

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: P561741

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561741
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

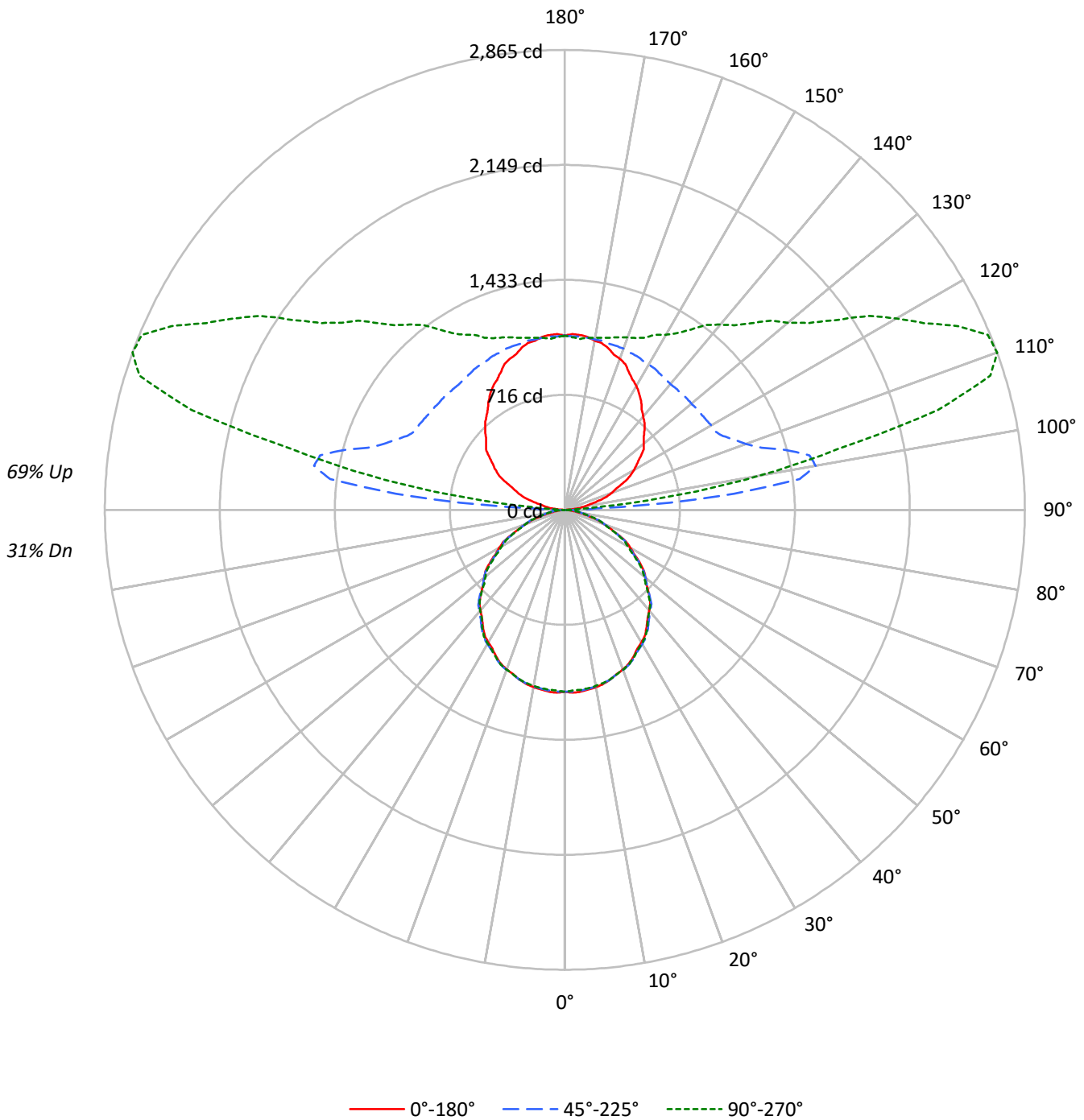
Lumens per Lamp: N/A
Luminaire Lumens: 9831.8 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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: P561741
CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561741

CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

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 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 94 | 89 | 86 | 82 | 84 | 81 | 77 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 40 | 38 | 30 | 29 | 28 | 22 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 32 | 27 | 25 | 24 | 19 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 |
| 5 | 65 | 54 | 46 | 40 | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 19 | 18 | 14 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 15 | 12 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 15 | 14 | 11 |
| 8 | 51 | 39 | 32 | 26 | 46 | 36 | 29 | 24 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9 | 47 | 36 | 28 | 23 | 43 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10453 | 10453 | 10453 |
| 5° | 10532 | 10465 | 10426 |
| 10° | 10507 | 10458 | 10428 |
| 15° | 10451 | 10451 | 10442 |
| 20° | 10383 | 10414 | 10414 |
| 25° | 10285 | 10359 | 10328 |
| 30° | 10159 | 10283 | 10238 |
| 35° | 10008 | 10162 | 10091 |
| 40° | 9844 | 9982 | 9881 |
| 45° | 9665 | 9732 | 9582 |
| 50° | 9412 | 9412 | 9261 |
| 55° | 9112 | 8995 | 8860 |
| 60° | 8673 | 8499 | 8363 |
| 65° | 8016 | 7855 | 7787 |
| 70° | 7019 | 7076 | 7046 |
| 75° | 5647 | 6245 | 6285 |
| 80° | 4011 | 5297 | 5350 |
| 85° | 2445 | 4446 | 4446 |



TEST NUMBER: P561741

CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.2 | 1.1 |
| 10°-20° | 307.7 | 3.1 |
| 20°-30° | 466.0 | 4.7 |
| 30°-40° | 558.7 | 5.7 |
| 40°-50° | 569.6 | 5.8 |
| 50°-60° | 497.3 | 5.1 |
| 60°-70° | 356.0 | 3.6 |
| 70°-80° | 183.4 | 1.9 |
| 80°-90° | 46.4 | 0.5 |
| 90°-100° | 494.4 | 5.0 |
| 100°-110° | 1406.7 | 14.3 |
| 110°-120° | 1347.8 | 13.7 |
| 120°-130° | 1066.7 | 10.8 |
| 130°-140° | 856.2 | 8.7 |
| 140°-150° | 670.3 | 6.8 |
| 150°-160° | 490.5 | 5.0 |
| 160°-170° | 303.8 | 3.1 |
| 170°-180° | 103.1 | 1.0 |
| 0°-30° | 880.9 | 9.0 |
| 0°-40° | 1439.6 | 14.6 |
| 0°-60° | 2506.5 | 25.5 |
| 0°-90° | 3092.3 | 31.5 |
| 90°-120° | 3249.0 | 33.0 |
| 90°-150° | 5842.2 | 59.4 |
| 90°-180° | 6740.0 | 68.6 |
| 0°-180° | 9831.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1133 | 1133 | 1133 | 1133 | 1133 | |
| 5° | 1137 | 1126 | 1130 | 1127 | 1126 | 108 |
| 15° | 1094 | 1085 | 1094 | 1094 | 1093 | 309 |
| 25° | 1010 | 1003 | 1018 | 1014 | 1014 | 465 |
| 35° | 889 | 886 | 902 | 896 | 896 | 556 |
| 45° | 741 | 739 | 746 | 736 | 734 | 570 |
| 55° | 566 | 559 | 559 | 551 | 551 | 505 |
| 65° | 367 | 359 | 360 | 357 | 357 | 363 |
| 75° | 158 | 166 | 175 | 176 | 176 | 171 |
| 85° | 23 | 35 | 42 | 43 | 42 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 54 | 213 | 957 | 331 | 204 | 61 |
| 105° | 219 | 332 | 1434 | 2532 | 2407 | 231 |
| 115° | 406 | 491 | 1087 | 2303 | 2704 | 400 |
| 125° | 573 | 636 | 1038 | 1722 | 2059 | 513 |
| 135° | 701 | 760 | 1025 | 1454 | 1644 | 541 |
| 145° | 827 | 870 | 1033 | 1259 | 1372 | 517 |
| 155° | 945 | 967 | 1058 | 1138 | 1184 | 437 |
| 165° | 1044 | 1048 | 1070 | 1094 | 1110 | 294 |
| 175° | 1093 | 1087 | 1083 | 1076 | 1068 | 104 |
| 180° | 1085 | 1085 | 1085 | 1085 | 1085 | |

