

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: P519633

Luminaire Tested: **SQ4-WB-150U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519633
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

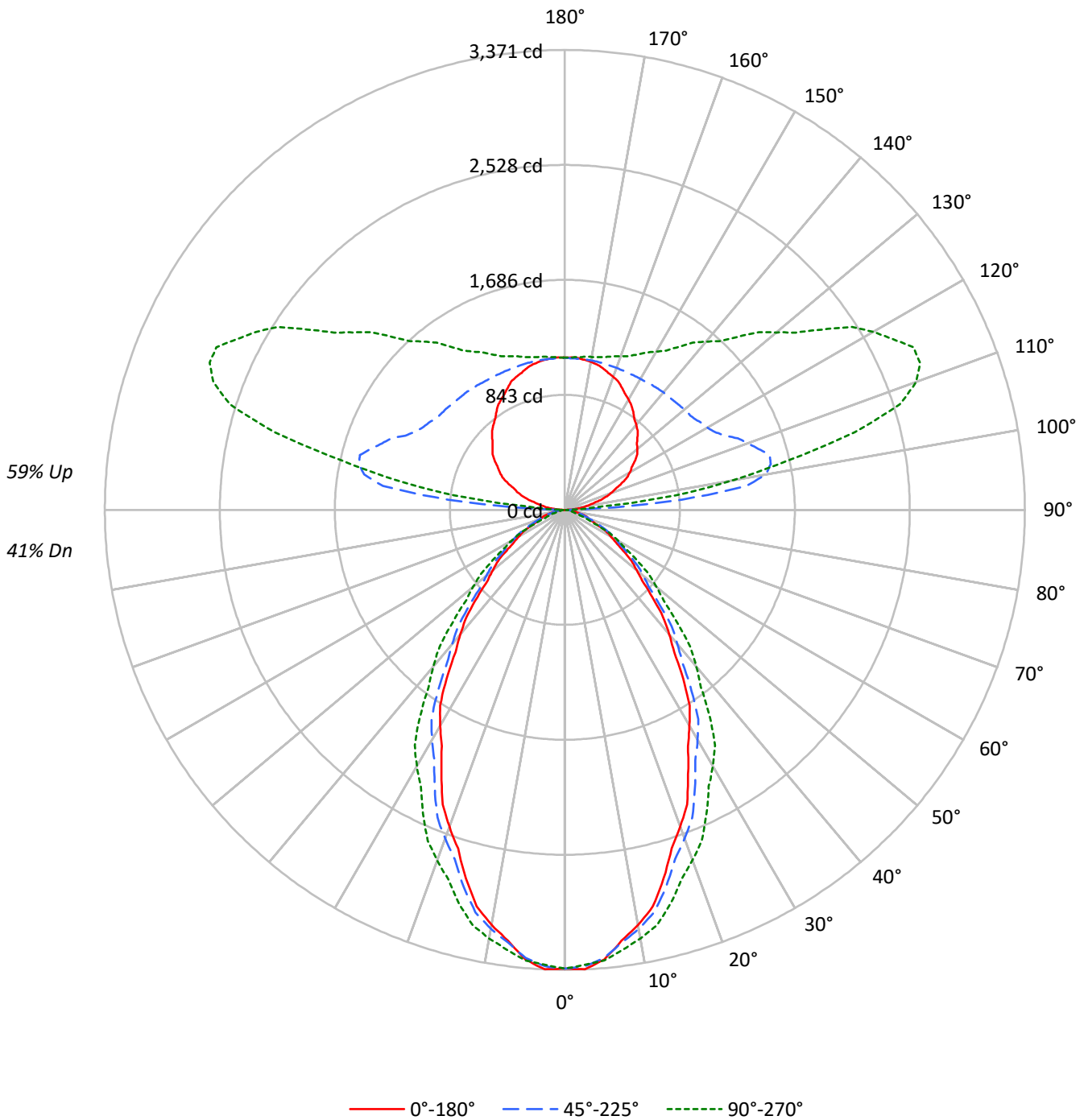
Lumens per Lamp: N/A
Luminaire Lumens: 12092.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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



