

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: P561689

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561689
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-PC3-125U-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 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

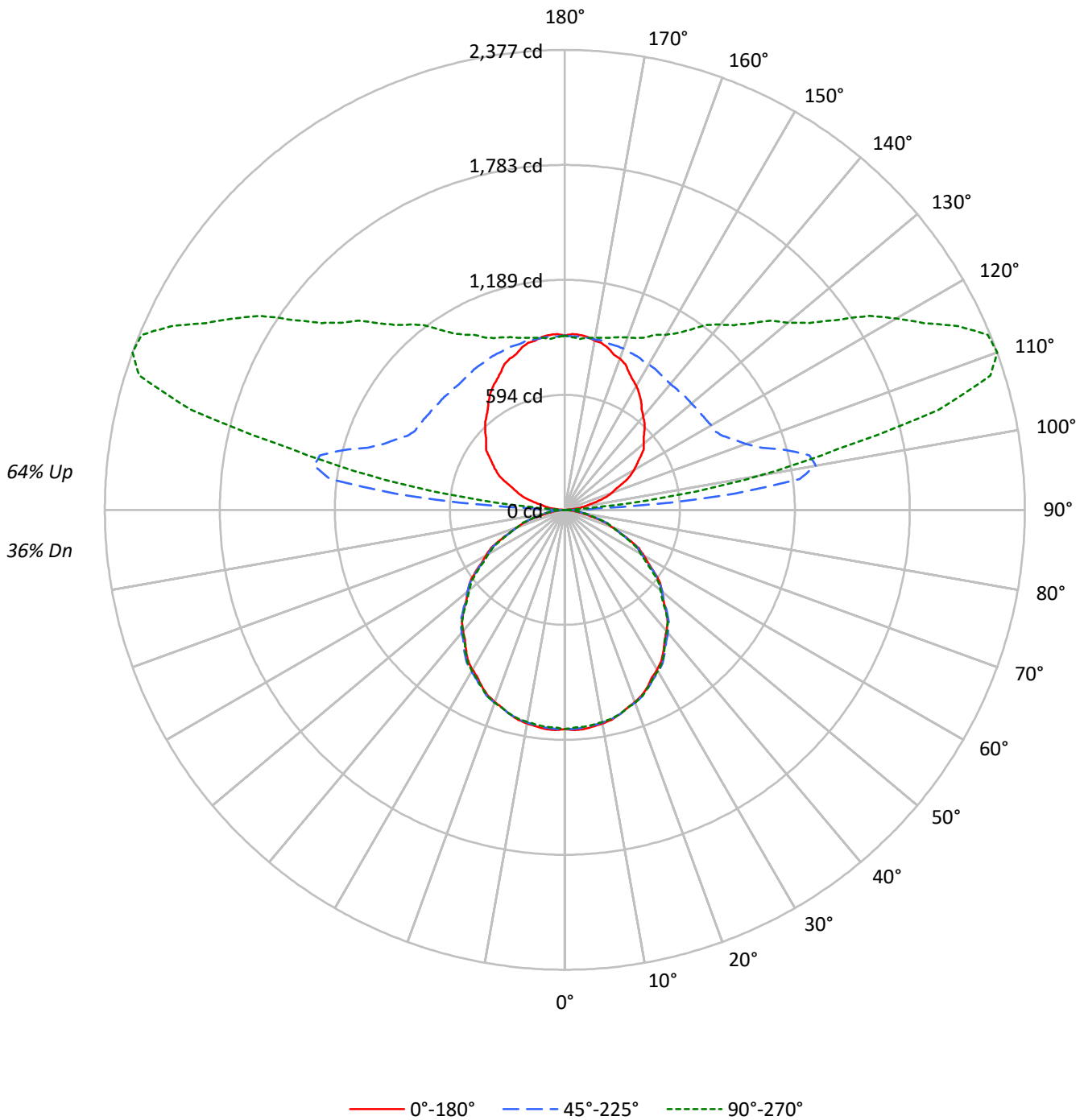
Lumens per Lamp: N/A
Luminaire Lumens: 8684.6 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.4
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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CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561689

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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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 36 |
| 1 | 95 | 90 | 87 | 83 | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 50 | 49 | 38 | 37 | 36 | 30 |
| 2 | 86 | 79 | 73 | 68 | 78 | 72 | 67 | 62 | 58 | 54 | 51 | 45 | 43 | 41 | 33 | 32 | 31 | 25 |
| 3 | 79 | 69 | 62 | 56 | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 34 | 30 | 28 | 26 | 21 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 45 | 40 | 36 | 35 | 32 | 29 | 26 | 24 | 22 | 18 |
| 5 | 66 | 54 | 46 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 32 | 28 | 25 | 24 | 21 | 19 | 16 |
| 6 | 60 | 49 | 41 | 35 | 55 | 44 | 37 | 32 | 36 | 31 | 27 | 29 | 25 | 22 | 21 | 19 | 17 | 14 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 33 | 28 | 24 | 26 | 22 | 19 | 20 | 17 | 15 | 12 |
| 8 | 52 | 40 | 32 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 11 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 21 | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9 |