TEST NUMBER: P561741

CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1133.0 | 1133.0 | 1133.0 | 1133.0 | 1133.0 |
| 2.5° | 1139.8 | 1129.9 | 1133.0 | 1130.4 | 1126.3 |
| 5° | 1137.2 | 1126.0 | 1129.9 | 1126.7 | 1125.7 |
| 7.5° | 1129.1 | 1117.8 | 1123.0 | 1120.8 | 1119.8 |
| 10° | 1121.5 | 1110.2 | 1116.3 | 1114.1 | 1113.1 |
| 12.5° | 1111.4 | 1101.0 | 1107.9 | 1105.8 | 1105.6 |
| 15° | 1094.2 | 1085.0 | 1094.2 | 1094.2 | 1093.2 |
| 17.5° | 1072.6 | 1064.2 | 1074.1 | 1074.7 | 1074.1 |
| 20° | 1057.5 | 1048.3 | 1060.7 | 1059.6 | 1060.7 |
| 22.5° | 1039.0 | 1031.4 | 1044.7 | 1042.0 | 1043.0 |
| 25° | 1010.3 | 1003.1 | 1017.6 | 1014.5 | 1014.5 |
| 27.5° | 976.3 | 971.2 | 987.0 | 983.6 | 983.6 |
| 30° | 953.6 | 948.5 | 965.2 | 961.0 | 961.0 |
| 32.5° | 928.5 | 925.0 | 940.8 | 935.8 | 935.8 |
| 35° | 888.6 | 886.5 | 902.2 | 895.9 | 895.9 |
| 37.5° | 847.5 | 845.6 | 859.9 | 852.2 | 849.8 |
| 40° | 817.3 | 816.2 | 828.8 | 820.4 | 820.4 |
| 42.5° | 787.0 | 786.0 | 796.9 | 786.8 | 786.8 |
| 45° | 740.7 | 738.6 | 745.9 | 736.4 | 734.4 |
| 47.5° | 690.1 | 688.1 | 692.6 | 682.3 | 681.3 |
| 50° | 655.7 | 653.6 | 655.7 | 646.2 | 645.2 |
| 52.5° | 620.4 | 616.8 | 617.1 | 607.6 | 607.4 |
| 55° | 566.5 | 559.3 | 559.2 | 550.8 | 550.8 |
| 57.5° | 509.4 | 500.0 | 500.8 | 493.7 | 492.7 |
| 60° | 470.0 | 459.7 | 460.6 | 454.2 | 453.2 |
| 62.5° | 431.4 | 419.5 | 422.0 | 414.8 | 414.6 |
| 65° | 367.2 | 359.0 | 359.8 | 356.7 | 356.7 |
| 67.5° | 305.5 | 297.9 | 303.4 | 300.9 | 300.7 |
| 70° | 260.2 | 255.1 | 262.3 | 262.3 | 261.2 |
| 72.5° | 218.2 | 218.0 | 227.0 | 227.0 | 227.7 |
| 75° | 158.4 | 165.6 | 175.2 | 176.3 | 176.3 |
| 77.5° | 105.8 | 118.5 | 129.0 | 129.5 | 129.3 |
| 80° | 75.5 | 89.9 | 99.7 | 101.7 | 100.7 |
| 82.5° | 51.2 | 66.4 | 74.5 | 76.6 | 75.5 |
| 85° | 23.1 | 35.4 | 42.0 | 43.0 | 42.0 |
| 87.5° | 6.7 | 14.1 | 16.8 | 16.7 | 15.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 16.5 | 87.5 | 203.0 | 59.1 | 44.6 |
| 95° | 53.6 | 213.0 | 957.1 | 331.3 | 204.2 |
| 97.5° | 98.6 | 249.5 | 1474.0 | 1054.7 | 722.8 |
| 100° | 129.9 | 271.1 | 1586.2 | 1606.7 | 1237.6 |
| 102.5° | 164.6 | 294.5 | 1561.5 | 2056.6 | 1734.3 |
| 105° | 218.6 | 331.6 | 1433.6 | 2532.2 | 2407.2 |
| 107.5° | 273.5 | 374.8 | 1284.2 | 2666.3 | 2777.6 |
| 110° | 311.5 | 406.3 | 1198.4 | 2615.0 | 2865.1 |

