

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: P563779

Luminaire Tested: **SQ4-PP3-150U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563779
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

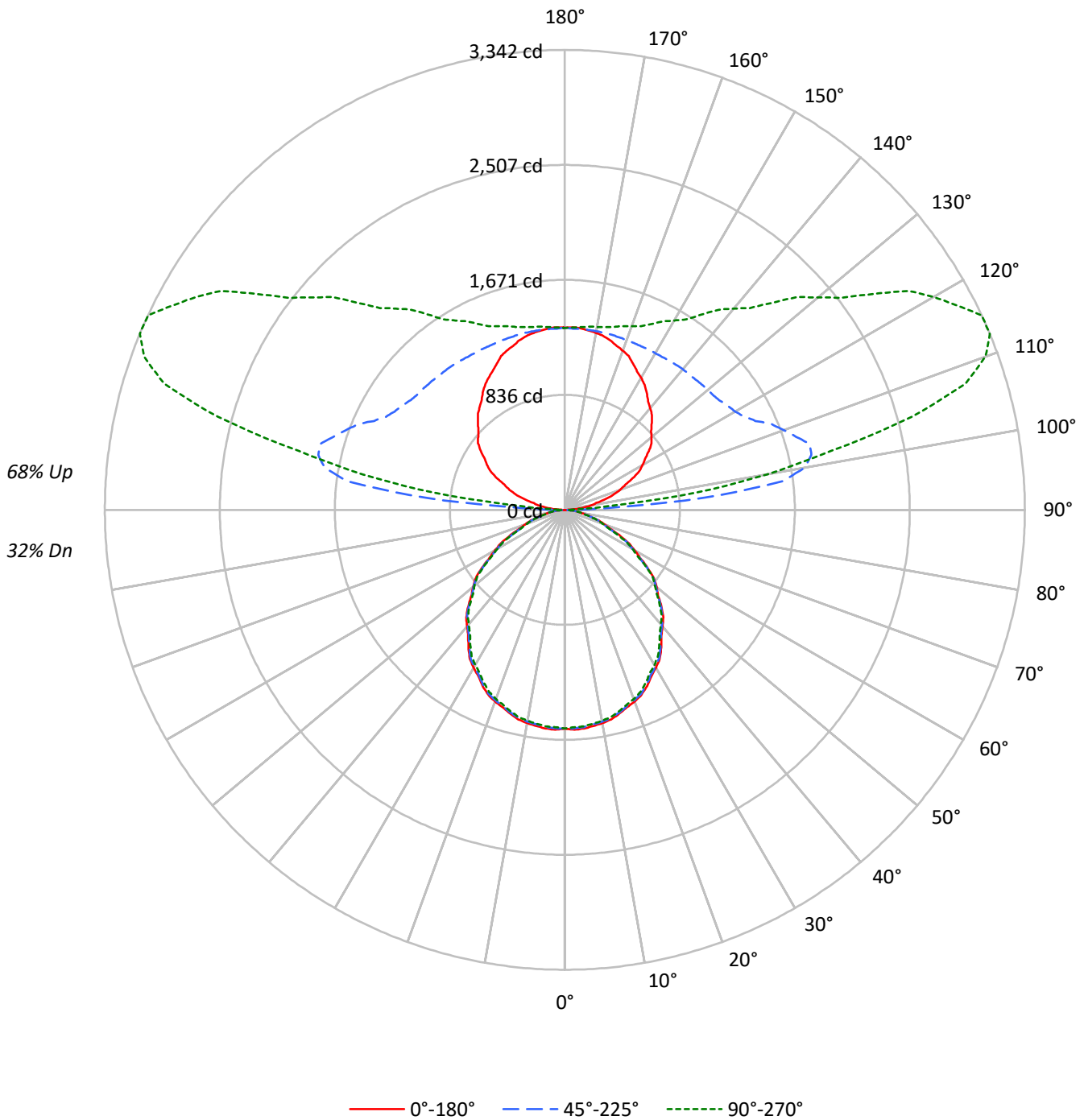
Lumens per Lamp: N/A
Luminaire Lumens: 12599.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 65 | 62 | 60 | 49 | 48 | 47 | 35 | 35 | 34 | 27 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 52 | 50 | 46 | 42 | 38 | 36 | 33 | 28 | 26 | 25 | 20 |
| 4 | 71 | 61 | 53 | 48 | 64 | 55 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 41 | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 27 | 25 | 22 | 20 | 18 | 15 |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 32 | 27 | 24 | 25 | 22 | 19 | 19 | 16 | 14 | 12 |
| 8 | 51 | 40 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 15 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 13 | 12 | 9 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9775 | 9775 | 9775 |
| 5° | 9847 | 9787 | 9753 |
| 10° | 9831 | 9761 | 9718 |
| 15° | 9766 | 9713 | 9659 |
| 20° | 9701 | 9646 | 9574 |
| 25° | 9585 | 9520 | 9425 |
| 30° | 9408 | 9359 | 9240 |
| 35° | 9162 | 9100 | 8984 |
| 40° | 8869 | 8813 | 8713 |
| 45° | 8627 | 8566 | 8482 |
| 50° | 8317 | 8264 | 8184 |
| 55° | 7887 | 7782 | 7723 |
| 60° | 7179 | 6974 | 6939 |
| 65° | 6325 | 6062 | 6041 |
| 70° | 5462 | 5235 | 5235 |
| 75° | 4701 | 4634 | 4568 |
| 80° | 4144 | 4194 | 4095 |
| 85° | 3246 | 3536 | 3536 |



