

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: P519637

Luminaire Tested: **SQ4-WB-150U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519637  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-150U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

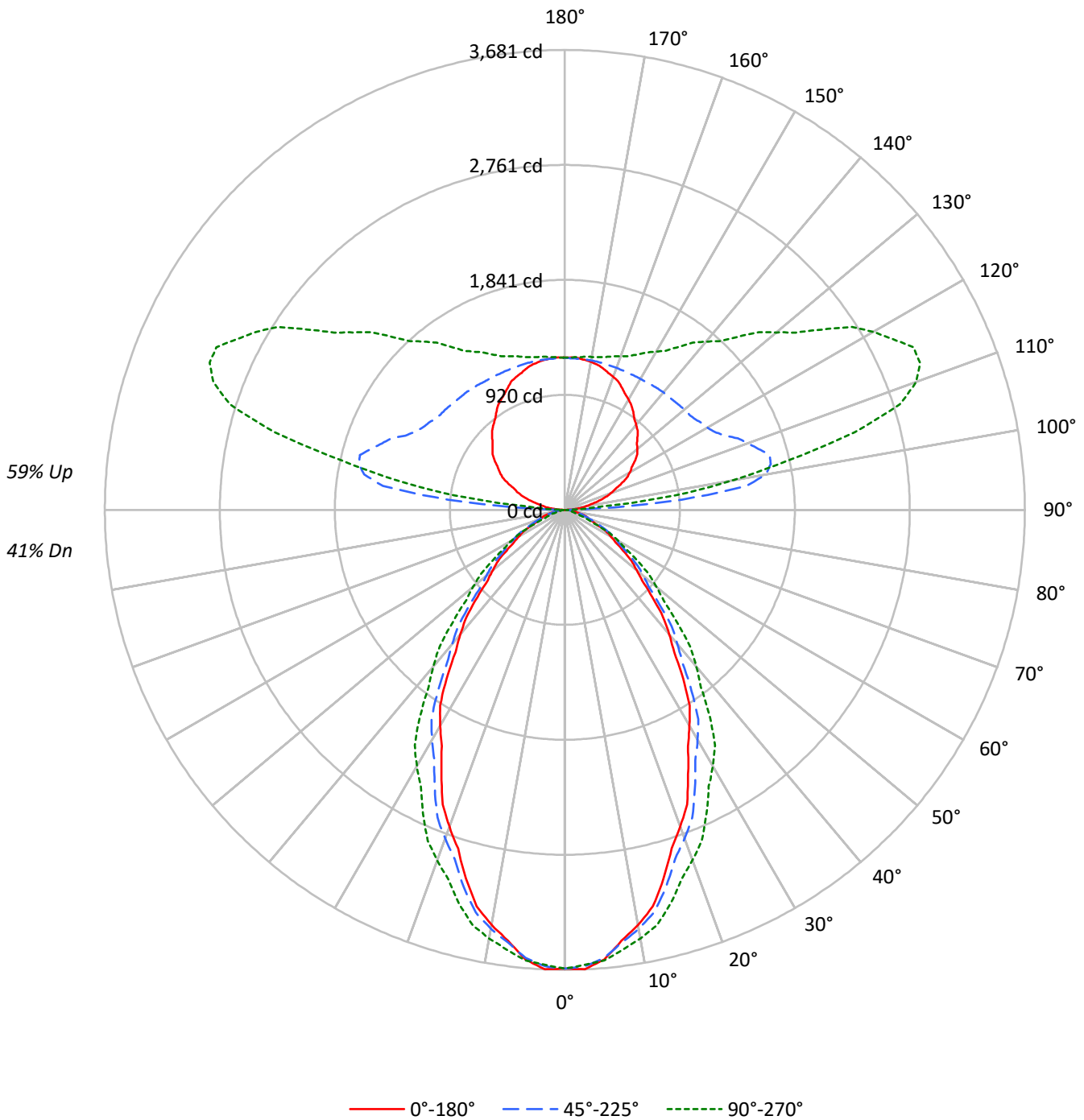
Lumens per Lamp: N/A  
Luminaire Lumens: 13204.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 127.1  
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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 41 |
| 1   | 97  | 93  | 89  | 86  | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 56 | 55 | 53 | 43 | 43 | 42 | 36 |
| 2   | 89  | 82  | 76  | 72  | 81 | 75 | 70 | 66 | 62 | 59 | 56 | 50 | 48 | 46 | 39 | 38 | 37 | 32 |
| 3   | 82  | 73  | 66  | 61  | 74 | 67 | 61 | 57 | 56 | 52 | 48 | 45 | 43 | 40 | 36 | 34 | 32 | 28 |
| 4   | 75  | 65  | 58  | 52  | 68 | 60 | 54 | 49 | 50 | 46 | 42 | 41 | 38 | 35 | 33 | 31 | 29 | 25 |
| 5   | 69  | 59  | 51  | 46  | 63 | 54 | 48 | 43 | 45 | 41 | 37 | 37 | 34 | 31 | 30 | 28 | 26 | 22 |
| 6   | 64  | 53  | 45  | 40  | 59 | 49 | 42 | 38 | 41 | 36 | 33 | 34 | 31 | 28 | 28 | 25 | 23 | 20 |
| 7   | 59  | 48  | 41  | 35  | 54 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 28 | 25 | 25 | 23 | 21 | 18 |
| 8   | 55  | 44  | 37  | 32  | 51 | 41 | 34 | 30 | 35 | 30 | 26 | 29 | 25 | 23 | 24 | 21 | 19 | 17 |
| 9   | 52  | 40  | 33  | 28  | 47 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 22 | 19 | 18 | 15 |
| 10  | 48  | 37  | 30  | 26  | 44 | 34 | 28 | 24 | 30 | 25 | 22 | 25 | 21 | 19 | 21 | 18 | 16 | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 22583 | 22583 | 22583 |
| 5°  | 22302 | 22222 | 22351 |
| 10° | 21070 | 21261 | 21754 |
| 15° | 19450 | 19902 | 20795 |
| 20° | 17663 | 18328 | 19540 |
| 25° | 15843 | 16707 | 18205 |
| 30° | 14166 | 15092 | 16820 |
| 35° | 12387 | 13282 | 15182 |
| 40° | 10426 | 11254 | 13142 |
| 45° | 8605  | 9347  | 10972 |
| 50° | 7183  | 7831  | 9141  |
| 55° | 6099  | 6720  | 7549  |
| 60° | 5212  | 5826  | 6025  |
| 65° | 4151  | 4900  | 3892  |
| 70° | 3679  | 3825  | 2376  |
