

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: P518867

Luminaire Tested: **SQ4-BB-125U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518867  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

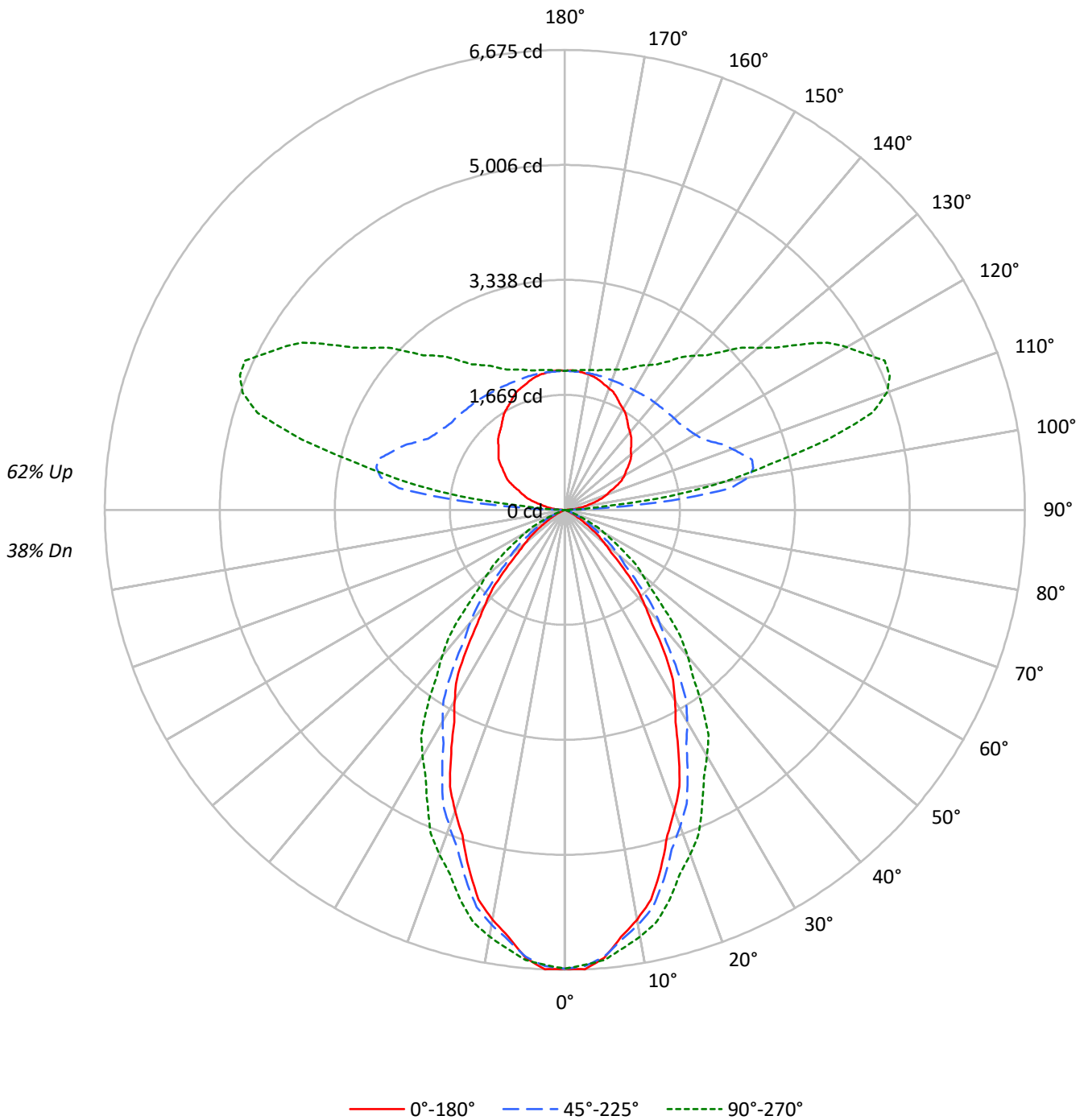
Lumens per Lamp: N/A  
Luminaire Lumens: 20980.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 233.8  
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



TEST NUMBER: P518867  
CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P518867