TEST NUMBER: P563779

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 150.3 | 1.2 |
| 10°-20° | 429.1 | 3.4 |
| 20°-30° | 642.8 | 5.1 |
| 30°-40° | 753.9 | 6.0 |
| 40°-50° | 756.3 | 6.0 |
| 50°-60° | 645.2 | 5.1 |
| 60°-70° | 420.8 | 3.3 |
| 70°-80° | 211.1 | 1.7 |
| 80°-90° | 61.2 | 0.5 |
| 90°-100° | 614.8 | 4.9 |
| 100°-110° | 1662.2 | 13.2 |
| 110°-120° | 1747.6 | 13.9 |
| 120°-130° | 1419.5 | 11.3 |
| 130°-140° | 1113.5 | 8.8 |
| 140°-150° | 854.6 | 6.8 |
| 150°-160° | 614.6 | 4.9 |
| 160°-170° | 375.5 | 3.0 |
| 170°-180° | 126.6 | 1.0 |
| 0°-30° | 1222.2 | 9.7 |
| 0°-40° | 1976.1 | 15.7 |
| 0°-60° | 3377.6 | 26.8 |
| 0°-90° | 4070.6 | 32.3 |
| 90°-120° | 4024.6 | 31.9 |
| 90°-150° | 7412.3 | 58.8 |
| 90°-180° | 8529.0 | 67.7 |
| 0°-180° | 12599.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1589 | 1589 | 1589 | 1589 | 1589 | |
| 5° | 1595 | 1580 | 1585 | 1580 | 1580 | 151 |
| 15° | 1534 | 1519 | 1525 | 1520 | 1517 | 433 |
| 25° | 1412 | 1396 | 1403 | 1390 | 1389 | 649 |
| 35° | 1220 | 1208 | 1212 | 1198 | 1196 | 762 |
| 45° | 992 | 985 | 985 | 975 | 975 | 764 |
| 55° | 736 | 733 | 726 | 722 | 720 | 654 |
| 65° | 435 | 426 | 416 | 414 | 415 | 434 |
| 75° | 198 | 198 | 195 | 194 | 192 | 215 |
| 85° | 46 | 50 | 50 | 50 | 50 | 54 |
| 90° | 3 | 8 | 18 | 20 | 18 | 8 |
| 95° | 95 | 335 | 1022 | 529 | 315 | 100 |
| 105° | 309 | 478 | 1844 | 2720 | 2609 | 325 |
| 115° | 544 | 665 | 1529 | 2960 | 3342 | 537 |
| 125° | 745 | 853 | 1378 | 2326 | 2733 | 664 |
| 135° | 893 | 999 | 1341 | 1878 | 2126 | 690 |
| 145° | 1038 | 1116 | 1323 | 1608 | 1730 | 649 |
| 155° | 1172 | 1218 | 1312 | 1442 | 1490 | 541 |
| 165° | 1276 | 1288 | 1317 | 1369 | 1376 | 359 |
| 175° | 1324 | 1323 | 1319 | 1336 | 1333 | 126 |
| 180° | 1323 | 1323 | 1323 | 1323 | 1323 | |

