

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: P519769

Luminaire Tested: **SQ4-150U-0D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519769
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-150U-0D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

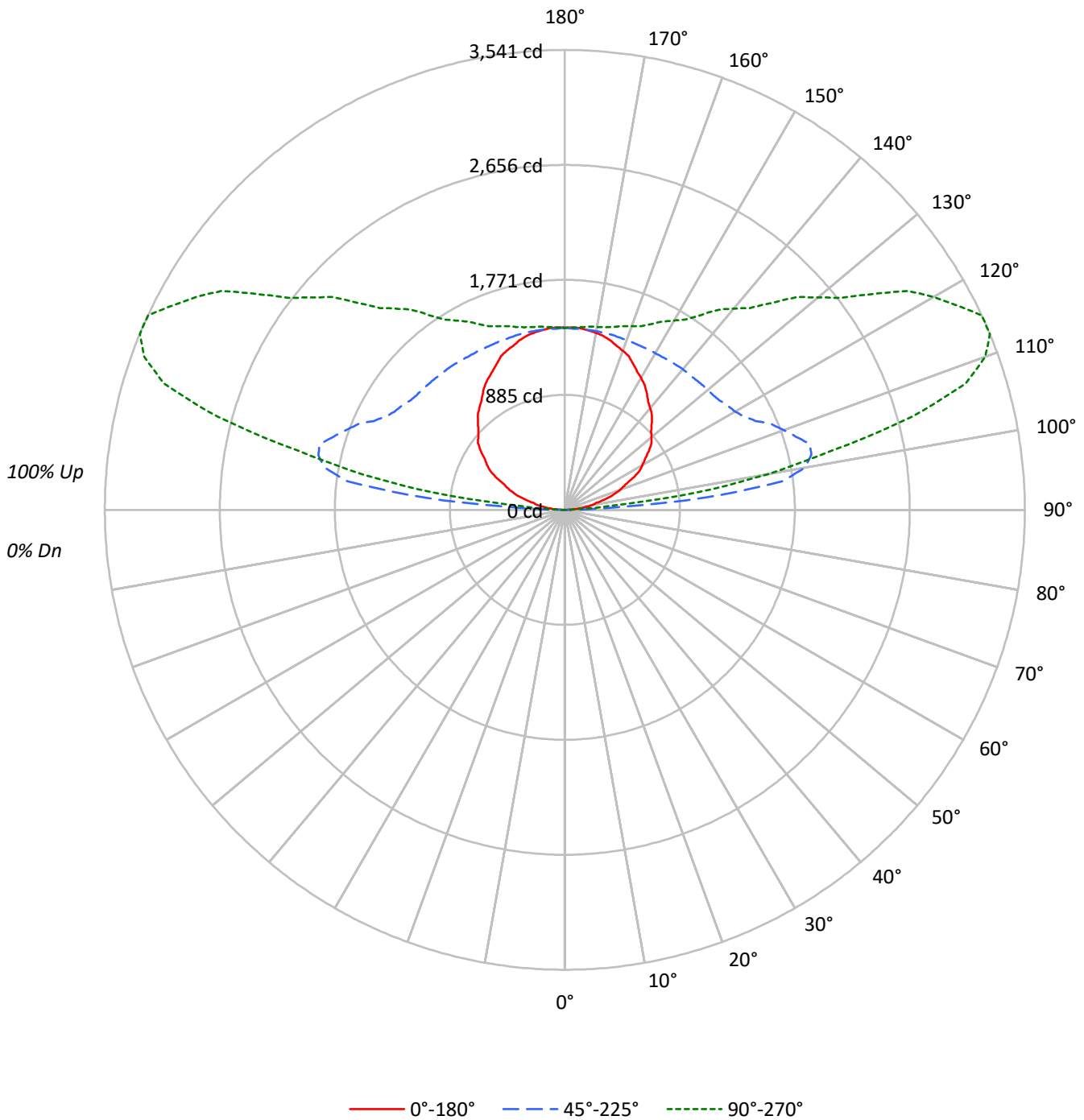
Lumens per Lamp: N/A
Luminaire Lumens: 9035.9 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Indirect

Input Watts (W): 57.4
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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Luminous Intensity Polar Plot





TEST NUMBER: P519769

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|
| RF | 20 | | | | | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | | | | | 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° | 7135 | 76444 | 23529 |
| 100° | 7375 | 66475 | 56054 |
| 105° | 7781 | 46427 | 65681 |
| 110° | 8166 | 32230 | 61938 |
| 115° | 8387 | 23580 | 51531 |
| 120° | 8499 | 18614 | 40327 |
| 125° | 8461 | 15660 | 31045 |
| 130° | 8330 | 13743 | 24324 |
| 135° | 8228 | 12362 | 19592 |
| 140° | 8212 | 11338 | 16231 |
| 145° | 8258 | 10524 | 13764 |
| 150° | 8336 | 9889 | 11947 |
| 155° | 8426 | 9429 | 10709 |
| 160° | 8541 | 9104 | 9845 |
| 165° | 8607 | 8886 | 9280 |
| 170° | 8640 | 8725 | 8933 |
| 175° | 8663 | 8625 | 8719 |



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CATALOG NUMBER: SQ4-150U-0D-835-1D-UNV-STD-W-6