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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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 41 | | | | 41 |
| 1 | 97 | 93 | 89 | 86 | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 56 | 55 | 53 | 43 | 43 | 42 | 36 | | | | 36 |
| 2 | 89 | 82 | 76 | 72 | 81 | 75 | 70 | 66 | 62 | 59 | 56 | 50 | 48 | 46 | 39 | 38 | 37 | 32 | | | | 32 |
| 3 | 82 | 73 | 66 | 61 | 74 | 67 | 61 | 57 | 56 | 52 | 48 | 45 | 43 | 40 | 36 | 34 | 32 | 28 | | | | 28 |
| 4 | 75 | 65 | 58 | 52 | 68 | 60 | 54 | 49 | 50 | 46 | 42 | 41 | 38 | 35 | 33 | 31 | 29 | 25 | | | | 25 |
| 5 | 69 | 59 | 51 | 46 | 63 | 54 | 48 | 43 | 45 | 41 | 37 | 37 | 34 | 31 | 30 | 28 | 26 | 22 | | | | 22 |
| 6 | 64 | 53 | 45 | 40 | 59 | 49 | 42 | 38 | 41 | 36 | 33 | 34 | 31 | 28 | 28 | 25 | 23 | 20 | | | | 20 |
| 7 | 59 | 48 | 41 | 35 | 54 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 28 | 25 | 25 | 23 | 21 | 18 | | | | 18 |
| 8 | 55 | 44 | 37 | 32 | 51 | 41 | 34 | 30 | 35 | 30 | 26 | 29 | 25 | 23 | 24 | 21 | 19 | 17 | | | | 17 |
| 9 | 52 | 40 | 33 | 28 | 47 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 22 | 19 | 18 | 15 | | | | 15 |
| 10 | 48 | 37 | 30 | 26 | 44 | 34 | 28 | 24 | 30 | 25 | 22 | 25 | 21 | 19 | 21 | 18 | 16 | 14 | | | | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20682 | 20682 | 20682 |
| 5° | 20424 | 20351 | 20470 |
| 10° | 19297 | 19472 | 19923 |
| 15° | 17813 | 18226 | 19044 |
| 20° | 16177 | 16785 | 17896 |
| 25° | 14509 | 15301 | 16672 |
| 30° | 12973 | 13822 | 15404 |
| 35° | 11344 | 12164 | 13904 |
| 40° | 9548 | 10306 | 12036 |
| 45° | 7880 | 8560 | 10049 |
| 50° | 6580 | 7172 | 8372 |
| 55° | 5585 | 6154 | 6915 |
| 60° | 4773 | 5336 | 5517 |
| 65° | 3802 | 4488 | 3564 |
| 70° | 3370 | 3503 | 2176 |
| 75° | 3120 | 2840 | 1333 |
| 80° | 2873 | 2614 | 1151 |
| 85° | 2604 | 2392 | 939 |



TEST NUMBER: P519633

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 308.4 | 2.6 |
| 10°-20° | 802.2 | 6.6 |
| 20°-30° | 1039.1 | 8.6 |
| 30°-40° | 1017.5 | 8.4 |
| 40°-50° | 778.9 | 6.4 |
| 50°-60° | 519.0 | 4.3 |
| 60°-70° | 283.2 | 2.3 |
| 70°-80° | 118.0 | 1.0 |
| 80°-90° | 35.7 | 0.3 |
| 90°-100° | 518.3 | 4.3 |
| 100°-110° | 1401.4 | 11.6 |
| 110°-120° | 1473.3 | 12.2 |
| 120°-130° | 1196.7 | 9.9 |
| 130°-140° | 938.7 | 7.8 |
| 140°-150° | 720.5 | 6.0 |
| 150°-160° | 518.2 | 4.3 |
| 160°-170° | 316.5 | 2.6 |
| 170°-180° | 106.7 | 0.9 |
| 0°-30° | 2149.7 | 17.8 |
| 0°-40° | 3167.3 | 26.2 |
| 0°-60° | 4465.1 | 36.9 |
| 0°-90° | 4902.1 | 40.5 |
| 90°-120° | 3393.0 | 28.1 |
| 90°-150° | 6249.0 | 51.7 |
| 90°-180° | 7190.0 | 59.5 |
| 0°-180° | 12092.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3362 | 3362 | 3362 | 3362 | 3362 | |
| 5° | 3308 | 3275 | 3296 | 3304 | 3315 | 308 |
| 15° | 2797 | 2787 | 2862 | 2940 | 2991 | 781 |
| 25° | 2138 | 2144 | 2254 | 2353 | 2457 | 983 |
| 35° | 1511 | 1518 | 1620 | 1729 | 1852 | 939 |
| 45° | 906 | 923 | 984 | 1059 | 1155 | 706 |
| 55° | 521 | 542 | 574 | 596 | 645 | 472 |
| 65° | 261 | 283 | 308 | 269 | 245 | 271 |
| 75° | 131 | 131 | 120 | 82 | 56 | 140 |
| 85° | 37 | 37 | 34 | 22 | 13 | 40 |
| 90° | 2 | 7 | 16 | 17 | 16 | 7 |
| 95° | 80 | 282 | 862 | 446 | 265 | 84 |
| 105° | 260 | 402 | 1555 | 2293 | 2199 | 274 |
| 115° | 459 | 561 | 1289 | 2496 | 2818 | 453 |
| 125° | 628 | 719 | 1162 | 1961 | 2304 | 560 |
| 135° | 753 | 842 | 1131 | 1583 | 1792 | 582 |
| 145° | 875 | 941 | 1115 | 1355 | 1459 | 547 |
| 155° | 988 | 1027 | 1106 | 1216 | 1256 | 456 |
| 165° | 1076 | 1086 | 1110 | 1154 | 1160 | 303 |
| 175° | 1116 | 1115 | 1112 | 1126 | 1124 | 106 |
| 180° | 1115 | 1115 | 1115 | 1115 | 1115 | |