TEST NUMBER: P563779

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1589.3 | 1589.3 | 1589.3 | 1589.3 | 1589.3 |
| 2.5° | 1599.4 | 1586.3 | 1589.3 | 1587.0 | 1580.4 |
| 5° | 1594.9 | 1579.9 | 1585.2 | 1579.6 | 1579.6 |
| 7.5° | 1584.1 | 1567.7 | 1572.9 | 1567.3 | 1567.1 |
| 10° | 1574.0 | 1557.7 | 1562.9 | 1557.3 | 1555.9 |
| 12.5° | 1559.5 | 1543.2 | 1549.5 | 1542.8 | 1542.5 |
| 15° | 1533.6 | 1518.6 | 1525.3 | 1519.6 | 1516.9 |
| 17.5° | 1504.4 | 1488.0 | 1496.0 | 1488.2 | 1487.1 |
| 20° | 1482.1 | 1465.7 | 1473.7 | 1462.6 | 1462.6 |
| 22.5° | 1455.3 | 1439.0 | 1448.1 | 1433.6 | 1433.6 |
| 25° | 1412.4 | 1396.1 | 1402.7 | 1390.1 | 1388.8 |
| 27.5° | 1361.5 | 1345.4 | 1352.3 | 1338.1 | 1337.8 |
| 30° | 1324.7 | 1309.7 | 1317.7 | 1302.4 | 1301.0 |
| 32.5° | 1284.6 | 1270.7 | 1276.5 | 1261.1 | 1259.8 |
| 35° | 1220.2 | 1208.0 | 1211.9 | 1197.9 | 1196.5 |
| 37.5° | 1152.5 | 1140.0 | 1144.4 | 1132.5 | 1131.9 |
| 40° | 1104.6 | 1096.4 | 1097.6 | 1087.8 | 1085.1 |
| 42.5° | 1060.0 | 1050.8 | 1052.0 | 1042.2 | 1041.6 |
| 45° | 991.8 | 985.0 | 984.8 | 975.1 | 975.1 |
| 47.5° | 919.3 | 914.2 | 912.7 | 904.6 | 904.3 |
| 50° | 869.2 | 865.1 | 863.6 | 856.6 | 855.3 |
| 52.5° | 816.8 | 814.9 | 810.1 | 804.3 | 804.0 |
| 55° | 735.5 | 732.7 | 725.7 | 721.5 | 720.2 |
| 57.5° | 647.2 | 641.7 | 633.8 | 627.7 | 628.8 |
| 60° | 583.6 | 578.2 | 566.9 | 564.1 | 564.1 |
| 62.5° | 522.4 | 515.8 | 504.5 | 500.7 | 502.9 |
| 65° | 434.6 | 426.4 | 416.5 | 413.7 | 415.1 |
| 67.5° | 354.9 | 347.6 | 336.8 | 336.8 | 335.7 |
| 70° | 303.7 | 299.6 | 291.1 | 291.1 | 291.1 |
| 72.5° | 258.0 | 256.1 | 249.9 | 249.9 | 248.8 |
| 75° | 197.8 | 197.8 | 195.0 | 193.6 | 192.2 |
| 77.5° | 148.2 | 148.8 | 147.4 | 145.9 | 143.5 |
| 80° | 117.0 | 119.7 | 118.4 | 117.0 | 115.6 |
| 82.5° | 88.0 | 90.8 | 90.5 | 88.0 | 87.8 |
| 85° | 46.0 | 50.1 | 50.1 | 50.1 | 50.1 |
| 87.5° | 12.8 | 18.3 | 21.5 | 21.8 | 22.6 |
| 90° | 2.8 | 8.4 | 18.5 | 19.9 | 18.5 |
| 92.5° | 40.4 | 147.4 | 290.8 | 126.2 | 91.4 |
