

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: P519707

Luminaire Tested: **SQ4-075U-0D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519707  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-075U-0D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

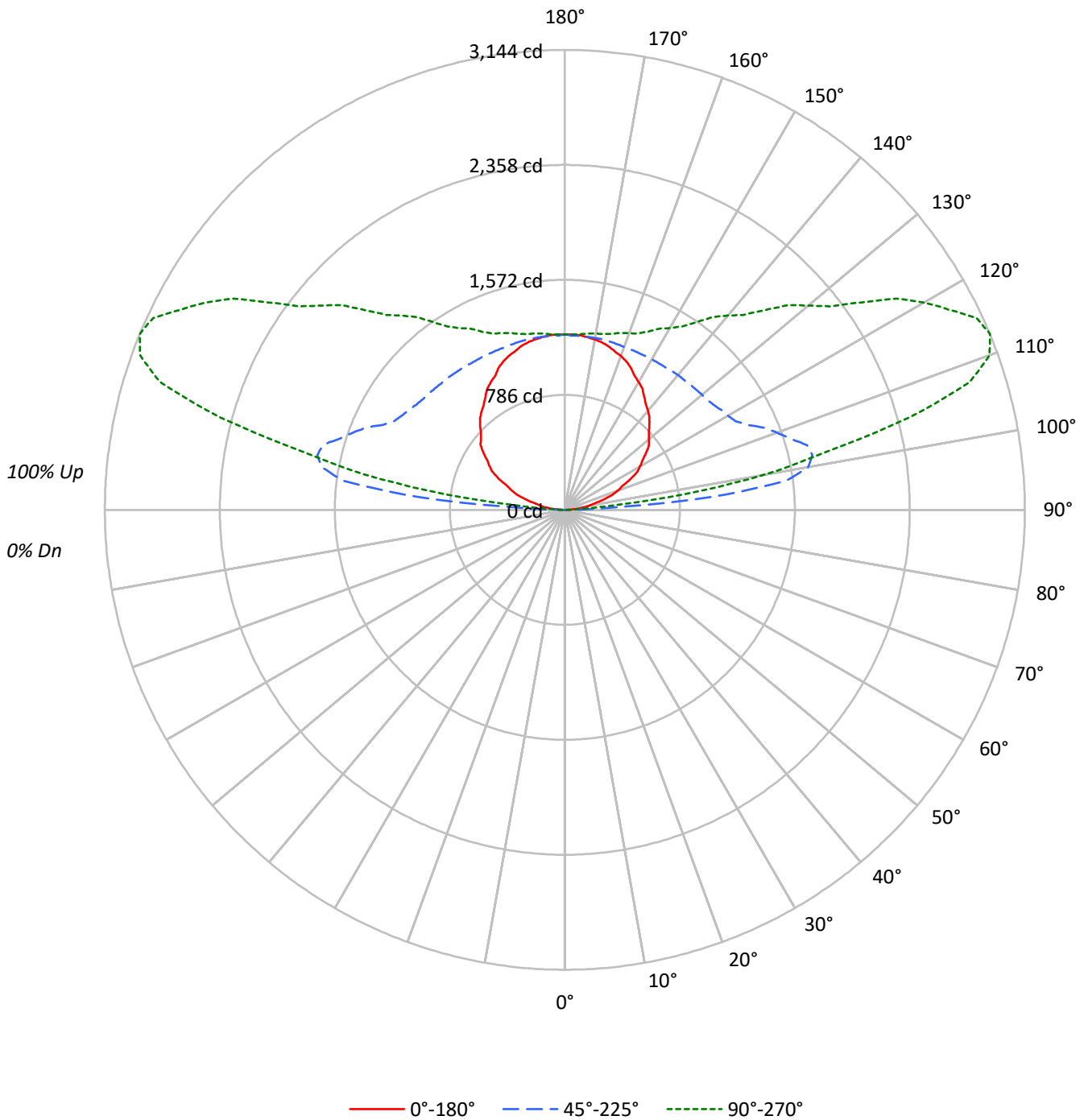
Lumens per Lamp: N/A  
Luminaire Lumens: 7803.8 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Indirect

Input Watts (W): 54  
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



TEST NUMBER: P519707  
CATALOG NUMBER: SQ4-075U-0D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P519707

CATALOG NUMBER: SQ4-075U-0D-935-1D-UNV-STD-W-12

**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°  | 2968 | 35255 | 9623  |
| 100° | 3115 | 29927 | 24646 |
| 105° | 3301 | 20351 | 28922 |
| 110° | 3461 | 13865 | 27776 |
| 115° | 3580 | 9997  | 22590 |
| 120° | 3653 | 7917  | 17433 |
| 125° | 3635 | 6682  | 13242 |
| 130° | 3585 | 5853  | 10389 |
| 135° | 3558 | 5265  | 8391  |
| 140° | 3551 | 4830  | 6958  |
| 145° | 3550 | 4478  | 5875  |
| 150° | 3584 | 4218  | 5096  |
| 155° | 3633 | 4022  | 4558  |
| 160° | 3662 | 3879  | 4204  |
| 165° | 3684 | 3790  | 3968  |
| 170° | 3693 | 3725  | 3820  |
| 175° | 3698 | 3682  | 3722  |