| 75° | 3408  | 3101  | 1454  |
| 80° | 3138  | 2855  | 1254  |
| 85° | 2844  | 2618  | 1023  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 336.8   | 2.6       |
| 10°-20°   | 876.0   | 6.6       |
| 20°-30°   | 1134.6  | 8.6       |
| 30°-40°   | 1111.1  | 8.4       |
| 40°-50°   | 850.5   | 6.4       |
| 50°-60°   | 566.7   | 4.3       |
| 60°-70°   | 309.2   | 2.3       |
| 70°-80°   | 128.9   | 1.0       |
| 80°-90°   | 39.0    | 0.3       |
| 90°-100°  | 565.9   | 4.3       |
| 100°-110° | 1530.2  | 11.6      |
| 110°-120° | 1608.7  | 12.2      |
| 120°-130° | 1306.7  | 9.9       |
| 130°-140° | 1025.0  | 7.8       |
| 140°-150° | 786.7   | 6.0       |
| 150°-160° | 565.8   | 4.3       |
| 160°-170° | 345.6   | 2.6       |
| 170°-180° | 116.5   | 0.9       |
| 0°-30°    | 2347.3  | 17.8      |
| 0°-40°    | 3458.4  | 26.2      |
| 0°-60°    | 4875.6  | 36.9      |
| 0°-90°    | 5352.7  | 40.5      |
| 90°-120°  | 3704.8  | 28.1      |
| 90°-150°  | 6823.3  | 51.7      |
| 90°-180°  | 7851.0  | 59.5      |
| 0°-180°   | 13204.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3672 | 3672  | 3672 | 3672  | 3672 |      |
| 5°   | 3612 | 3576  | 3599 | 3607  | 3620 | 336  |
| 15°  | 3054 | 3044  | 3125 | 3210  | 3266 | 853  |
| 25°  | 2334 | 2341  | 2462 | 2569  | 2682 | 1074 |
| 35°  | 1650 | 1658  | 1769 | 1888  | 2022 | 1026 |
| 45°  | 989  | 1008  | 1075 | 1156  | 1261 | 771  |
| 55°  | 569  | 592   | 627  | 650   | 704  | 516  |
| 65°  | 285  | 309   | 337  | 294   | 267  | 296  |
| 75°  | 143  | 143   | 130  | 90    | 61   | 153  |
| 85°  | 40   | 40    | 37   | 24    | 14   | 44   |
| 90°  | 3    | 8     | 17   | 18    | 17   | 8    |
| 95°  | 88   | 308   | 941  | 487   | 290  | 92   |
| 105° | 284  | 440   | 1698 | 2504  | 2401 | 300  |
| 115° | 501  | 612   | 1408 | 2725  | 3076 | 494  |
| 125° | 686  | 786   | 1269 | 2141  | 2515 | 611  |
| 135° | 822  | 919   | 1235 | 1729  | 1957 | 635  |
| 145° | 956  | 1027  | 1218 | 1480  | 1593 | 598  |
| 155° | 1079 | 1121  | 1207 | 1328  | 1371 | 498  |
| 165° | 1174 | 1186  | 1212 | 1260  | 1266 | 331  |
| 175° | 1219 | 1218  | 1214 | 1230  | 1227 | 116  |
