

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: P563068

Luminaire Tested: **SQ4-PC3-125U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563068  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-125D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

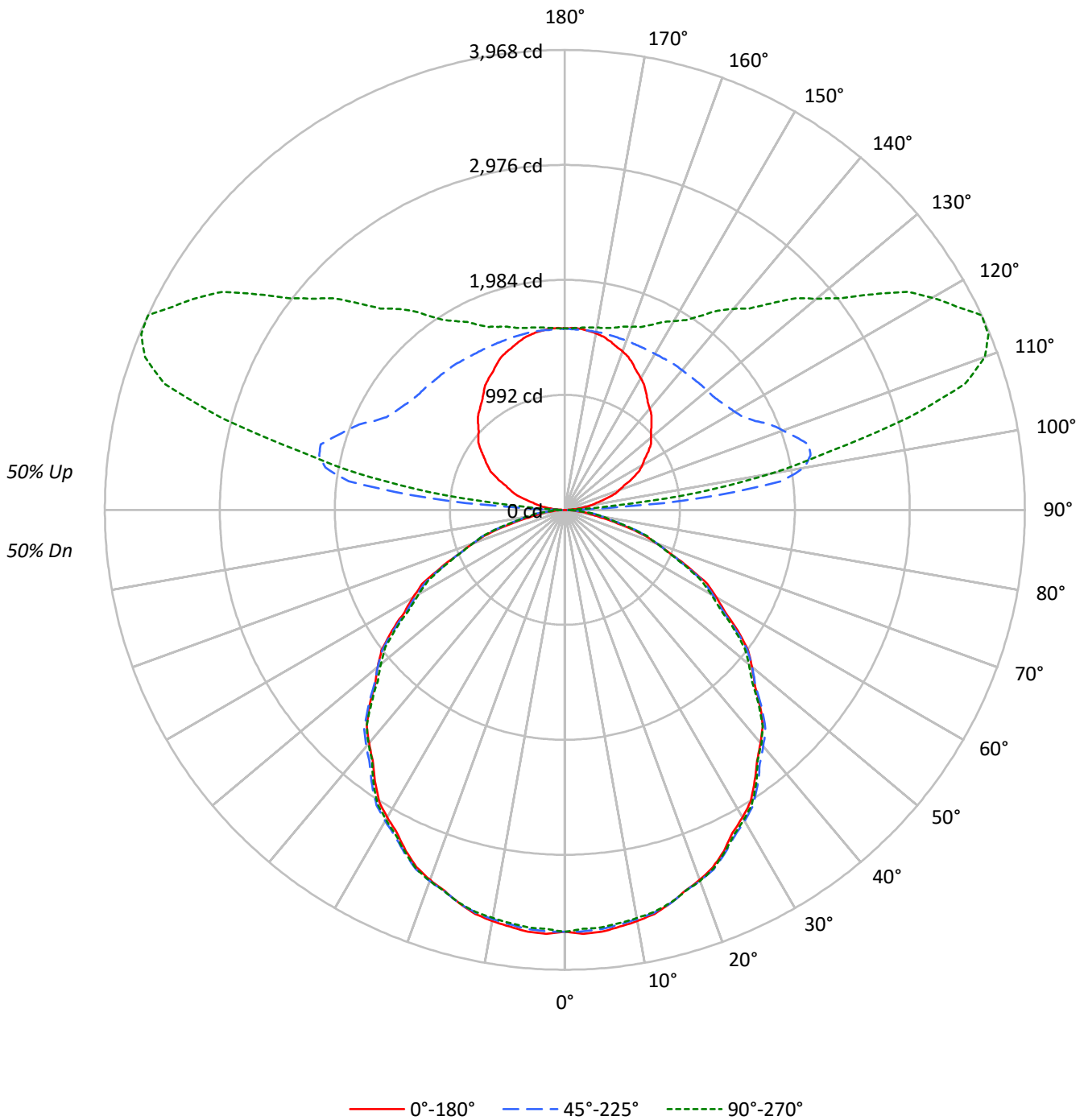
Lumens per Lamp: N/A  
Luminaire Lumens: 20038.3 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 152.7  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 57 | 49 | 48 | 47 | 42 |
| 2   | 89  | 82  | 75  | 70  | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 42 | 40 | 35 |
| 3   | 81  | 72  | 64  | 59  | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 | 30 |
| 4   | 74  | 63  | 56  | 49  | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5   | 68  | 56  | 48  | 42  | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6   | 63  | 51  | 42  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8   | 54  | 41  | 34  | 28  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16794 | 16794 | 16794 |
| 5°  | 16920 | 16811 | 16748 |
| 10° | 16879 | 16800 | 16753 |
| 15° | 16790 | 16790 | 16774 |
| 20° | 16680 | 16729 | 16729 |
| 25° | 16522 | 16642 | 16591 |
| 30° | 16321 | 16519 | 16447 |
| 35° | 16078 | 16325 | 16211 |
| 40° | 15813 | 16036 | 15873 |
| 45° | 15525 | 15635 | 15393 |
| 50° | 15119 | 15119 | 14877 |
| 55° | 14639 | 14450 | 14232 |
| 60° | 13932 | 13653 | 13435 |
| 65° | 12878 | 12621 | 12510 |
| 70° | 11274 | 11366 | 11320 |
| 75° | 9072  | 10033 | 10094 |
| 80° | 6448  | 8506  | 8597  |
| 85° | 3927  | 7135  | 7135  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 344.5   | 1.7       |
| 10°-20°   | 988.7   | 4.9       |
| 20°-30°   | 1497.2  | 7.5       |
| 30°-40°   | 1795.0  | 9.0       |
| 40°-50°   | 1830.3  | 9.1       |
| 50°-60°   | 1597.7  | 8.0       |
| 60°-70°   | 1143.8  | 5.7       |
| 70°-80°   | 589.1   | 2.9       |
| 80°-90°   | 152.6   | 0.8       |
| 90°-100°  | 731.8   | 3.7       |