TEST NUMBER: P519707

CATALOG NUMBER: SQ4-075U-0D-935-1D-UNV-STD-W-12

**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°  | 565.0  | 7.2       |
| 100°-110° | 1554.4 | 19.9      |
| 110°-120° | 1604.4 | 20.6      |
| 120°-130° | 1285.5 | 16.5      |
| 130°-140° | 1009.6 | 12.9      |
| 140°-150° | 773.7  | 9.9       |
| 150°-160° | 556.3  | 7.1       |
| 160°-170° | 340.2  | 4.4       |
| 170°-180° | 114.7  | 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°  | 3723.8 | 47.7      |
| 90°-150°  | 6792.7 | 87.0      |
| 90°-180°  | 7804.0 | 100.0     |
| 0°-180°   | 7803.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 90°  | 2    | 10    | 18   | 23    | 23   |      |
| 95°  | 84   | 308   | 999  | 427   | 273  | 94   |
| 105° | 278  | 427   | 1713 | 2608  | 2434 | 293  |
| 115° | 492  | 599   | 1374 | 2736  | 3104 | 485  |
| 125° | 678  | 773   | 1246 | 2108  | 2470 | 605  |
| 135° | 818  | 908   | 1211 | 1705  | 1929 | 631  |
| 145° | 946  | 1010  | 1193 | 1453  | 1565 | 593  |
| 155° | 1070 | 1105  | 1185 | 1306  | 1343 | 492  |
| 165° | 1157 | 1172  | 1190 | 1239  | 1246 | 326  |
| 175° | 1198 | 1200  | 1193 | 1208  | 1206 | 114  |
| 180° | 1198 | 1198  | 1198 | 1198  | 1198 |      |



TEST NUMBER: P519707

CATALOG NUMBER: SQ4-075U-0D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 90°    | 2.5    | 10.0   | 17.8   | 22.9   | 22.9   |
| 92.5°  | 35.2   | 150.3  | 260.5  | 100.0  | 82.1   |
| 95°    | 84.1   | 308.4  | 999.1  | 427.2  | 272.7  |
| 97.5°  | 137.1  | 342.0  | 1524.6 | 1174.7 | 828.8  |
| 100°   | 175.9  | 362.8  | 1689.8 | 1705.6 | 1391.6 |
| 102.5° | 212.6  | 387.5  | 1732.6 | 2116.0 | 1827.9 |
| 105°   | 277.8  | 427.3  | 1712.7 | 2608.5 | 2434.0 |
| 107.5° | 340.0  | 476.6  | 1615.4 | 2849.6 | 2901.5 |
| 110°   | 384.9  | 509.5  | 1542.0 | 2909.6 | 3089.0 |
| 112.5° | 425.6  | 546.3  | 1468.6 | 2871.0 | 3144.1 |
| 115°   | 491.9  | 599.1  | 1373.8 | 2735.5 | 3104.3 |
| 117.5° | 555.1  | 653.8  | 1313.6 | 2545.5 | 2962.6 |
| 120°   | 593.9  | 688.6  | 1287.1 | 2403.0 | 2834.2 |
| 122.5° | 628.5  | 723.2  | 1268.8 | 2278.2 | 2687.4 |
| 125°   | 678.0  | 772.7  | 1246.3 | 2108.4 | 2469.7 |
| 127.5° | 724.9  | 815.1  | 1231.5 | 1966.7 | 2283.7 |
| 130°   | 749.3  | 841.5  | 1223.4 | 1882.4 | 2171.5 |
| 132.5° | 777.9  | 870.1  | 1217.3 | 1808.4 | 2069.6 |
| 135°   | 818.1  | 907.9  | 1210.6 | 1705.1 | 1929.4 |
| 137.5° | 855.9  | 939.1  | 1205.0 | 1621.6 | 1806.5 |
| 140°   | 884.4  | 961.7  | 1203.0 | 1566.2 | 1733.1 |
| 142.5° | 908.9  | 980.1  | 1198.9 | 1516.7 | 1659.7 |
| 145°   | 945.6  | 1010.4 | 1192.8 | 1452.8 | 1564.9 |
| 147.5° | 984.8  | 1040.6 | 1189.7 | 1396.2 | 1485.9 |
| 150°   | 1009.3 | 1059.1 | 1187.7 | 1365.2 | 1434.9 |
| 152.5° | 1031.7 | 1077.6 | 1185.7 | 1338.4 | 1396.2 |
| 155°   | 1070.5 | 1105.4 | 1185.2 | 1305.8 | 1343.2 |
| 157.5° | 1098.5 | 1126.9 | 1185.2 | 1279.0 | 1304.9 |
| 160°   | 1118.9 | 1141.3 | 1185.2 | 1264.6 | 1284.6 |
| 162.5° | 1135.2 | 1153.6 | 1187.2 | 1252.3 | 1268.2 |
| 165°   | 1157.1 | 1172.1 | 1190.3 | 1238.8 | 1246.3 |
| 167.5° | 1172.4 | 1183.9 | 1192.8 | 1227.5 | 1229.5 |
| 170°   | 1182.6 | 1190.1 | 1192.8 | 1223.4 | 1223.4 |
| 172.5° | 1190.8 | 1194.3 | 1192.8 | 1217.2 | 1215.2 |
| 175°   | 1197.9 | 1200.4 | 1192.8 | 1208.0 | 1205.5 |
| 177.5° | 1199.9 | 1199.9 | 1191.8 | 1203.9 | 1199.9 |
| 180°   | 1197.9 | 1197.9 | 1197.9 | 1197.9 | 1197.9 |

(END OF REPORT)