| 180° | 1218 | 1218  | 1218 | 1218  | 1218 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3671.6 | 3671.6 | 3671.6 | 3671.6 | 3671.6 |
| 2.5°   | 3680.6 | 3647.8 | 3656.1 | 3655.9 | 3645.8 |
| 5°     | 3612.0 | 3575.7 | 3599.1 | 3607.4 | 3620.0 |
| 7.5°   | 3477.9 | 3450.5 | 3493.1 | 3524.6 | 3550.1 |
| 10°    | 3373.5 | 3349.9 | 3404.1 | 3450.0 | 3483.1 |
| 12.5°  | 3252.4 | 3232.5 | 3299.7 | 3361.3 | 3404.5 |
| 15°    | 3054.5 | 3043.5 | 3125.4 | 3210.5 | 3265.6 |
| 17.5°  | 2842.8 | 2837.5 | 2931.5 | 3030.7 | 3101.3 |
| 20°    | 2698.5 | 2696.9 | 2800.0 | 2903.4 | 2985.3 |
| 22.5°  | 2552.9 | 2556.3 | 2664.7 | 2772.1 | 2865.4 |
| 25°    | 2334.4 | 2340.7 | 2461.7 | 2569.0 | 2682.4 |
| 27.5°  | 2132.4 | 2135.2 | 2260.3 | 2373.6 | 2494.5 |
| 30°    | 1994.5 | 2002.3 | 2125.0 | 2242.2 | 2368.2 |
| 32.5°  | 1856.6 | 1865.7 | 1985.8 | 2106.9 | 2235.5 |
| 35°    | 1649.7 | 1657.6 | 1768.9 | 1888.0 | 2021.9 |
| 37.5°  | 1436.4 | 1447.1 | 1546.0 | 1658.5 | 1790.2 |
| 40°    | 1298.5 | 1314.3 | 1401.6 | 1507.6 | 1636.8 |
| 42.5°  | 1165.8 | 1185.3 | 1266.3 | 1366.9 | 1483.4 |
| 45°    | 989.2  | 1008.1 | 1074.6 | 1155.9 | 1261.4 |
| 47.5°  | 837.1  | 858.8  | 909.9  | 980.0  | 1070.1 |
| 50°    | 750.7  | 771.2  | 818.4  | 870.3  | 955.3  |
| 52.5°  | 674.7  | 695.2  | 737.2  | 777.2  | 849.7  |
| 55°    | 568.7  | 592.3  | 626.7  | 650.5  | 704.0  |
| 57.5°  | 481.7  | 504.4  | 531.6  | 542.4  | 574.8  |
| 60°    | 423.7  | 448.9  | 473.6  | 472.4  | 489.8  |
| 62.5°  | 370.9  | 392.3  | 416.9  | 399.9  | 400.8  |
| 65°    | 285.2  | 308.8  | 336.7  | 294.2  | 267.4  |
| 67.5°  | 230.4  | 235.4  | 264.2  | 205.2  | 173.3  |
| 70°    | 204.6  | 204.6  | 212.7  | 158.9  | 132.1  |
| 72.5°  | 180.1  | 180.1  | 172.7  | 129.2  | 101.2  |
| 75°    | 143.4  | 143.4  | 130.5  | 89.6   | 61.2   |
| 77.5°  | 110.5  | 109.3  | 99.9   | 66.8   | 44.5   |
| 80°    | 88.6   | 88.6   | 80.6   | 52.8   | 35.4   |
| 82.5°  | 69.3   | 69.3   | 62.5   | 41.2   | 26.4   |
| 85°    | 40.3   | 40.3   | 37.1   | 24.0   | 14.5   |
| 87.5°  | 14.7   | 15.7   | 16.3   | 11.4   | 9.9    |
