

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: P519498

Luminaire Tested: **SQ4-WB-125U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519498  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

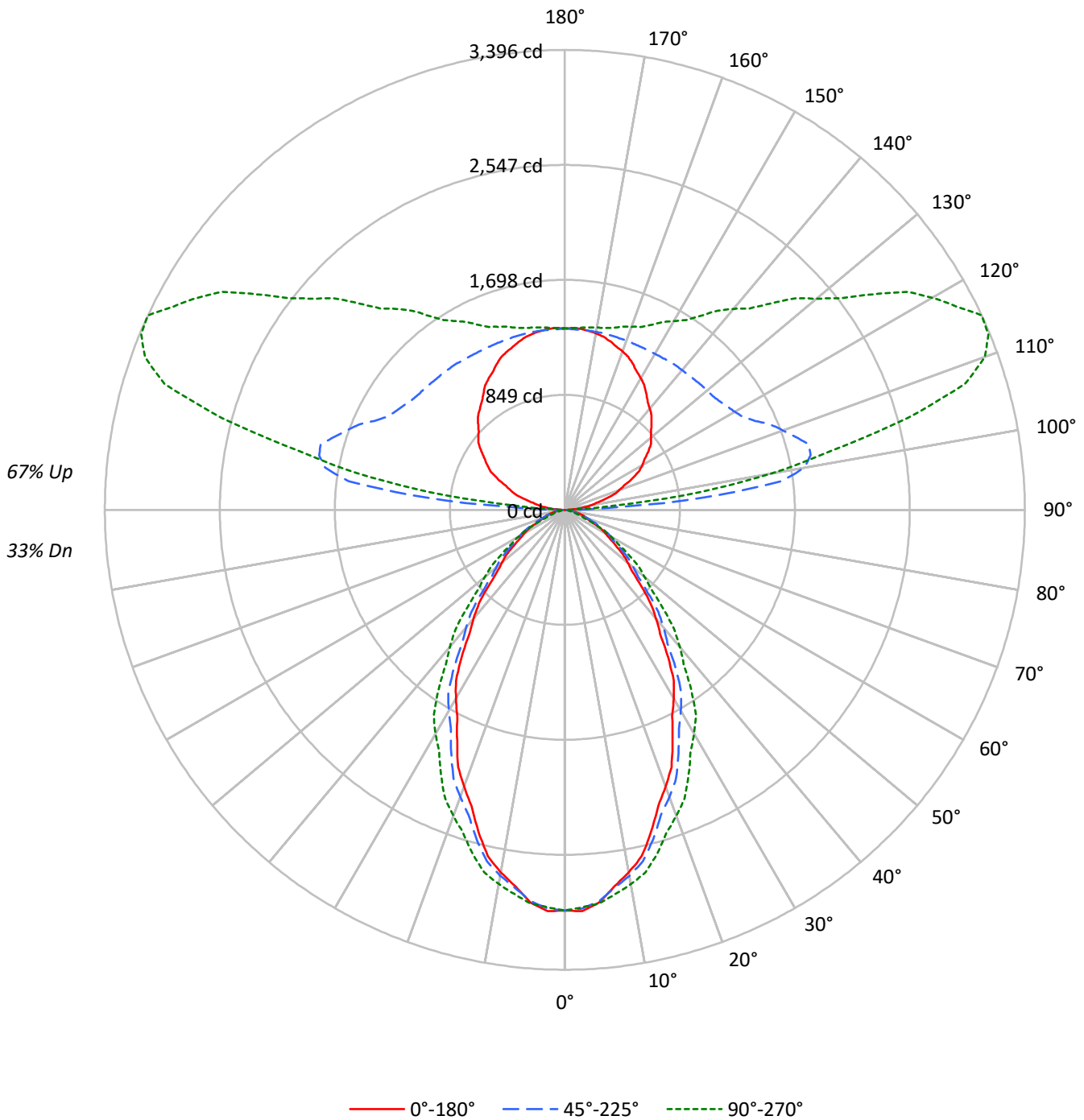
Lumens per Lamp: N/A  
Luminaire Lumens: 12957.8 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 33 |    |    |    |   |
| 1   | 95  | 91  | 87  | 84  | 85 | 82 | 79 | 77 | 66 | 64 | 62 | 51 | 50 | 49 | 37 | 36 | 36 | 30 |    |    |    |   |
| 2   | 87  | 80  | 75  | 70  | 78 | 73 | 68 | 64 | 59 | 55 | 53 | 46 | 44 | 42 | 34 | 32 | 31 | 26 |    |    |    |   |
| 3   | 80  | 71  | 65  | 59  | 72 | 65 | 59 | 54 | 52 | 48 | 45 | 41 | 38 | 36 | 31 | 29 | 28 | 23 |    |    |    |   |
| 4   | 73  | 63  | 56  | 51  | 66 | 58 | 52 | 47 | 47 | 43 | 39 | 37 | 34 | 32 | 28 | 26 | 25 | 21 |    |    |    |   |
| 5   | 68  | 57  | 49  | 44  | 61 | 52 | 45 | 41 | 42 | 38 | 34 | 34 | 31 | 28 | 26 | 24 | 22 | 18 |    |    |    |   |
| 6   | 62  | 51  | 44  | 38  | 56 | 47 | 40 | 36 | 39 | 34 | 30 | 31 | 27 | 25 | 23 | 21 | 20 | 17 |    |    |    |   |
| 7   | 58  | 46  | 39  | 34  | 52 | 43 | 36 | 32 | 35 | 30 | 27 | 28 | 25 | 22 | 22 | 19 | 18 | 15 |    |    |    |   |
| 8   | 54  | 42  | 35  | 30  | 49 | 39 | 33 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 20 | 18 | 16 | 14 |    |    |    |   |
| 9   | 50  | 39  | 32  | 27  | 45 | 36 | 29 | 25 | 30 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 15 | 13 |    |    |    |   |
| 10  | 47  | 36  | 29  | 24  | 43 | 33 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 17 | 15 | 14 | 12 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13648 | 13648 | 13648 |
| 5°  | 13477 | 13429 | 13507 |
| 10° | 12733 | 12849 | 13147 |
| 15° | 11755 | 12027 | 12567 |
| 20° | 10674 | 11076 | 11808 |
| 25° | 9574  | 10097 | 11002 |
| 30° | 8561  | 9120  | 10165 |
| 35° | 7486  | 8027  | 9175  |
| 40° | 6301  | 6801  | 7942  |
| 45° | 5200  | 5649  | 6631  |
| 50° | 4341  | 4733  | 5525  |
| 55° | 3685  | 4062  | 4563  |
| 60° | 3150  | 3522  | 3641  |
| 65° | 2508  | 2961  | 2352  |
| 70° | 2224  | 2312  | 1435  |
| 75° | 2059  | 1873  | 879   |
| 80° | 1897  | 1724  | 760   |
| 85° | 1720  | 1583  | 619   |