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12

**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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |
| 1   | 96  | 93  | 89  | 86  | 88 | 84 | 82 | 79 | 69 | 67 | 66 | 55 | 54 | 53 | 42 | 41 | 41 | 35 |
| 2   | 89  | 83  | 77  | 73  | 81 | 75 | 71 | 67 | 62 | 59 | 56 | 50 | 48 | 46 | 39 | 37 | 36 | 31 |
| 3   | 82  | 74  | 67  | 62  | 75 | 68 | 62 | 58 | 56 | 52 | 49 | 45 | 43 | 41 | 35 | 34 | 33 | 28 |
| 4   | 76  | 66  | 59  | 54  | 69 | 61 | 55 | 50 | 51 | 47 | 43 | 41 | 38 | 36 | 33 | 31 | 29 | 26 |
| 5   | 70  | 60  | 53  | 47  | 64 | 55 | 49 | 44 | 46 | 42 | 38 | 38 | 35 | 32 | 30 | 28 | 27 | 23 |
| 6   | 65  | 54  | 47  | 42  | 59 | 50 | 44 | 39 | 42 | 37 | 34 | 35 | 32 | 29 | 28 | 26 | 24 | 21 |
| 7   | 60  | 49  | 42  | 37  | 55 | 46 | 39 | 35 | 39 | 34 | 31 | 32 | 29 | 26 | 26 | 24 | 22 | 19 |
| 8   | 56  | 45  | 38  | 33  | 51 | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 26 | 24 | 24 | 22 | 20 | 18 |
| 9   | 53  | 41  | 35  | 30  | 48 | 39 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 23 | 20 | 19 | 17 |
| 10  | 49  | 38  | 32  | 27  | 45 | 36 | 30 | 26 | 31 | 26 | 23 | 26 | 22 | 20 | 21 | 19 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20481 | 20481 | 20481 |
| 5°  | 20151 | 20101 | 20250 |
| 10° | 18855 | 19106 | 19640 |
| 15° | 17141 | 17685 | 18669 |
| 20° | 15215 | 16006 | 17409 |
| 25° | 13250 | 14300 | 15994 |
| 30° | 11350 | 12597 | 14656 |
| 35° | 9411  | 10693 | 13039 |
| 40° | 7230  | 8550  | 11111 |
| 45° | 5227  | 6474  | 8940  |
| 50° | 3561  | 4825  | 7091  |
| 55° | 2315  | 3489  | 5511  |
| 60° | 1328  | 2457  | 3983  |
| 65° | 351   | 1501  | 2016  |
| 70° | 174   | 463   | 579   |
| 75° | 76    | 38    | 0     |
| 80° | 57    | 0     | 0     |
| 85° | 0     | 0     | 0     |



TEST NUMBER: P518867

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 607.8   | 2.9       |
| 10°-20°   | 1554.2  | 7.4       |
| 20°-30°   | 1945.7  | 9.3       |
| 30°-40°   | 1797.2  | 8.6       |
| 40°-50°   | 1207.6  | 5.8       |
| 50°-60°   | 623.8   | 3.0       |
| 60°-70°   | 195.4   | 0.9       |
| 70°-80°   | 12.3    | 0.1       |
| 80°-90°   | 5.0     | 0.0       |
| 90°-100°  | 944.3   | 4.5       |
| 100°-110° | 2543.8  | 12.1      |
| 110°-120° | 2669.6  | 12.7      |
| 120°-130° | 2166.3  | 10.3      |
| 130°-140° | 1699.0  | 8.1       |
| 140°-150° | 1304.4  | 6.2       |
| 150°-160° | 937.9   | 4.5       |
| 160°-170° | 573.0   | 2.7       |
| 170°-180° | 193.2   | 0.9       |
| 0°-30°    | 4107.7  | 19.6      |
| 0°-40°    | 5904.9  | 28.1      |
| 0°-60°    | 7736.2  | 36.9      |
| 0°-90°    | 7948.9  | 37.9      |
| 90°-120°  | 6157.8  | 29.3      |
| 90°-150°  | 11327.5 | 54.0      |
| 90°-180°  | 13032.0 | 62.1      |
| 0°-180°   | 20980.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 6660 | 6660  | 6660 | 6660  | 6660 |      |
| 5°   | 6527 | 6461  | 6511 | 6534  | 6560 | 605  |
| 15°  | 5384 | 5365  | 5554 | 5741  | 5864 | 1499 |
| 25°  | 3905 | 3936  | 4214 | 4502  | 4714 | 1790 |
| 35°  | 2507 | 2570  | 2848 | 3183  | 3473 | 1553 |
| 45°  | 1202 | 1274  | 1488 | 1778  | 2056 | 944  |
| 55°  | 432  | 504   | 651  | 836   | 1028 | 403  |
| 65°  | 48   | 92    | 206  | 249   | 277  | 82   |
| 75°  | 6    | 6     | 3    | 0     | 0    | 9    |
| 85°  | 0    | 0     | 0    | 0     | 0    | 1    |
| 90°  | 5    | 15    | 31   | 33    | 33   | 10   |
| 95°  | 144  | 514   | 1548 | 792   | 548  | 150  |
| 105° | 471  | 732   | 2813 | 4209  | 3950 | 495  |
| 115° | 831  | 1017  | 2343 | 4526  | 5120 | 817  |
| 125° | 1134 | 1302  | 2104 | 3555  | 4184 | 1013 |
| 135° | 1366 | 1524  | 2044 | 2868  | 3248 | 1054 |
| 145° | 1579 | 1702  | 2019 | 2452  | 2633 | 990  |
| 155° | 1792 | 1858  | 2001 | 2200  | 2271 | 825  |
| 165° | 1944 | 1967  | 2008 | 2088  | 2098 | 548  |
| 175° | 2021 | 2019  | 2011 | 2039  | 2034 | 192  |
| 180° | 2019 | 2019  | 2019 | 2019  | 2019 |      |