| 95° | 95.4 | 334.9 | 1022.4 | 529.1 | 314.7 |
| 97.5° | 153.2 | 384.1 | 1593.7 | 1318.9 | 968.6 |
| 100° | 196.5 | 404.0 | 1771.4 | 1847.4 | 1493.7 |
| 102.5° | 236.4 | 431.6 | 1834.1 | 2248.1 | 1983.6 |
| 105° | 309.0 | 477.5 | 1844.0 | 2720.1 | 2608.7 |
| 107.5° | 376.2 | 529.9 | 1763.4 | 3014.5 | 3051.5 |
| 110° | 428.6 | 567.8 | 1691.7 | 3093.6 | 3250.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 475.3 | 605.6 | 1625.6 | 3077.8 | 3342.0 |
| 115° | 544.0 | 665.1 | 1529.3 | 2960.5 | 3342.0 |
| 117.5° | 611.2 | 724.8 | 1465.8 | 2781.4 | 3213.9 |
| 120° | 652.2 | 763.6 | 1428.2 | 2652.9 | 3094.3 |
| 122.5° | 690.9 | 800.1 | 1405.4 | 2515.1 | 2959.8 |
| 125° | 744.7 | 853.3 | 1378.4 | 2326.0 | 2732.6 |
| 127.5° | 794.3 | 900.9 | 1362.4 | 2171.7 | 2529.2 |
| 130° | 821.6 | 931.6 | 1355.6 | 2076.4 | 2399.4 |
| 132.5° | 850.1 | 959.0 | 1348.8 | 1990.3 | 2287.7 |
| 135° | 892.8 | 998.6 | 1341.4 | 1878.1 | 2126.0 |
| 137.5° | 935.8 | 1035.8 | 1335.1 | 1787.1 | 1989.0 |
| 140° | 965.4 | 1058.7 | 1332.8 | 1728.5 | 1908.1 |
| 142.5° | 993.9 | 1081.6 | 1328.3 | 1675.6 | 1832.9 |
| 145° | 1038.1 | 1116.0 | 1322.9 | 1607.6 | 1730.1 |
| 147.5° | 1078.2 | 1147.3 | 1316.6 | 1546.0 | 1640.1 |
| 150° | 1107.8 | 1169.1 | 1314.3 | 1512.5 | 1587.7 |
| 152.5° | 1135.2 | 1188.6 | 1313.2 | 1481.5 | 1543.3 |
| 155° | 1171.9 | 1217.9 | 1311.5 | 1442.1 | 1489.5 |
| 157.5° | 1210.1 | 1242.1 | 1311.7 | 1414.7 | 1445.9 |
| 160° | 1231.7 | 1258.2 | 1312.9 | 1397.4 | 1419.7 |
| 162.5° | 1248.8 | 1270.8 | 1314.0 | 1383.6 | 1400.3 |
| 165° | 1275.9 | 1288.4 | 1317.2 | 1368.6 | 1375.5 |
| 167.5° | 1294.4 | 1303.0 | 1317.4 | 1355.7 | 1359.0 |
| 170° | 1305.8 | 1309.9 | 1318.6 | 1349.9 | 1349.9 |
| 172.5° | 1314.9 | 1315.7 | 1318.6 | 1343.1 | 1341.9 |
| 175° | 1324.3 | 1322.9 | 1318.6 | 1335.6 | 1332.8 |
| 177.5° | 1327.4 | 1324.1 | 1318.3 | 1329.6 | 1326.3 |
| 180° | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 |

(END OF REPORT)