

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: P519758

Luminaire Tested: **SQ4-125U-0D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519758
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-125U-0D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

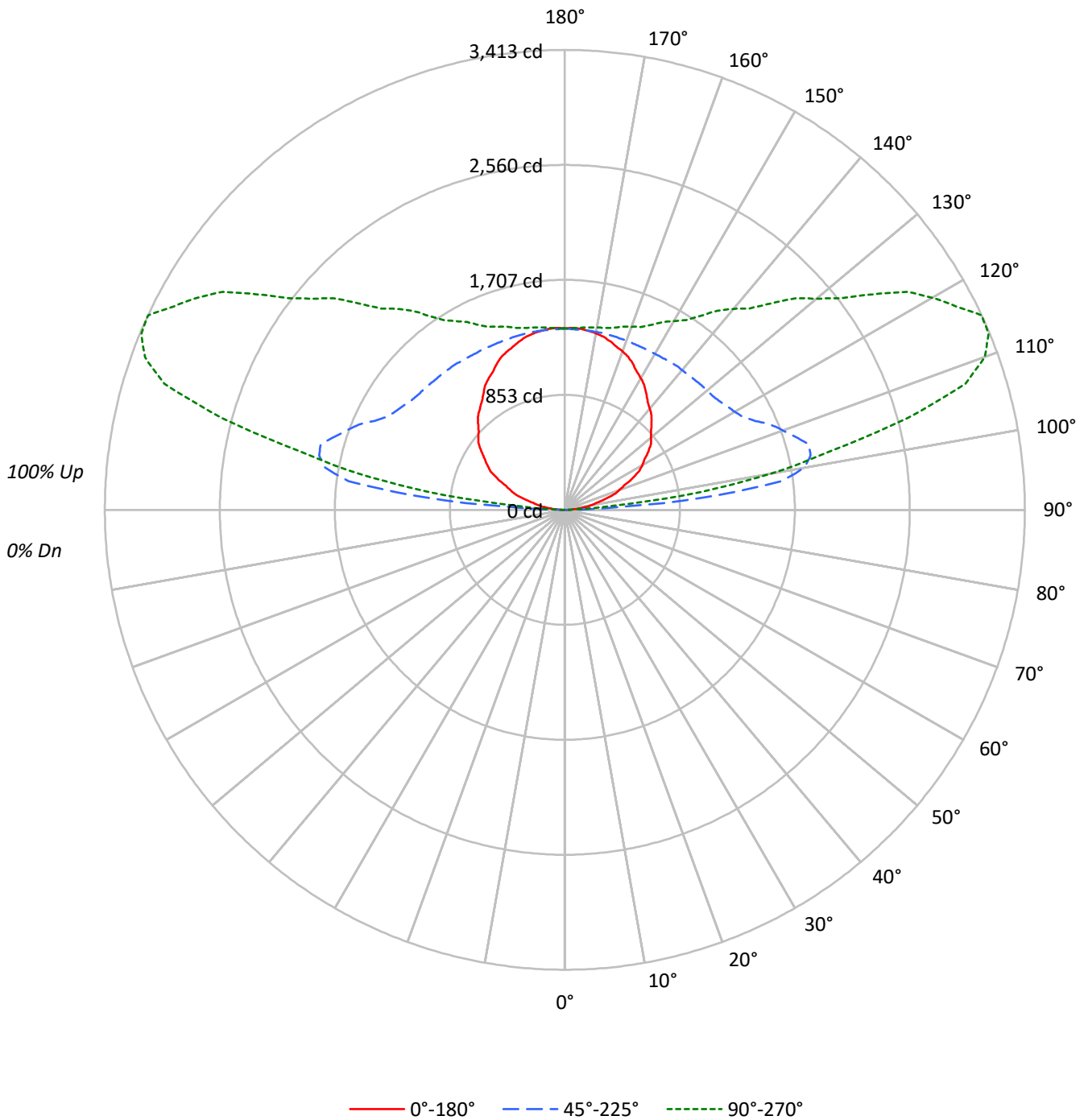
Lumens per Lamp: N/A
Luminaire Lumens: 8687.7 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