TEST NUMBER: P518867

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 6659.5 | 6659.5 | 6659.5 | 6659.5 | 6659.5 |
| 2.5°   | 6674.9 | 6611.9 | 6628.5 | 6628.1 | 6610.5 |
| 5°     | 6527.4 | 6461.2 | 6511.3 | 6534.4 | 6559.6 |
| 7.5°   | 6251.6 | 6199.9 | 6296.0 | 6368.1 | 6420.4 |
| 10°    | 6037.7 | 5993.6 | 6118.2 | 6216.5 | 6289.0 |
| 12.5°  | 5790.2 | 5756.2 | 5906.8 | 6041.7 | 6134.3 |
| 15°    | 5383.6 | 5364.7 | 5554.4 | 5740.8 | 5863.7 |
| 17.5°  | 4948.0 | 4947.4 | 5163.9 | 5395.4 | 5543.4 |
| 20°    | 4649.1 | 4658.5 | 4890.7 | 5145.9 | 5319.2 |
| 22.5°  | 4350.1 | 4372.1 | 4620.1 | 4886.2 | 5084.6 |
| 25°    | 3904.8 | 3936.3 | 4214.1 | 4502.4 | 4713.5 |
| 27.5°  | 3477.0 | 3523.0 | 3815.3 | 4114.9 | 4372.0 |
| 30°    | 3196.0 | 3249.6 | 3547.2 | 3862.5 | 4127.1 |
| 32.5°  | 2920.2 | 2983.9 | 3274.0 | 3607.5 | 3877.1 |
| 35°    | 2506.6 | 2569.6 | 2848.1 | 3183.3 | 3473.1 |
| 37.5°  | 2079.4 | 2141.1 | 2413.1 | 2743.1 | 3056.2 |
| 40°    | 1801.0 | 1870.3 | 2129.6 | 2449.4 | 2767.5 |
| 42.5°  | 1548.4 | 1617.7 | 1861.6 | 2175.7 | 2476.3 |
| 45°    | 1201.7 | 1274.2 | 1488.5 | 1778.3 | 2055.5 |
| 47.5°  | 914.3  | 993.1  | 1181.1 | 1443.3 | 1696.0 |
| 50°    | 744.2  | 823.0  | 1008.4 | 1239.5 | 1482.0 |
| 52.5°  | 607.6  | 683.9  | 851.2  | 1068.9 | 1291.3 |
| 55°    | 431.7  | 504.2  | 650.8  | 835.6  | 1027.8 |
| 57.5°  | 298.3  | 360.7  | 492.3  | 646.5  | 797.1  |
| 60°    | 215.9  | 275.7  | 399.5  | 524.7  | 647.6  |
| 62.5°  | 143.7  | 198.5  | 319.6  | 415.6  | 498.1  |
| 65°    | 48.3   | 92.4   | 206.2  | 248.7  | 277.1  |
| 67.5°  | 24.5   | 29.5   | 108.3  | 114.3  | 123.7  |
| 70°    | 19.3   | 19.3   | 51.5   | 55.0   | 64.4   |
| 72.5°  | 14.2   | 14.2   | 20.6   | 26.5   | 28.4   |
| 75°    | 6.4    | 6.4    | 3.2    | 0.0    | 0.0    |
| 77.5°  | 3.2    | 3.2    | 2.6    | 0.0    | 0.0    |
| 80°    | 3.2    | 3.2    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 1.0    | 3.0    | 6.2    | 6.7    | 6.7    |
| 90°    | 5.1    | 15.2   | 30.9   | 33.4   | 33.4   |
| 92.5°  | 62.7   | 221.7  | 438.2  | 210.9  | 146.6  |
| 95°    | 144.0  | 513.6  | 1548.1 | 791.6  | 547.7  |
| 97.5°  | 229.9  | 587.9  | 2428.0 | 2028.4 | 1529.6 |
| 100°   | 295.7  | 617.6  | 2707.8 | 2833.2 | 2350.4 |
| 102.5° | 359.5  | 659.2  | 2800.4 | 3435.8 | 3039.6 |
| 105°   | 470.6  | 732.1  | 2813.3 | 4208.9 | 3949.9 |
| 107.5° | 575.5  | 808.8  | 2693.4 | 4606.1 | 4673.0 |
| 110°   | 645.5  | 866.7  | 2584.4 | 4729.5 | 4973.4 |



