

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: P563397

Luminaire Tested: **SQ4-PP3-075U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563397  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17604.2 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

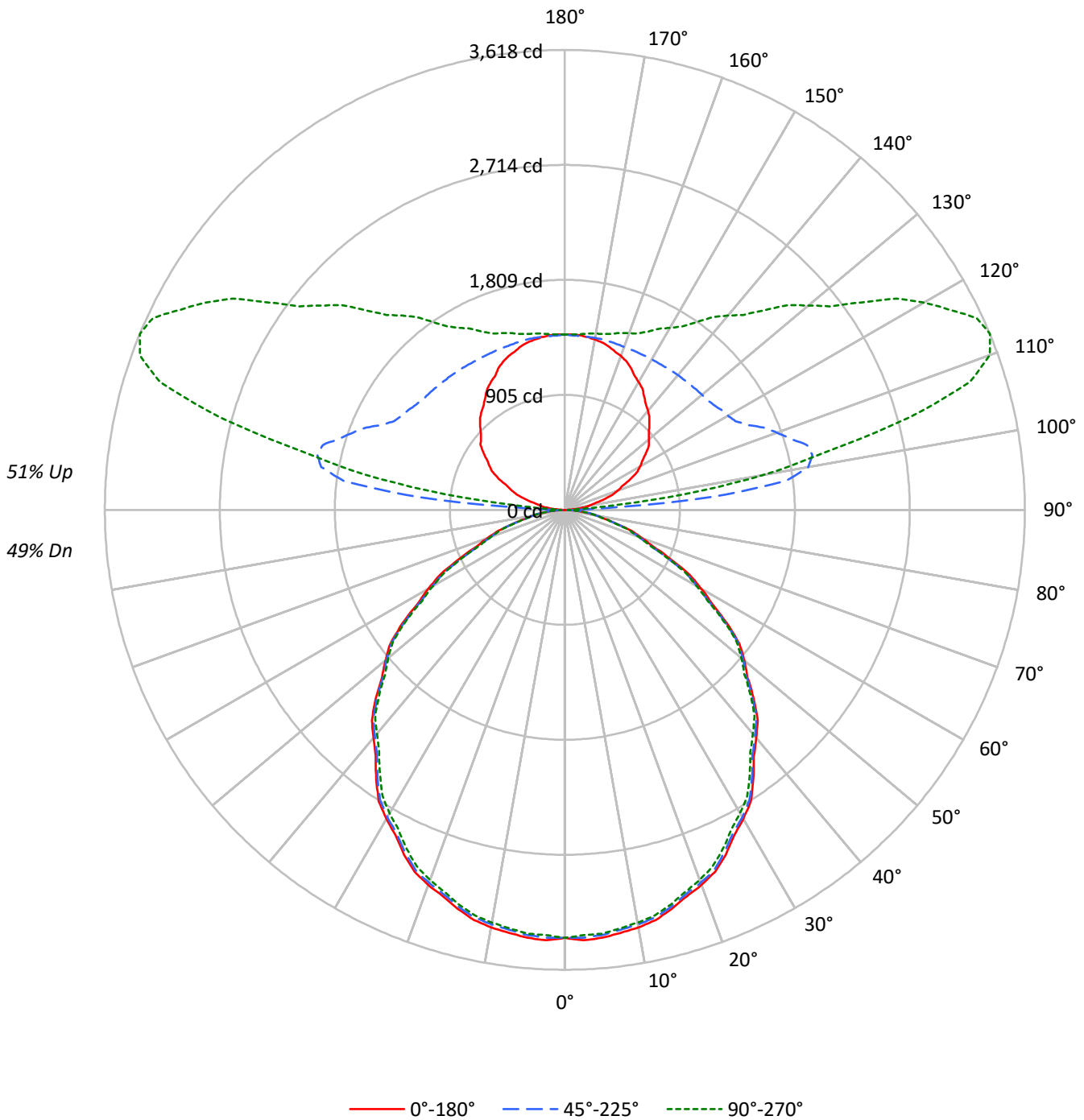
Input Watts (W): 133.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |    |    |    |   |
| 1   | 98  | 94  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 57 | 49 | 48 | 47 | 42 |    |    |    |   |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 43 | 42 | 40 | 35 |    |    |    |   |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |    |    |    |   |
| 4   | 75  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 29 | 26 |    |    |    |   |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 22 |    |    |    |   |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 20 |    |    |    |   |
| 7   | 58  | 46  | 38  | 33  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |    |    |    |   |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 | 16 |    |    |    |   |
| 9   | 50  | 38  | 31  | 26  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10357 | 10357 | 10357 |
| 5°  | 10433 | 10369 | 10333 |
| 10° | 10415 | 10342 | 10295 |
| 15° | 10346 | 10290 | 10234 |
| 20° | 10278 | 10220 | 10143 |
| 25° | 10156 | 10085 | 9985  |
| 30° | 9968  | 9915  | 9790  |
| 35° | 9707  | 9640  | 9518  |
| 40° | 9396  | 9337  | 9230  |
| 45° | 9140  | 9076  | 8986  |
| 50° | 8812  | 8755  | 8670  |
| 55° | 8356  | 8245  | 8182  |
| 60° | 7607  | 7389  | 7353  |
| 65° | 6701  | 6422  | 6400  |
| 70° | 5785  | 5547  | 5547  |
| 75° | 4980  | 4910  | 4840  |
| 80° | 4390  | 4444  | 4339  |
| 85° | 3437  | 3751  | 3751  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 318.4   | 1.8       |
| 10°-20°   | 909.3   | 5.2       |
| 20°-30°   | 1361.9  | 7.7       |
| 30°-40°   | 1597.5  | 9.1       |
| 40°-50°   | 1602.5  | 9.1       |
| 50°-60°   | 1367.1  | 7.8       |
| 60°-70°   | 891.6   | 5.1       |
| 70°-80°   | 447.3   | 2.5       |
| 80°-90°   | 127.3   | 0.7       |
| 90°-100°  | 650.2   | 3.7       |
| 100°-110° | 1789.0  | 10.2      |
| 110°-120° | 1846.5  | 10.5      |
| 120°-130° | 1479.4  | 8.4       |
| 130°-140° | 1162.0  | 6.6       |
| 140°-150° | 890.5   | 5.1       |
| 150°-160° | 640.2   | 3.6       |
| 160°-170° | 391.5   | 2.2       |
| 170°-180° | 132.0   | 0.7       |
| 0°-30°    | 2589.7  | 14.7      |
| 0°-40°    | 4187.1  | 23.8      |
| 0°-60°    | 7156.7  | 40.7      |
| 0°-90°    | 8622.8  | 49.0      |
| 90°-120°  | 4285.7  | 24.3      |
| 90°-150°  | 7817.7  | 44.4      |
| 90°-180°  | 8981.0  | 51.0      |
| 0°-180°   | 17604.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3368 | 3368  | 3368 | 3368  | 3368 |      |
| 5°   | 3380 | 3348  | 3359 | 3347  | 3347 | 321  |
| 15°  | 3250 | 3218  | 3232 | 3220  | 3214 | 917  |
| 25°  | 2993 | 2958  | 2972 | 2946  | 2943 | 1376 |
| 35°  | 2586 | 2560  | 2568 | 2538  | 2535 | 1615 |
| 45°  | 2102 | 2087  | 2087 | 2066  | 2066 | 1618 |
| 55°  | 1558 | 1553  | 1538 | 1529  | 1526 | 1385 |
| 65°  | 921  | 904   | 882  | 877   | 880  | 919  |
| 75°  | 419  | 419   | 413  | 410   | 407  | 455  |
| 85°  | 97   | 106   | 106  | 106   | 106  | 114  |
| 90°  | 3    | 12    | 20   | 26    | 26   | 10   |
| 95°  | 97   | 355   | 1150 | 492   | 314  | 102  |
| 105° | 320  | 492   | 1971 | 3002  | 2801 | 337  |
| 115° | 566  | 690   | 1581 | 3148  | 3573 | 559  |
| 125° | 780  | 889   | 1434 | 2426  | 2842 | 696  |
| 135° | 942  | 1045  | 1393 | 1962  | 2220 | 727  |
| 145° | 1088 | 1163  | 1373 | 1672  | 1801 | 682  |
| 155° | 1232 | 1272  | 1364 | 1503  | 1546 | 566  |
| 165° | 1332 | 1349  | 1370 | 1426  | 1434 | 375  |
| 175° | 1379 | 1382  | 1373 | 1390  | 1387 | 131  |
| 180° | 1379 | 1379  | 1379 | 1379  | 1379 |      |