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 |



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CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.2 | 1.2 |
| 10°-20° | 307.7 | 3.5 |
| 20°-30° | 466.0 | 5.4 |
| 30°-40° | 558.7 | 6.4 |
| 40°-50° | 569.6 | 6.6 |
| 50°-60° | 497.3 | 5.7 |
| 60°-70° | 356.0 | 4.1 |
| 70°-80° | 183.4 | 2.1 |
| 80°-90° | 46.4 | 0.5 |
| 90°-100° | 410.2 | 4.7 |
| 100°-110° | 1167.3 | 13.4 |
| 110°-120° | 1118.4 | 12.9 |
| 120°-130° | 885.2 | 10.2 |
| 130°-140° | 710.5 | 8.2 |
| 140°-150° | 556.2 | 6.4 |
| 150°-160° | 407.0 | 4.7 |
| 160°-170° | 252.1 | 2.9 |
| 170°-180° | 85.5 | 1.0 |
| 0°-30° | 880.9 | 10.1 |
| 0°-40° | 1439.6 | 16.6 |
| 0°-60° | 2506.5 | 28.9 |
| 0°-90° | 3092.3 | 35.6 |
| 90°-120° | 2695.9 | 31.0 |
| 90°-150° | 4847.7 | 55.8 |
| 90°-180° | 5592.0 | 64.4 |
| 0°-180° | 8684.6 | 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° | 44 | 177 | 794 | 275 | 169 | 51 |
| 105° | 181 | 275 | 1190 | 2101 | 1997 | 192 |
| 115° | 337 | 408 | 902 | 1911 | 2244 | 332 |
| 125° | 476 | 528 | 861 | 1429 | 1708 | 426 |
| 135° | 582 | 630 | 851 | 1207 | 1364 | 449 |
| 145° | 686 | 722 | 858 | 1044 | 1138 | 429 |
| 155° | 784 | 802 | 878 | 944 | 982 | 362 |
| 165° | 866 | 869 | 888 | 907 | 921 | 244 |
| 175° | 907 | 902 | 899 | 893 | 887 | 86 |
| 180° | 900 | 900 | 900 | 900 | 900 | |

TEST NUMBER: P561689

CATALOG NUMBER: SQ4-PC3-125U-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° | 13.7 | 72.6 | 168.4 | 49.0 | 37.0 |
| 95° | 44.5 | 176.7 | 794.2 | 274.9 | 169.4 |
| 97.5° | 81.8 | 207.0 | 1223.1 | 875.2 | 599.7 |
| 100° | 107.8 | 225.0 | 1316.2 | 1333.2 | 1026.9 |
| 102.5° | 136.6 | 244.4 | 1295.7 | 1706.5 | 1439.1 |
| 105° | 181.4 | 275.1 | 1189.5 | 2101.2 | 1997.4 |
| 107.5° | 227.0 | 311.0 | 1065.6 | 2212.4 | 2304.8 |
| 110° | 258.4 | 337.1 | 994.4 | 2169.9 | 2377.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 288.6 | 363.2 | 946.5 | 2069.2 | 2365.0 |
| 115° | 337.2 | 407.5 | 902.0 | 1910.8 | 2243.9 |
| 117.5° | 380.0 | 445.9 | 875.6 | 1737.7 | 2090.5 |
| 120° | 414.2 | 469.4 | 872.9 | 1638.8 | 1976.9 |
| 122.5° | 441.6 | 496.8 | 866.1 | 1552.0 | 1866.0 |
| 125° | 475.8 | 527.7 | 860.9 | 1428.7 | 1708.1 |
| 127.5° | 513.1 | 561.7 | 858.2 | 1355.0 | 1585.3 |
| 130° | 532.3 | 580.8 | 854.1 | 1303.6 | 1504.5 |
| 132.5° | 552.8 | 600.0 | 854.1 | 1263.6 | 1448.3 |
| 135° | 581.9 | 630.5 | 850.7 | 1206.8 | 1364.1 |
| 137.5° | 609.3 | 656.5 | 850.3 | 1158.7 | 1294.6 |
| 140° | 629.9 | 678.4 | 848.9 | 1118.9 | 1249.4 |
| 142.5° | 653.1 | 693.6 | 853.0 | 1087.1 | 1204.3 |
| 145° | 686.3 | 721.5 | 857.5 | 1044.5 | 1138.2 |
| 147.5° | 714.8 | 748.9 | 865.0 | 1001.4 | 1082.4 |
| 150° | 739.4 | 762.8 | 867.8 | 987.2 | 1044.1 |
| 152.5° | 758.6 | 783.3 | 870.5 | 967.9 | 1020.8 |
| 155° | 783.9 | 802.3 | 878.0 | 943.9 | 982.4 |
| 157.5° | 815.4 | 826.4 | 879.7 | 933.1 | 960.5 |
| 160° | 831.8 | 840.2 | 886.6 | 924.8 | 948.2 |
| 162.5° | 841.4 | 851.1 | 888.0 | 917.8 | 935.9 |
| 165° | 866.1 | 869.4 | 888.3 | 907.4 | 920.8 |
| 167.5° | 882.8 | 879.8 | 896.2 | 904.9 | 910.2 |
| 170° | 888.3 | 886.6 | 893.4 | 895.3 | 902.0 |
| 172.5° | 900.6 | 894.9 | 897.5 | 892.5 | 897.9 |
| 175° | 907.1 | 902.1 | 898.6 | 893.3 | 886.6 |
| 177.5° | 909.9 | 901.8 | 897.5 | 892.1 | 893.4 |
| 180° | 900.3 | 900.3 | 900.3 | 900.3 | 900.3 |

(END OF REPORT)