TEST NUMBER: P519498

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 271.4   | 2.1       |
| 10°-20°   | 705.8   | 5.4       |
| 20°-30°   | 914.2   | 7.1       |
| 30°-40°   | 895.3   | 6.9       |
| 40°-50°   | 685.3   | 5.3       |
| 50°-60°   | 456.6   | 3.5       |
| 60°-70°   | 249.2   | 1.9       |
| 70°-80°   | 103.8   | 0.8       |
| 80°-90°   | 32.5    | 0.3       |
| 90°-100°  | 626.4   | 4.8       |
| 100°-110° | 1687.3  | 13.0      |
| 110°-120° | 1770.7  | 13.7      |
| 120°-130° | 1436.9  | 11.1      |
| 130°-140° | 1126.9  | 8.7       |
| 140°-150° | 865.2   | 6.7       |
| 150°-160° | 622.1   | 4.8       |
| 160°-170° | 380.0   | 2.9       |
| 170°-180° | 128.2   | 1.0       |
| 0°-30°    | 1891.4  | 14.6      |
| 0°-40°    | 2786.7  | 21.5      |
| 0°-60°    | 3928.6  | 30.3      |
| 0°-90°    | 4314.2  | 33.3      |
| 90°-120°  | 4084.4  | 31.5      |
| 90°-150°  | 7513.4  | 58.0      |
| 90°-180°  | 8644.0  | 66.7      |
| 0°-180°   | 12957.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2958 | 2958  | 2958 | 2958  | 2958 |      |
| 5°   | 2910 | 2881  | 2900 | 2907  | 2917 | 271  |
| 15°  | 2461 | 2452  | 2518 | 2587  | 2631 | 687  |
| 25°  | 1881 | 1886  | 1984 | 2070  | 2161 | 865  |
| 35°  | 1329 | 1336  | 1425 | 1521  | 1629 | 826  |
| 45°  | 797  | 812   | 866  | 931   | 1016 | 622  |
| 55°  | 458  | 477   | 505  | 524   | 567  | 415  |
| 65°  | 230  | 249   | 271  | 237   | 216  | 239  |
| 75°  | 116  | 116   | 105  | 72    | 49   | 123  |
| 85°  | 32   | 32    | 30   | 19    | 12   | 35   |
| 90°  | 3    | 10    | 20   | 22    | 22   | 8    |
| 95°  | 96   | 341   | 1027 | 525   | 363  | 100  |
| 105° | 312  | 486   | 1866 | 2792  | 2620 | 328  |
| 115° | 551  | 674   | 1554 | 3002  | 3396 | 542  |
| 125° | 752  | 864   | 1395 | 2358  | 2775 | 672  |
| 135° | 906  | 1011  | 1356 | 1902  | 2154 | 699  |
| 145° | 1047 | 1129  | 1339 | 1626  | 1747 | 657  |
| 155° | 1189 | 1232  | 1327 | 1459  | 1506 | 547  |
| 165° | 1290 | 1304  | 1332 | 1385  | 1392 | 364  |
| 175° | 1341 | 1339  | 1334 | 1352  | 1349 | 127  |
| 180° | 1339 | 1339  | 1339 | 1339  | 1339 |      |