| 100°-110° | 1971.4  | 9.8       |
| 110°-120° | 2068.9  | 10.3      |
| 120°-130° | 1678.9  | 8.4       |
| 130°-140° | 1316.7  | 6.6       |
| 140°-150° | 1010.9  | 5.0       |
| 150°-160° | 726.8   | 3.6       |
| 160°-170° | 444.1   | 2.2       |
| 170°-180° | 149.7   | 0.7       |
| 0°-30°    | 2830.4  | 14.1      |
| 0°-40°    | 4625.4  | 23.1      |
| 0°-60°    | 8053.4  | 40.2      |
| 0°-90°    | 9939.0  | 49.6      |
| 90°-120°  | 4772.2  | 23.8      |
| 90°-150°  | 8778.6  | 43.8      |
| 90°-180°  | 10099.0 | 50.4      |
| 0°-180°   | 20038.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3640 | 3640  | 3640 | 3640  | 3640 |      |
| 5°   | 3654 | 3618  | 3630 | 3620  | 3617 | 347  |
| 15°  | 3516 | 3486  | 3516 | 3516  | 3512 | 991  |
| 25°  | 3246 | 3223  | 3270 | 3260  | 3260 | 1494 |
| 35°  | 2855 | 2848  | 2899 | 2879  | 2879 | 1786 |
| 45°  | 2380 | 2373  | 2397 | 2366  | 2360 | 1832 |
| 55°  | 1820 | 1797  | 1797 | 1770  | 1770 | 1623 |
| 65°  | 1180 | 1153  | 1156 | 1146  | 1146 | 1167 |
| 75°  | 509  | 532   | 563  | 566   | 566  | 550  |
| 85°  | 74   | 114   | 135  | 138   | 135  | 101  |
| 90°  | 4    | 12    | 24   | 26    | 26   | 11   |
| 95°  | 112  | 398   | 1200 | 614   | 424  | 117  |
| 105° | 365  | 567   | 2180 | 3262  | 3061 | 383  |
| 115° | 644  | 788   | 1816 | 3508  | 3968 | 633  |
| 125° | 879  | 1009  | 1630 | 2755  | 3242 | 785  |
| 135° | 1058 | 1181  | 1584 | 2223  | 2517 | 817  |
| 145° | 1224 | 1319  | 1564 | 1900  | 2041 | 767  |
| 155° | 1389 | 1440  | 1550 | 1705  | 1760 | 639  |
| 165° | 1507 | 1524  | 1556 | 1618  | 1626 | 425  |
| 175° | 1566 | 1564  | 1558 | 1580  | 1576 | 149  |
| 180° | 1564 | 1564  | 1564 | 1564  | 1564 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3640.4 | 3640.4 | 3640.4 | 3640.4 | 3640.4 |
| 2.5°   | 3662.0 | 3630.3 | 3640.4 | 3632.0 | 3618.8 |
| 5°     | 3653.9 | 3617.6 | 3630.3 | 3620.1 | 3616.8 |
| 7.5°   | 3627.6 | 3591.3 | 3608.0 | 3601.2 | 3597.9 |
