 | 880.4 | 876.1 | 876.1 |
| 62.5° | 811.2 | 801.0 | 783.5 | 777.5 | 780.9 |
| 65° | 674.9 | 662.2 | 646.8 | 642.5 | 644.6 |
| 67.5° | 551.2 | 539.8 | 523.1 | 523.0 | 521.3 |
| 70° | 471.6 | 465.2 | 452.1 | 452.1 | 452.1 |
| 72.5° | 400.6 | 397.7 | 388.1 | 388.0 | 386.3 |
| 75° | 307.2 | 307.2 | 302.8 | 300.6 | 298.5 |
| 77.5° | 230.2 | 231.0 | 228.9 | 226.6 | 222.8 |
| 80° | 181.7 | 185.9 | 183.9 | 181.7 | 179.5 |
| 82.5° | 136.7 | 140.9 | 140.6 | 136.7 | 136.3 |
| 85° | 71.4 | 77.7 | 77.9 | 77.9 | 77.9 |
| 87.5° | 19.5 | 27.3 | 30.8 | 31.1 | 32.7 |
| 90° | 2.6 | 7.6 | 15.4 | 16.6 | 16.6 |
| 92.5° | 31.2 | 110.3 | 218.0 | 104.9 | 72.9 |
| 95° | 71.6 | 255.5 | 770.1 | 393.8 | 272.5 |
| 97.5° | 114.4 | 292.5 | 1207.9 | 1009.1 | 760.9 |
| 100° | 147.1 | 307.2 | 1347.0 | 1409.4 | 1169.2 |
| 102.5° | 178.8 | 327.9 | 1393.1 | 1709.2 | 1512.1 |
| 105° | 234.1 | 364.2 | 1399.5 | 2093.7 | 1964.9 |
| 107.5° | 286.3 | 402.4 | 1339.9 | 2291.4 | 2324.6 |
| 110° | 321.1 | 431.2 | 1285.6 | 2352.7 | 2474.1 |

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CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 357.9 | 460.0 | 1233.4 | 2339.1 | 2538.5 |
| 115° | 413.2 | 505.8 | 1165.4 | 2251.8 | 2547.0 |
| 117.5° | 463.6 | 550.4 | 1112.7 | 2112.3 | 2441.0 |
| 120° | 496.3 | 580.2 | 1086.1 | 2012.2 | 2350.0 |
| 122.5° | 525.0 | 607.8 | 1066.6 | 1909.9 | 2246.6 |
| 125° | 564.1 | 648.0 | 1046.4 | 1768.6 | 2081.3 |
| 127.5° | 601.8 | 684.3 | 1033.6 | 1644.0 | 1923.2 |
| 130° | 624.3 | 706.8 | 1028.5 | 1572.6 | 1817.8 |
| 132.5° | 646.8 | 728.3 | 1023.4 | 1509.8 | 1734.9 |
| 135° | 679.3 | 758.1 | 1017.0 | 1426.8 | 1615.7 |
| 137.5° | 710.2 | 785.8 | 1013.7 | 1356.5 | 1511.6 |
| 140° | 731.7 | 804.3 | 1010.6 | 1313.1 | 1453.2 |
| 142.5° | 754.2 | 821.8 | 1008.6 | 1272.7 | 1390.8 |
| 145° | 785.5 | 846.7 | 1004.2 | 1219.9 | 1309.9 |
| 147.5° | 819.2 | 872.5 | 999.9 | 1175.4 | 1246.2 |
| 150° | 841.7 | 888.0 | 997.8 | 1147.5 | 1206.3 |
| 152.5° | 862.2 | 902.5 | 996.8 | 1124.8 | 1172.6 |
| 155° | 891.6 | 924.2 | 995.2 | 1094.5 | 1129.6 |
| 157.5° | 917.5 | 942.7 | 995.5 | 1073.3 | 1096.8 |
| 160° | 933.8 | 955.1 | 996.5 | 1060.9 | 1078.4 |
| 162.5° | 948.2 | 965.4 | 997.6 | 1050.5 | 1063.0 |
| 165° | 967.1 | 978.4 | 999.1 | 1038.9 | 1043.9 |
| 167.5° | 982.5 | 989.0 | 1000.4 | 1029.8 | 1031.8 |
| 170° | 992.7 | 995.2 | 1000.4 | 1024.7 | 1024.7 |
| 172.5° | 998.8 | 999.3 | 1001.4 | 1019.6 | 1019.6 |
| 175° | 1005.5 | 1004.2 | 1000.4 | 1014.4 | 1011.9 |
| 177.5° | 1008.3 | 1006.3 | 1001.1 | 1009.3 | 1007.3 |
| 180° | 1004.2 | 1004.2 | 1004.2 | 1004.2 | 1004.2 |

(END OF REPORT)