TEST NUMBER: P519498

CATALOG NUMBER: SQ4-WB-125U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2958.5 | 2958.5 | 2958.5 | 2958.5 | 2958.5 |
| 2.5°   | 2965.7 | 2939.3 | 2946.0 | 2945.8 | 2937.7 |
| 5°     | 2910.4 | 2881.2 | 2900.0 | 2906.8 | 2916.9 |
| 7.5°   | 2802.4 | 2780.3 | 2814.6 | 2840.0 | 2860.6 |
| 10°    | 2718.3 | 2699.3 | 2743.0 | 2779.9 | 2806.6 |
| 12.5°  | 2620.7 | 2604.7 | 2658.8 | 2708.4 | 2743.2 |
| 15°    | 2461.3 | 2452.4 | 2518.4 | 2586.9 | 2631.3 |
| 17.5°  | 2290.7 | 2286.4 | 2362.1 | 2442.0 | 2498.9 |
| 20°    | 2174.4 | 2173.1 | 2256.2 | 2339.4 | 2405.4 |
| 22.5°  | 2057.0 | 2059.8 | 2147.1 | 2233.7 | 2308.9 |
| 25°    | 1881.0 | 1886.1 | 1983.6 | 2070.0 | 2161.4 |
| 27.5°  | 1718.2 | 1720.5 | 1821.3 | 1912.6 | 2010.0 |
| 30°    | 1607.1 | 1613.4 | 1712.2 | 1806.7 | 1908.3 |
| 32.5°  | 1496.0 | 1503.3 | 1600.1 | 1697.7 | 1801.3 |
| 35°    | 1329.3 | 1335.6 | 1425.4 | 1521.3 | 1629.2 |
| 37.5°  | 1157.4 | 1166.0 | 1245.7 | 1336.4 | 1442.5 |
| 40°    | 1046.3 | 1059.0 | 1129.4 | 1214.8 | 1318.9 |
| 42.5°  | 939.3  | 955.1  | 1020.3 | 1101.4 | 1195.3 |
| 45°    | 797.1  | 812.3  | 865.9  | 931.4  | 1016.4 |
| 47.5°  | 674.5  | 692.0  | 733.2  | 789.6  | 862.2  |
| 50°    | 604.9  | 621.4  | 659.5  | 701.3  | 769.8  |
| 52.5°  | 543.7  | 560.2  | 594.0  | 626.2  | 684.6  |
| 55°    | 458.2  | 477.3  | 505.0  | 524.1  | 567.3  |
| 57.5°  | 388.1  | 406.4  | 428.4  | 437.0  | 463.2  |
| 60°    | 341.4  | 361.7  | 381.7  | 380.7  | 394.6  |
| 62.5°  | 298.8  | 316.1  | 336.0  | 322.2  | 323.0  |
| 65°    | 229.8  | 248.8  | 271.3  | 237.1  | 215.5  |
| 67.5°  | 185.6  | 189.7  | 212.9  | 165.3  | 139.7  |
| 70°    | 164.9  | 164.9  | 171.4  | 128.0  | 106.4  |
| 72.5°  | 145.1  | 145.1  | 139.2  | 104.1  | 81.5   |
| 75°    | 115.5  | 115.5  | 105.1  | 72.2   | 49.3   |
| 77.5°  | 89.1   | 88.0   | 80.5   | 53.9   | 35.8   |
| 80°    | 71.4   | 71.4   | 64.9   | 42.5   | 28.6   |
| 82.5°  | 55.8   | 55.8   | 50.4   | 33.2   | 21.3   |
| 85°    | 32.5   | 32.5   | 29.9   | 19.3   | 11.7   |
| 87.5°  | 12.1   | 13.4   | 14.5   | 10.6   | 9.6    |
| 90°    | 3.4    | 10.1   | 20.5   | 22.2   | 22.2   |
| 92.5°  | 41.6   | 147.0  | 290.6  | 139.9  | 97.2   |
| 95°    | 95.5   | 340.7  | 1026.8 | 525.1  | 363.3  |
| 97.5°  | 152.5  | 390.0  | 1610.5 | 1345.4 | 1014.5 |
| 100°   | 196.2  | 409.6  | 1796.1 | 1879.2 | 1559.0 |
| 102.5° | 238.5  | 437.2  | 1857.5 | 2278.9 | 2016.1 |
| 105°   | 312.1  | 485.6  | 1866.0 | 2791.7 | 2619.9 |
| 107.5° | 381.7  | 536.5  | 1786.5 | 3055.2 | 3099.5 |
| 110°   | 428.1  | 574.9  | 1714.2 | 3137.0 | 3298.7 |