| 10°    | 3603.3 | 3567.1 | 3586.5 | 3579.6 | 3576.4 |
| 12.5°  | 3571.0 | 3537.3 | 3559.5 | 3552.7 | 3552.1 |
| 15°    | 3515.7 | 3486.0 | 3515.7 | 3515.6 | 3512.3 |
| 17.5°  | 3446.2 | 3419.2 | 3451.0 | 3452.9 | 3451.0 |
| 20°    | 3397.7 | 3368.0 | 3407.8 | 3404.5 | 3407.8 |
| 22.5°  | 3338.4 | 3314.0 | 3356.6 | 3347.9 | 3351.2 |
| 25°    | 3246.0 | 3222.9 | 3269.6 | 3259.5 | 3259.5 |
| 27.5°  | 3136.8 | 3120.3 | 3171.2 | 3160.4 | 3160.4 |
| 30°    | 3064.0 | 3047.5 | 3101.1 | 3087.6 | 3087.6 |
| 32.5°  | 2983.1 | 2971.9 | 3022.9 | 3006.7 | 3006.7 |
| 35°    | 2855.0 | 2848.4 | 2898.8 | 2878.6 | 2878.6 |
| 37.5°  | 2722.9 | 2716.9 | 2762.7 | 2738.2 | 2730.3 |
| 40°    | 2625.8 | 2622.5 | 2662.9 | 2635.9 | 2635.9 |
| 42.5°  | 2528.7 | 2525.4 | 2560.4 | 2528.1 | 2528.1 |
| 45°    | 2379.7 | 2373.1 | 2396.6 | 2366.1 | 2359.5 |
| 47.5°  | 2217.3 | 2210.7 | 2225.4 | 2192.3 | 2189.0 |
| 50°    | 2106.7 | 2100.1 | 2106.7 | 2076.3 | 2073.0 |
| 52.5°  | 1993.5 | 1981.6 | 1982.7 | 1952.3 | 1951.7 |
| 55°    | 1820.2 | 1797.1 | 1796.6 | 1769.6 | 1769.6 |
| 57.5°  | 1636.8 | 1606.5 | 1609.2 | 1586.2 | 1582.9 |
| 60°    | 1510.1 | 1477.1 | 1479.8 | 1459.5 | 1456.2 |
| 62.5°  | 1386.0 | 1347.8 | 1355.7 | 1332.8 | 1332.1 |
| 65°    | 1179.8 | 1153.4 | 1156.2 | 1146.1 | 1146.1 |
| 67.5°  | 981.6  | 957.2  | 974.8  | 966.7  | 966.1  |
| 70°    | 835.9  | 819.5  | 842.7  | 842.6  | 839.3  |
| 72.5°  | 701.1  | 700.5  | 729.4  | 729.5  | 731.4  |
| 75°    | 509.0  | 532.1  | 562.9  | 566.3  | 566.3  |
| 77.5°  | 339.8  | 380.6  | 414.6  | 415.9  | 415.3  |
| 80°    | 242.7  | 288.8  | 320.2  | 326.9  | 323.6  |
| 82.5°  | 164.5  | 213.3  | 239.3  | 246.0  | 242.7  |
| 85°    | 74.2   | 113.7  | 134.8  | 138.1  | 134.8  |
| 87.5°  | 22.4   | 47.7   | 58.7   | 59.0   | 53.7   |
| 90°    | 4.0    | 11.8   | 23.9   | 25.9   | 25.9   |
| 92.5°  | 48.6   | 171.8  | 339.6  | 163.5  | 113.6  |
| 95°    | 111.6  | 398.0  | 1199.7 | 613.5  | 424.5  |