TEST NUMBER: P519633

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3362.5 | 3362.5 | 3362.5 | 3362.5 | 3362.5 |
| 2.5° | 3370.8 | 3340.8 | 3348.4 | 3348.1 | 3338.9 |
| 5° | 3307.9 | 3274.7 | 3296.1 | 3303.8 | 3315.3 |
| 7.5° | 3185.2 | 3160.1 | 3199.0 | 3227.9 | 3251.3 |
| 10° | 3089.6 | 3067.9 | 3117.6 | 3159.6 | 3189.9 |
| 12.5° | 2978.6 | 2960.4 | 3022.0 | 3078.4 | 3117.9 |
| 15° | 2797.4 | 2787.3 | 2862.3 | 2940.2 | 2990.7 |
| 17.5° | 2603.6 | 2598.6 | 2684.7 | 2775.6 | 2840.2 |
| 20° | 2471.4 | 2469.9 | 2564.3 | 2659.0 | 2734.0 |
| 22.5° | 2338.0 | 2341.1 | 2440.4 | 2538.8 | 2624.2 |
| 25° | 2137.9 | 2143.7 | 2254.5 | 2352.7 | 2456.6 |
| 27.5° | 1952.9 | 1955.5 | 2070.0 | 2173.8 | 2284.6 |
| 30° | 1826.6 | 1833.8 | 1946.1 | 2053.5 | 2168.9 |
| 32.5° | 1700.3 | 1708.7 | 1818.6 | 1929.6 | 2047.3 |
| 35° | 1510.8 | 1518.1 | 1620.0 | 1729.0 | 1851.7 |
| 37.5° | 1315.5 | 1325.3 | 1415.8 | 1518.9 | 1639.5 |
| 40° | 1189.2 | 1203.6 | 1283.6 | 1380.7 | 1499.0 |
| 42.5° | 1067.6 | 1085.5 | 1159.7 | 1251.8 | 1358.6 |
| 45° | 905.9 | 923.2 | 984.1 | 1058.6 | 1155.3 |
| 47.5° | 766.6 | 786.5 | 833.3 | 897.5 | 980.0 |
| 50° | 687.6 | 706.3 | 749.5 | 797.0 | 874.9 |
| 52.5° | 617.9 | 636.7 | 675.2 | 711.8 | 778.1 |
| 55° | 520.8 | 542.5 | 573.9 | 595.7 | 644.8 |
| 57.5° | 441.2 | 461.9 | 486.9 | 496.7 | 526.4 |
| 60° | 388.0 | 411.1 | 433.8 | 432.7 | 448.5 |
| 62.5° | 339.6 | 359.3 | 381.8 | 366.2 | 367.1 |
| 65° | 261.2 | 282.8 | 308.4 | 269.4 | 244.9 |
| 67.5° | 211.0 | 215.6 | 242.0 | 187.9 | 158.8 |
| 70° | 187.4 | 187.4 | 194.8 | 145.5 | 121.0 |
| 72.5° | 165.0 | 165.0 | 158.2 | 118.3 | 92.7 |
| 75° | 131.3 | 131.3 | 119.5 | 82.0 | 56.1 |
| 77.5° | 101.2 | 100.1 | 91.5 | 61.2 | 40.7 |
| 80° | 81.1 | 81.1 | 73.8 | 48.3 | 32.5 |
| 82.5° | 63.4 | 63.4 | 57.2 | 37.8 | 24.2 |
| 85° | 36.9 | 36.9 | 33.9 | 21.9 | 13.3 |
| 87.5° | 13.5 | 14.4 | 14.9 | 10.4 | 9.0 |
| 90° | 2.4 | 7.1 | 15.6 | 16.8 | 15.6 |
| 92.5° | 34.1 | 124.2 | 245.1 | 106.4 | 77.1 |
| 95° | 80.4 | 282.3 | 861.9 | 446.1 | 265.3 |
| 97.5° | 129.2 | 323.8 | 1343.6 | 1111.9 | 816.6 |
| 100° | 165.7 | 340.6 | 1493.4 | 1557.4 | 1259.3 |
| 102.5° | 199.3 | 363.8 | 1546.2 | 1895.3 | 1672.3 |
| 105° | 260.5 | 402.5 | 1554.6 | 2293.2 | 2199.3 |
| 107.5° | 317.2 | 446.8 | 1486.7 | 2541.4 | 2572.6 |
| 110° | 361.3 | 478.7 | 1426.2 | 2608.0 | 2740.7 |