Input Watts (W): 61.6
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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|------|------|-------|-------|
| 95° | 5081 | 54623 | 19330 |
| 100° | 5239 | 47957 | 41626 |
| 105° | 5591 | 33428 | 46935 |
| 110° | 5804 | 23238 | 44720 |
| 115° | 6044 | 17048 | 37258 |
| 120° | 6137 | 13429 | 29056 |
| 125° | 6080 | 11278 | 22433 |
| 130° | 6004 | 9892 | 17483 |
| 135° | 5939 | 8891 | 14126 |
| 140° | 5905 | 8156 | 11728 |
| 145° | 5928 | 7579 | 9886 |
| 150° | 6009 | 7123 | 8611 |
| 155° | 6082 | 6789 | 7705 |
| 160° | 6144 | 6556 | 7095 |
| 165° | 6190 | 6394 | 6681 |
| 170° | 6231 | 6280 | 6432 |
| 175° | 6240 | 6208 | 6280 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 629.6 | 7.2 |
| 100°-110° | 1695.9 | 19.5 |
| 110°-120° | 1779.8 | 20.5 |
| 120°-130° | 1444.2 | 16.6 |
| 130°-140° | 1132.7 | 13.0 |
| 140°-150° | 869.6 | 10.0 |
| 150°-160° | 625.2 | 7.2 |
| 160°-170° | 382.0 | 4.4 |
| 170°-180° | 128.8 | 1.5 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.0 | 0.0 |
| 90°-120° | 4105.2 | 47.3 |
| 90°-150° | 7551.7 | 86.9 |
| 90°-180° | 8688.0 | 100.0 |
| 0°-180° | 8687.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 90° | 3 | 10 | 21 | 22 | 22 | |
| 95° | 96 | 342 | 1032 | 528 | 365 | 106 |
| 105° | 314 | 488 | 1876 | 2806 | 2633 | 330 |
| 115° | 554 | 678 | 1562 | 3018 | 3413 | 545 |
| 125° | 756 | 868 | 1402 | 2370 | 2789 | 675 |
| 135° | 910 | 1016 | 1363 | 1912 | 2165 | 703 |
| 145° | 1053 | 1135 | 1346 | 1635 | 1756 | 660 |
| 155° | 1195 | 1238 | 1334 | 1467 | 1514 | 550 |
| 165° | 1296 | 1311 | 1339 | 1392 | 1399 | 365 |
| 175° | 1348 | 1346 | 1341 | 1359 | 1356 | 128 |
| 180° | 1346 | 1346 | 1346 | 1346 | 1346 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 90° | 3.4 | 10.1 | 20.6 | 22.3 | 22.3 |
| 92.5° | 41.8 | 147.8 | 292.1 | 140.6 | 97.7 |
| 95° | 96.0 | 342.4 | 1032.0 | 527.8 | 365.2 |
| 97.5° | 153.3 | 392.0 | 1618.7 | 1352.3 | 1019.7 |
| 100° | 197.2 | 411.7 | 1805.2 | 1888.8 | 1566.9 |
| 102.5° | 239.7 | 439.5 | 1866.9 | 2290.6 | 2026.4 |
| 105° | 313.7 | 488.1 | 1875.5 | 2805.9 | 2633.3 |
| 107.5° | 383.7 | 539.2 | 1795.6 | 3070.7 | 3115.3 |
| 110° | 430.3 | 577.8 | 1722.9 | 3153.0 | 3315.6 |
| 112.5° | 479.7 | 616.5 | 1653.0 | 3134.8 | 3402.0 |
| 115° | 553.7 | 677.8 | 1561.8 | 3017.7 | 3413.3 |
| 117.5° | 621.3 | 737.6 | 1491.2 | 2830.8 | 3271.3 |
| 120° | 665.2 | 777.5 | 1455.5 | 2696.7 | 3149.3 |
| 122.5° | 703.6 | 814.5 | 1429.4 | 2559.5 | 3010.8 |
| 125° | 756.0 | 868.3 | 1402.3 | 2370.2 | 2789.3 |
| 127.5° | 806.4 | 917.1 | 1385.2 | 2203.2 | 2577.4 |
| 130° | 836.6 | 947.2 | 1378.3 | 2107.6 | 2436.1 |
| 132.5° | 866.8 | 976.1 | 1371.5 | 2023.3 | 2325.0 |
| 135° | 910.3 | 1015.9 | 1362.9 | 1912.1 | 2165.2 |
| 137.5° | 951.8 | 1053.1 | 1358.5 | 1817.8 | 2025.7 |
| 140° | 980.6 | 1077.8 | 1354.3 | 1759.8 | 1947.5 |
| 142.5° | 1010.8 | 1101.3 | 1351.6 | 1705.6 | 1863.9 |
| 145° | 1052.6 | 1134.8 | 1345.8 | 1634.8 | 1755.5 |
| 147.5° | 1097.9 | 1169.3 | 1339.9 | 1575.3 | 1670.1 |
| 150° | 1128.0 | 1190.1 | 1337.2 | 1537.9 | 1616.6 |
| 152.5° | 1155.5 | 1209.5 | 1335.8 | 1507.3 | 1571.4 |
| 155° | 1194.9 | 1238.5 | 1333.8 | 1466.8 | 1513.8 |
| 157.5° | 1229.5 | 1263.4 | 1334.1 | 1438.4 | 1469.9 |
| 160° | 1251.5 | 1280.0 | 1335.5 | 1421.7 | 1445.2 |
| 162.5° | 1270.7 | 1293.8 | 1336.9 | 1407.9 | 1424.6 |
| 165° | 1296.1 | 1311.1 | 1338.9 | 1392.2 | 1398.9 |
| 167.5° | 1316.6 | 1325.3 | 1340.6 | 1380.1 | 1382.8 |
| 170° | 1330.3 | 1333.7 | 1340.6 | 1373.2 | 1373.2 |
| 172.5° | 1338.6 | 1339.2 | 1342.0 | 1366.3 | 1366.3 |
| 175° | 1347.5 | 1345.8 | 1340.6 | 1359.4 | 1356.1 |
| 177.5° | 1351.3 | 1348.6 | 1341.7 | 1352.6 | 1349.9 |
| 180° | 1345.8 | 1345.8 | 1345.8 | 1345.8 | 1345.8 |

(END OF REPORT)