| 97.5°  | 178.2  | 455.6  | 1881.7 | 1572.0 | 1185.4 |
| 100°   | 229.2  | 478.6  | 2098.5 | 2195.6 | 1821.5 |
| 102.5° | 278.6  | 510.9  | 2170.3 | 2662.7 | 2355.6 |
| 105°   | 364.7  | 567.4  | 2180.2 | 3261.8 | 3061.1 |
| 107.5° | 446.0  | 626.8  | 2087.4 | 3569.7 | 3621.5 |
| 110°   | 500.2  | 671.7  | 2002.9 | 3665.2 | 3854.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 557.6  | 716.6  | 1921.5 | 3644.1 | 3954.7 |
| 115°   | 643.7  | 787.9  | 1815.5 | 3508.0 | 3967.9 |
| 117.5° | 722.2  | 857.5  | 1733.4 | 3290.7 | 3802.8 |
| 120°   | 773.2  | 903.8  | 1692.0 | 3134.8 | 3660.9 |
| 122.5° | 817.9  | 946.9  | 1661.7 | 2975.4 | 3499.9 |
| 125°   | 878.9  | 1009.4 | 1630.2 | 2755.3 | 3242.4 |
| 127.5° | 937.5  | 1066.1 | 1610.3 | 2561.2 | 2996.1 |
| 130°   | 972.5  | 1101.1 | 1602.3 | 2450.0 | 2831.9 |
| 132.5° | 1007.6 | 1134.7 | 1594.3 | 2352.0 | 2702.8 |
| 135°   | 1058.2 | 1181.0 | 1584.4 | 2222.8 | 2517.0 |
| 137.5° | 1106.5 | 1224.2 | 1579.2 | 2113.2 | 2354.8 |
| 140°   | 1139.9 | 1253.0 | 1574.4 | 2045.7 | 2263.9 |
| 142.5° | 1175.0 | 1280.2 | 1571.2 | 1982.7 | 2166.7 |
| 145°   | 1223.6 | 1319.1 | 1564.4 | 1900.4 | 2040.7 |
| 147.5° | 1276.2 | 1359.3 | 1557.6 | 1831.2 | 1941.5 |
| 150°   | 1311.3 | 1383.4 | 1554.5 | 1787.7 | 1879.3 |
| 152.5° | 1343.2 | 1406.0 | 1552.9 | 1752.3 | 1826.7 |
| 155°   | 1389.0 | 1439.7 | 1550.5 | 1705.2 | 1759.7 |
| 157.5° | 1429.3 | 1468.7 | 1550.9 | 1672.1 | 1708.7 |
| 160°   | 1454.8 | 1487.9 | 1552.5 | 1652.7 | 1680.0 |
| 162.5° | 1477.1 | 1504.0 | 1554.1 | 1636.6 | 1656.1 |
| 165°   | 1506.6 | 1524.2 | 1556.5 | 1618.4 | 1626.2 |
| 167.5° | 1530.5 | 1540.7 | 1558.4 | 1604.4 | 1607.5 |
| 170°   | 1546.5 | 1550.4 | 1558.4 | 1596.3 | 1596.3 |
| 172.5° | 1556.1 | 1556.8 | 1560.0 | 1588.3 | 1588.3 |
| 175°   | 1566.4 | 1564.5 | 1558.4 | 1580.3 | 1576.4 |
| 177.5° | 1570.8 | 1567.7 | 1559.6 | 1572.3 | 1569.2 |
| 180°   | 1564.4 | 1564.4 | 1564.4 | 1564.4 | 1564.4 |

(END OF REPORT)