TEST NUMBER: P519633

CATALOG NUMBER: SQ4-WB-150U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 400.7 | 510.6 | 1370.5 | 2594.7 | 2817.5 |
| 115° | 458.6 | 560.7 | 1289.3 | 2495.9 | 2817.5 |
| 117.5° | 515.2 | 611.0 | 1235.8 | 2344.9 | 2709.5 |
| 120° | 549.8 | 643.7 | 1204.1 | 2236.5 | 2608.6 |
| 122.5° | 582.5 | 674.5 | 1184.9 | 2120.4 | 2495.3 |
| 125° | 627.8 | 719.4 | 1162.1 | 1961.0 | 2303.7 |
| 127.5° | 669.6 | 759.5 | 1148.6 | 1830.9 | 2132.3 |
| 130° | 692.7 | 785.4 | 1142.9 | 1750.5 | 2022.8 |
| 132.5° | 716.7 | 808.5 | 1137.1 | 1678.0 | 1928.7 |
| 135° | 752.7 | 841.9 | 1130.8 | 1583.4 | 1792.3 |
| 137.5° | 789.0 | 873.2 | 1125.6 | 1506.6 | 1676.8 |
| 140° | 813.9 | 892.6 | 1123.6 | 1457.2 | 1608.6 |
| 142.5° | 837.9 | 911.9 | 1119.8 | 1412.6 | 1545.3 |
| 145° | 875.1 | 940.9 | 1115.2 | 1355.3 | 1458.6 |
| 147.5° | 909.0 | 967.2 | 1110.0 | 1303.4 | 1382.7 |
| 150° | 934.0 | 985.6 | 1108.0 | 1275.1 | 1338.5 |
| 152.5° | 957.0 | 1002.1 | 1107.1 | 1249.0 | 1301.1 |
| 155° | 988.0 | 1026.7 | 1105.6 | 1215.8 | 1255.7 |
| 157.5° | 1020.2 | 1047.2 | 1105.9 | 1192.7 | 1219.0 |
| 160° | 1038.4 | 1060.7 | 1106.8 | 1178.1 | 1196.9 |
| 162.5° | 1052.8 | 1071.4 | 1107.8 | 1166.5 | 1180.5 |
| 165° | 1075.6 | 1086.2 | 1110.4 | 1153.8 | 1159.7 |
| 167.5° | 1091.2 | 1098.5 | 1110.7 | 1142.9 | 1145.7 |
| 170° | 1100.8 | 1104.4 | 1111.6 | 1138.1 | 1138.1 |
| 172.5° | 1108.5 | 1109.2 | 1111.6 | 1132.3 | 1131.3 |
| 175° | 1116.4 | 1115.3 | 1111.6 | 1126.0 | 1123.6 |
| 177.5° | 1119.1 | 1116.3 | 1111.4 | 1120.9 | 1118.1 |
| 180° | 1115.2 | 1115.2 | 1115.2 | 1115.2 | 1115.2 |

(END OF REPORT)