| 90°    | 2.6    | 7.7    | 17.0   | 18.3   | 17.0   |
| 92.5°  | 37.2   | 135.7  | 267.7  | 116.2  | 84.2   |
| 95°    | 87.8   | 308.3  | 941.2  | 487.1  | 289.7  |
| 97.5°  | 141.0  | 353.5  | 1467.1 | 1214.1 | 891.6  |
| 100°   | 180.9  | 371.9  | 1630.7 | 1700.6 | 1375.0 |
| 102.5° | 217.6  | 397.3  | 1688.3 | 2069.5 | 1826.0 |
| 105°   | 284.4  | 439.5  | 1697.5 | 2503.9 | 2401.4 |
| 107.5° | 346.3  | 487.8  | 1623.3 | 2775.0 | 2809.1 |
| 110°   | 394.6  | 522.7  | 1557.2 | 2847.8 | 2992.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 437.5  | 557.5  | 1496.4 | 2833.2 | 3076.5 |
| 115°   | 500.7  | 612.2  | 1407.8 | 2725.3 | 3076.5 |
| 117.5° | 562.6  | 667.2  | 1349.4 | 2560.4 | 2958.5 |
| 120°   | 600.4  | 702.9  | 1314.7 | 2442.1 | 2848.4 |
| 122.5° | 636.0  | 736.5  | 1293.8 | 2315.3 | 2724.7 |
| 125°   | 685.6  | 785.5  | 1268.9 | 2141.2 | 2515.4 |
| 127.5° | 731.2  | 829.3  | 1254.2 | 1999.1 | 2328.3 |
| 130°   | 756.3  | 857.6  | 1247.9 | 1911.4 | 2208.7 |
| 132.5° | 782.6  | 882.8  | 1241.6 | 1832.2 | 2106.0 |
| 135°   | 821.9  | 919.3  | 1234.8 | 1728.9 | 1957.0 |
| 137.5° | 861.5  | 953.5  | 1229.0 | 1645.1 | 1830.9 |
| 140°   | 888.7  | 974.6  | 1226.9 | 1591.2 | 1756.5 |
| 142.5° | 914.9  | 995.7  | 1222.7 | 1542.4 | 1687.3 |
| 145°   | 955.6  | 1027.4 | 1217.7 | 1479.8 | 1592.6 |
| 147.5° | 992.5  | 1056.1 | 1212.0 | 1423.2 | 1509.8 |
| 150°   | 1019.8 | 1076.2 | 1209.9 | 1392.3 | 1461.6 |
| 152.5° | 1045.0 | 1094.2 | 1208.8 | 1363.8 | 1420.7 |
| 155°   | 1078.8 | 1121.1 | 1207.3 | 1327.5 | 1371.1 |
| 157.5° | 1113.9 | 1143.4 | 1207.5 | 1302.3 | 1331.0 |
| 160°   | 1133.9 | 1158.2 | 1208.6 | 1286.4 | 1306.9 |
| 162.5° | 1149.6 | 1169.8 | 1209.6 | 1273.7 | 1289.1 |
| 165°   | 1174.5 | 1186.0 | 1212.5 | 1259.8 | 1266.2 |
| 167.5° | 1191.5 | 1199.5 | 1212.8 | 1248.0 | 1251.0 |
| 170°   | 1202.0 | 1205.9 | 1213.8 | 1242.7 | 1242.7 |
| 172.5° | 1210.4 | 1211.2 | 1213.8 | 1236.3 | 1235.3 |
| 175°   | 1219.1 | 1217.8 | 1213.8 | 1229.5 | 1226.9 |
| 177.5° | 1221.9 | 1218.9 | 1213.6 | 1224.0 | 1220.9 |
| 180°   | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |

(END OF REPORT)