

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: P519785

Luminaire Tested: **SQ4-150U-0D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519785  
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-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

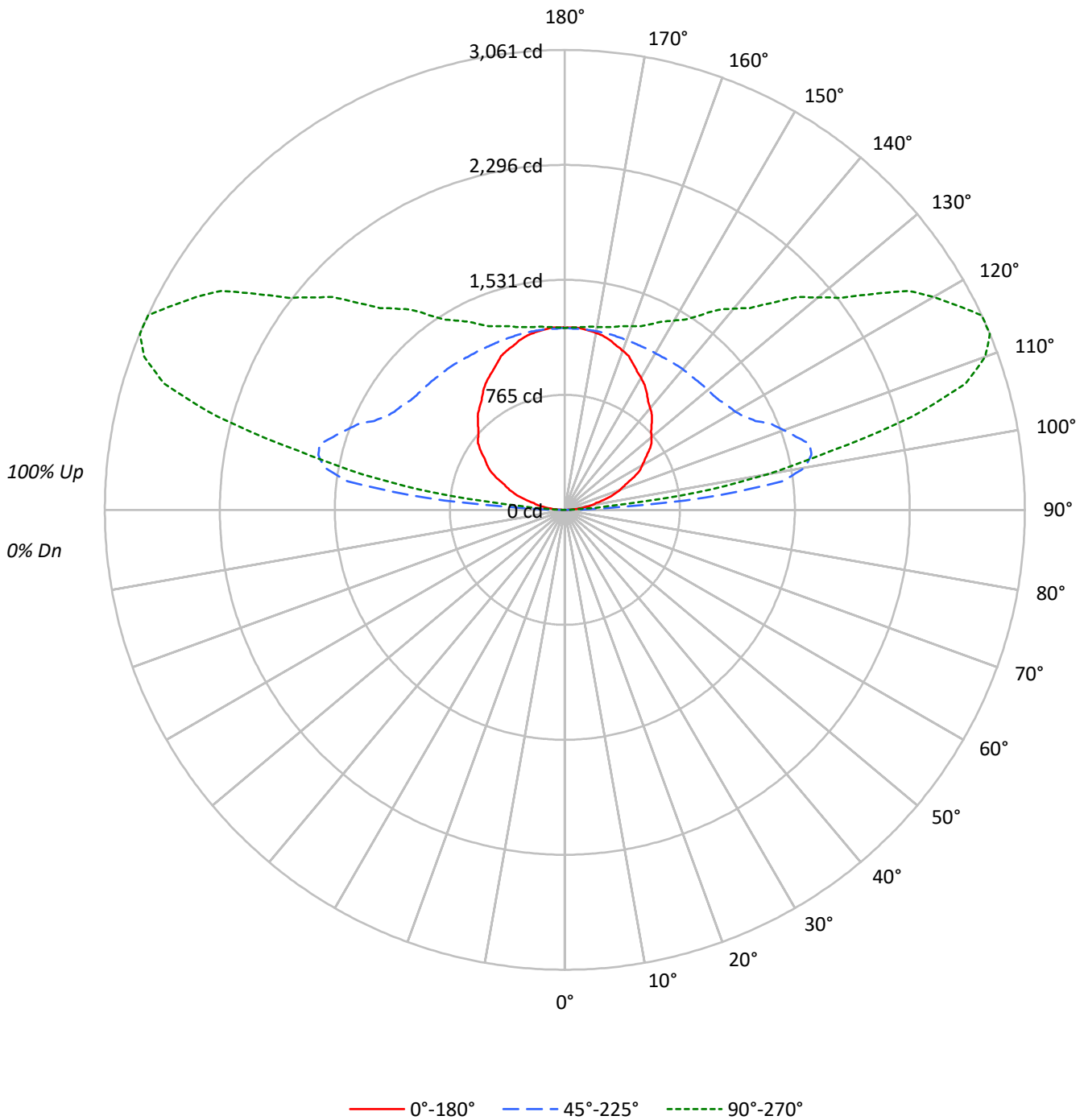
Lumens per Lamp: N/A  
Luminaire Lumens: 7811.4 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Indirect

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





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF  | 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°  | 6168 | 66084 | 20339 |
| 100° | 6376 | 57467 | 48460 |
| 105° | 6725 | 40136 | 56779 |
| 110° | 7060 | 27862 | 53545 |
| 115° | 7251 | 20386 | 44548 |
| 120° | 7348 | 16092 | 34862 |
| 125° | 7315 | 13537 | 26838 |
| 130° | 7201 | 11881 | 21028 |
| 135° | 7113 | 10686 | 16937 |
| 140° | 7100 | 9801  | 14032 |
| 145° | 7139 | 9098  | 11898 |
| 150° | 7206 | 8549  | 10328 |
| 155° | 7284 | 8151  | 9258  |
| 160° | 7384 | 7870  | 8511  |
| 165° | 7441 | 7681  | 8022  |
| 170° | 7469 | 7542  | 7722  |
| 175° | 7489 | 7456  | 7537  |