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° | 651.3 | 7.2 |
| 100°-110° | 1761.1 | 19.5 |
| 110°-120° | 1851.5 | 20.5 |
| 120°-130° | 1503.9 | 16.6 |
| 130°-140° | 1179.7 | 13.1 |
| 140°-150° | 905.4 | 10.0 |
| 150°-160° | 651.2 | 7.2 |
| 160°-170° | 397.8 | 4.4 |
| 170°-180° | 134.1 | 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° | 4263.9 | 47.2 |
| 90°-150° | 7852.9 | 86.9 |
| 90°-180° | 9036.0 | 100.0 |
| 0°-180° | 9035.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 90° | 3 | 9 | 20 | 21 | 20 | |
| 95° | 101 | 355 | 1083 | 561 | 333 | 112 |
| 105° | 327 | 506 | 1954 | 2882 | 2764 | 345 |
| 115° | 576 | 705 | 1620 | 3136 | 3541 | 569 |
| 125° | 789 | 904 | 1460 | 2464 | 2895 | 703 |
| 135° | 946 | 1058 | 1421 | 1990 | 2252 | 731 |
| 145° | 1100 | 1182 | 1402 | 1703 | 1833 | 688 |
| 155° | 1242 | 1290 | 1389 | 1528 | 1578 | 573 |
| 165° | 1352 | 1365 | 1396 | 1450 | 1457 | 381 |
| 175° | 1403 | 1402 | 1397 | 1415 | 1412 | 133 |
| 180° | 1402 | 1402 | 1402 | 1402 | 1402 | |



TEST NUMBER: P519769

CATALOG NUMBER: SQ4-150U-OD-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 90° | 3.0 | 8.9 | 19.6 | 21.1 | 19.6 |
| 92.5° | 42.8 | 156.1 | 308.1 | 133.7 | 96.9 |
| 95° | 101.1 | 354.8 | 1083.2 | 560.6 | 333.4 |
| 97.5° | 162.3 | 406.9 | 1688.4 | 1397.3 | 1026.2 |
| 100° | 208.2 | 428.0 | 1876.7 | 1957.2 | 1582.5 |
| 102.5° | 250.4 | 457.2 | 1943.1 | 2381.7 | 2101.5 |
| 105° | 327.4 | 505.9 | 1953.6 | 2881.8 | 2763.8 |
| 107.5° | 398.6 | 561.4 | 1868.3 | 3193.7 | 3232.9 |
| 110° | 454.1 | 601.6 | 1792.2 | 3277.5 | 3444.1 |
| 112.5° | 503.6 | 641.6 | 1722.2 | 3260.7 | 3540.7 |
| 115° | 576.3 | 704.6 | 1620.2 | 3136.5 | 3540.7 |
| 117.5° | 647.5 | 767.9 | 1553.0 | 2946.8 | 3404.9 |
| 120° | 690.9 | 808.9 | 1513.1 | 2810.6 | 3278.2 |
| 122.5° | 732.0 | 847.6 | 1489.0 | 2664.6 | 3135.8 |
| 125° | 789.0 | 904.1 | 1460.3 | 2464.3 | 2895.0 |
| 127.5° | 841.5 | 954.5 | 1443.4 | 2300.8 | 2679.6 |
| 130° | 870.5 | 987.0 | 1436.2 | 2199.8 | 2542.0 |
| 132.5° | 900.6 | 1016.0 | 1428.9 | 2108.6 | 2423.7 |
| 135° | 945.9 | 1058.0 | 1421.1 | 1989.8 | 2252.3 |
| 137.5° | 991.5 | 1097.4 | 1414.5 | 1893.3 | 2107.2 |
| 140° | 1022.8 | 1121.7 | 1412.1 | 1831.2 | 2021.5 |
| 142.5° | 1053.0 | 1145.9 | 1407.2 | 1775.2 | 1941.9 |
| 145° | 1099.8 | 1182.4 | 1401.5 | 1703.1 | 1833.0 |
| 147.5° | 1142.3 | 1215.5 | 1394.9 | 1637.9 | 1737.6 |
| 150° | 1173.7 | 1238.6 | 1392.4 | 1602.4 | 1682.1 |
| 152.5° | 1202.7 | 1259.3 | 1391.2 | 1569.5 | 1635.0 |
| 155° | 1241.6 | 1290.3 | 1389.4 | 1527.8 | 1578.0 |
| 157.5° | 1282.0 | 1315.9 | 1389.7 | 1498.8 | 1531.8 |
| 160° | 1304.9 | 1333.0 | 1390.9 | 1480.5 | 1504.1 |
| 162.5° | 1323.0 | 1346.3 | 1392.1 | 1465.9 | 1483.6 |
| 165° | 1351.7 | 1365.0 | 1395.5 | 1449.9 | 1457.3 |
| 167.5° | 1371.3 | 1380.5 | 1395.8 | 1436.3 | 1439.8 |
| 170° | 1383.4 | 1387.8 | 1397.0 | 1430.2 | 1430.2 |
| 172.5° | 1393.0 | 1393.9 | 1397.0 | 1422.9 | 1421.7 |
| 175° | 1403.0 | 1401.5 | 1397.0 | 1415.0 | 1412.1 |
| 177.5° | 1406.3 | 1402.8 | 1396.7 | 1408.7 | 1405.1 |
| 180° | 1401.5 | 1401.5 | 1401.5 | 1401.5 | 1401.5 |

(END OF REPORT)