TEST NUMBER: P561741

CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 347.8 | 437.7 | 1140.7 | 2493.7 | 2850.2 |
| 115° | 406.4 | 491.1 | 1087.0 | 2302.8 | 2704.2 |
| 117.5° | 457.9 | 537.4 | 1055.3 | 2094.2 | 2519.4 |
| 120° | 499.2 | 565.7 | 1052.0 | 1975.0 | 2382.4 |
| 122.5° | 532.2 | 598.7 | 1043.7 | 1870.4 | 2248.8 |
| 125° | 573.4 | 636.0 | 1037.5 | 1721.8 | 2058.6 |
| 127.5° | 618.4 | 676.9 | 1034.2 | 1632.9 | 1910.5 |
| 130° | 641.5 | 700.0 | 1029.3 | 1571.1 | 1813.1 |
| 132.5° | 666.3 | 723.1 | 1029.3 | 1522.8 | 1745.5 |
| 135° | 701.3 | 759.8 | 1025.2 | 1454.4 | 1644.0 |
| 137.5° | 734.3 | 791.2 | 1024.7 | 1396.5 | 1560.2 |
| 140° | 759.1 | 817.6 | 1023.1 | 1348.5 | 1505.8 |
| 142.5° | 787.1 | 835.9 | 1028.0 | 1310.1 | 1451.3 |
| 145° | 827.1 | 869.5 | 1033.4 | 1258.7 | 1371.7 |
| 147.5° | 861.4 | 902.5 | 1042.5 | 1206.8 | 1304.4 |
| 150° | 891.1 | 919.3 | 1045.8 | 1189.7 | 1258.2 |
| 152.5° | 914.2 | 944.0 | 1049.1 | 1166.5 | 1230.2 |
| 155° | 944.7 | 966.9 | 1058.2 | 1137.6 | 1184.0 |
| 157.5° | 982.7 | 996.0 | 1060.2 | 1124.5 | 1157.6 |
| 160° | 1002.5 | 1012.6 | 1068.5 | 1114.5 | 1142.7 |
| 162.5° | 1014.0 | 1025.7 | 1070.1 | 1106.1 | 1127.9 |
| 165° | 1043.7 | 1047.8 | 1070.5 | 1093.6 | 1109.7 |
| 167.5° | 1063.9 | 1060.3 | 1080.0 | 1090.5 | 1096.9 |
| 170° | 1070.5 | 1068.5 | 1076.7 | 1079.0 | 1087.0 |
| 172.5° | 1085.4 | 1078.5 | 1081.7 | 1075.6 | 1082.1 |
| 175° | 1093.2 | 1087.2 | 1082.9 | 1076.5 | 1068.5 |
| 177.5° | 1096.5 | 1086.8 | 1081.7 | 1075.1 | 1076.7 |
| 180° | 1085.0 | 1085.0 | 1085.0 | 1085.0 | 1085.0 |

(END OF REPORT)