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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°  | 563.1  | 7.2       |
| 100°-110° | 1522.4 | 19.5      |
| 110°-120° | 1600.6 | 20.5      |
| 120°-130° | 1300.1 | 16.6      |
| 130°-140° | 1019.8 | 13.1      |
| 140°-150° | 782.7  | 10.0      |
| 150°-160° | 562.9  | 7.2       |
| 160°-170° | 343.9  | 4.4       |
| 170°-180° | 115.9  | 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°  | 3686.0 | 47.2      |
| 90°-150°  | 6788.7 | 86.9      |
| 90°-180°  | 7811.0 | 100.0     |
| 0°-180°   | 7811.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 90°  | 3    | 8     | 17   | 18    | 17   |      |
| 95°  | 87   | 307   | 936  | 485   | 288  | 97   |
| 105° | 283  | 437   | 1689 | 2491  | 2389 | 298  |
| 115° | 498  | 609   | 1401 | 2712  | 3061 | 492  |
| 125° | 682  | 782   | 1262 | 2130  | 2503 | 608  |
| 135° | 818  | 915   | 1228 | 1720  | 1947 | 632  |
| 145° | 951  | 1022  | 1212 | 1472  | 1585 | 595  |
| 155° | 1073 | 1115  | 1201 | 1321  | 1364 | 495  |
| 165° | 1168 | 1180  | 1206 | 1253  | 1260 | 329  |
| 175° | 1213 | 1212  | 1208 | 1223  | 1221 | 115  |
| 180° | 1212 | 1212  | 1212 | 1212  | 1212 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 90°    | 2.6    | 7.7    | 17.0   | 18.2   | 17.0   |
| 92.5°  | 37.0   | 135.0  | 266.3  | 115.6  | 83.7   |
| 95°    | 87.4   | 306.7  | 936.4  | 484.6  | 288.2  |
| 97.5°  | 140.3  | 351.8  | 1459.6 | 1207.9 | 887.1  |
| 100°   | 180.0  | 370.0  | 1622.4 | 1692.0 | 1368.1 |
| 102.5° | 216.5  | 395.3  | 1679.8 | 2059.0 | 1816.7 |
| 105°   | 283.0  | 437.3  | 1688.9 | 2491.2 | 2389.2 |
| 107.5° | 344.6  | 485.3  | 1615.1 | 2760.9 | 2794.8 |
| 110°   | 392.6  | 520.1  | 1549.3 | 2833.3 | 2977.4 |
| 112.5° | 435.3  | 554.7  | 1488.8 | 2818.8 | 3060.9 |
| 115°   | 498.2  | 609.1  | 1400.7 | 2711.5 | 3060.9 |
| 117.5° | 559.7  | 663.8  | 1342.5 | 2547.4 | 2943.5 |
| 120°   | 597.3  | 699.3  | 1308.1 | 2429.7 | 2833.9 |
| 122.5° | 632.8  | 732.8  | 1287.2 | 2303.5 | 2710.8 |
| 125°   | 682.1  | 781.5  | 1262.4 | 2130.3 | 2502.7 |
| 127.5° | 727.5  | 825.1  | 1247.8 | 1989.0 | 2316.4 |
| 130°   | 752.5  | 853.2  | 1241.6 | 1901.7 | 2197.5 |
| 132.5° | 778.6  | 878.3  | 1235.3 | 1822.9 | 2095.3 |
| 135°   | 817.7  | 914.6  | 1228.5 | 1720.1 | 1947.1 |
| 137.5° | 857.1  | 948.6  | 1222.8 | 1636.7 | 1821.6 |
| 140°   | 884.2  | 969.7  | 1220.7 | 1583.1 | 1747.6 |
| 142.5° | 910.3  | 990.6  | 1216.5 | 1534.6 | 1678.7 |
| 145°   | 950.7  | 1022.1 | 1211.6 | 1472.3 | 1584.6 |
| 147.5° | 987.5  | 1050.8 | 1205.8 | 1415.9 | 1502.1 |
| 150°   | 1014.6 | 1070.7 | 1203.7 | 1385.3 | 1454.1 |
| 152.5° | 1039.7 | 1088.6 | 1202.7 | 1356.8 | 1413.4 |
| 155°   | 1073.3 | 1115.4 | 1201.1 | 1320.8 | 1364.1 |
| 157.5° | 1108.3 | 1137.6 | 1201.4 | 1295.7 | 1324.2 |
| 160°   | 1128.1 | 1152.3 | 1202.4 | 1279.8 | 1300.2 |
| 162.5° | 1143.7 | 1163.9 | 1203.5 | 1267.2 | 1282.5 |
| 165°   | 1168.5 | 1180.0 | 1206.3 | 1253.4 | 1259.8 |
| 167.5° | 1185.5 | 1193.4 | 1206.6 | 1241.6 | 1244.7 |
| 170°   | 1195.9 | 1199.7 | 1207.6 | 1236.3 | 1236.3 |
| 172.5° | 1204.3 | 1205.0 | 1207.6 | 1230.1 | 1229.0 |
| 175°   | 1212.9 | 1211.6 | 1207.6 | 1223.2 | 1220.7 |
| 177.5° | 1215.7 | 1212.7 | 1207.4 | 1217.8 | 1214.7 |
| 180°   | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 |

(END OF REPORT)