TEST NUMBER: P519498

CATALOG NUMBER: SQ4-WB-125U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 477.2  | 613.3  | 1644.6 | 3118.9 | 3384.7 |
| 115°   | 550.9  | 674.3  | 1553.9 | 3002.4 | 3396.0 |
| 117.5° | 618.1  | 733.9  | 1483.6 | 2816.4 | 3254.7 |
| 120°   | 661.8  | 773.5  | 1448.1 | 2683.0 | 3133.3 |
| 122.5° | 700.0  | 810.4  | 1422.2 | 2546.5 | 2995.5 |
| 125°   | 752.2  | 863.9  | 1395.2 | 2358.2 | 2775.1 |
| 127.5° | 802.3  | 912.4  | 1378.2 | 2192.0 | 2564.3 |
| 130°   | 832.4  | 942.4  | 1371.3 | 2096.9 | 2423.7 |
| 132.5° | 862.4  | 971.1  | 1364.5 | 2013.0 | 2313.2 |
| 135°   | 905.7  | 1010.8 | 1356.0 | 1902.4 | 2154.2 |
| 137.5° | 947.0  | 1047.7 | 1351.6 | 1808.6 | 2015.4 |
| 140°   | 975.6  | 1072.4 | 1347.5 | 1750.8 | 1937.6 |
| 142.5° | 1005.7 | 1095.7 | 1344.7 | 1697.0 | 1854.4 |
| 145°   | 1047.3 | 1129.0 | 1338.9 | 1626.5 | 1746.6 |
| 147.5° | 1092.3 | 1163.3 | 1333.1 | 1567.3 | 1661.6 |
| 150°   | 1122.3 | 1184.0 | 1330.4 | 1530.0 | 1608.4 |
| 152.5° | 1149.6 | 1203.3 | 1329.0 | 1499.7 | 1563.4 |
| 155°   | 1188.8 | 1232.2 | 1327.0 | 1459.4 | 1506.1 |
| 157.5° | 1223.3 | 1257.0 | 1327.3 | 1431.1 | 1462.4 |
| 160°   | 1245.1 | 1273.5 | 1328.7 | 1414.5 | 1437.9 |
| 162.5° | 1264.2 | 1287.2 | 1330.1 | 1400.7 | 1417.4 |
| 165°   | 1289.5 | 1304.5 | 1332.1 | 1385.1 | 1391.8 |
| 167.5° | 1309.9 | 1318.6 | 1333.8 | 1373.1 | 1375.8 |
| 170°   | 1323.6 | 1326.9 | 1333.8 | 1366.2 | 1366.2 |
| 172.5° | 1331.8 | 1332.4 | 1335.2 | 1359.4 | 1359.4 |
| 175°   | 1340.6 | 1339.0 | 1333.8 | 1352.5 | 1349.2 |
| 177.5° | 1344.4 | 1341.7 | 1334.8 | 1345.7 | 1343.0 |
| 180°   | 1338.9 | 1338.9 | 1338.9 | 1338.9 | 1338.9 |

(END OF REPORT)