TEST NUMBER: P518867

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 719.5  | 924.7  | 2479.5 | 4702.2 | 5103.0 |
| 115°   | 830.6  | 1016.7 | 2342.7 | 4526.5 | 5119.9 |
| 117.5° | 931.9  | 1106.4 | 2236.7 | 4246.2 | 4907.0 |
| 120°   | 997.8  | 1166.2 | 2183.2 | 4045.0 | 4723.9 |
| 122.5° | 1055.4 | 1221.8 | 2144.2 | 3839.3 | 4516.1 |
| 125°   | 1134.0 | 1302.5 | 2103.5 | 3555.3 | 4183.9 |
| 127.5° | 1209.7 | 1375.6 | 2077.8 | 3304.8 | 3866.1 |
| 130°   | 1254.9 | 1420.9 | 2067.5 | 3161.3 | 3654.2 |
| 132.5° | 1300.2 | 1464.1 | 2057.2 | 3034.9 | 3487.5 |
| 135°   | 1365.5 | 1523.9 | 2044.4 | 2868.2 | 3247.9 |
| 137.5° | 1427.7 | 1579.6 | 2037.7 | 2726.7 | 3038.5 |
| 140°   | 1470.9 | 1616.8 | 2031.5 | 2639.7 | 2921.3 |
| 142.5° | 1516.2 | 1652.0 | 2027.4 | 2558.4 | 2795.8 |
| 145°   | 1578.9 | 1702.1 | 2018.7 | 2452.2 | 2633.3 |
| 147.5° | 1646.8 | 1753.9 | 2009.9 | 2362.9 | 2505.2 |
| 150°   | 1692.1 | 1785.1 | 2005.8 | 2306.8 | 2425.0 |
| 152.5° | 1733.2 | 1814.2 | 2003.7 | 2261.0 | 2357.1 |
| 155°   | 1792.4 | 1857.7 | 2000.7 | 2200.3 | 2270.7 |
| 157.5° | 1844.3 | 1895.1 | 2001.2 | 2157.6 | 2204.8 |
| 160°   | 1877.2 | 1920.0 | 2003.2 | 2132.6 | 2167.8 |
| 162.5° | 1906.0 | 1940.7 | 2005.3 | 2111.8 | 2137.0 |
| 165°   | 1944.1 | 1966.7 | 2008.4 | 2088.3 | 2098.4 |
| 167.5° | 1974.9 | 1988.0 | 2010.9 | 2070.2 | 2074.2 |
| 170°   | 1995.5 | 2000.5 | 2010.9 | 2059.8 | 2059.8 |
| 172.5° | 2007.9 | 2008.9 | 2013.0 | 2049.5 | 2049.5 |
| 175°   | 2021.2 | 2018.7 | 2010.9 | 2039.1 | 2034.1 |
| 177.5° | 2026.9 | 2022.9 | 2012.5 | 2028.9 | 2024.8 |
| 180°   | 2018.7 | 2018.7 | 2018.7 | 2018.7 | 2018.7 |

(END OF REPORT)