TEST NUMBER: P563397

CATALOG NUMBER: SQ4-PP3-075U-075D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 |
| 2.5°   | 3388.9 | 3361.2 | 3367.6 | 3362.6 | 3348.8 |
| 5°     | 3379.5 | 3347.7 | 3358.8 | 3347.0 | 3347.0 |
| 7.5°   | 3356.4 | 3321.8 | 3332.8 | 3321.0 | 3320.4 |
| 10°    | 3335.2 | 3300.5 | 3311.6 | 3299.7 | 3296.8 |
| 12.5°  | 3304.5 | 3269.9 | 3283.2 | 3269.1 | 3268.5 |
| 15°    | 3249.6 | 3217.8 | 3231.9 | 3219.9 | 3214.2 |
| 17.5°  | 3187.6 | 3153.0 | 3169.9 | 3153.3 | 3151.0 |
| 20°    | 3140.4 | 3105.8 | 3122.7 | 3099.1 | 3099.1 |
| 22.5°  | 3083.7 | 3049.1 | 3068.4 | 3037.7 | 3037.7 |
| 25°    | 2992.8 | 2958.2 | 2972.1 | 2945.5 | 2942.6 |
| 27.5°  | 2884.8 | 2850.7 | 2865.3 | 2835.2 | 2834.6 |
| 30°    | 2806.9 | 2775.1 | 2792.1 | 2759.6 | 2756.7 |
| 32.5°  | 2721.9 | 2692.4 | 2704.7 | 2672.2 | 2669.3 |
| 35°    | 2585.5 | 2559.5 | 2567.8 | 2538.2 | 2535.3 |
| 37.5°  | 2442.1 | 2415.5 | 2424.9 | 2399.5 | 2398.4 |
| 40°    | 2340.5 | 2323.2 | 2325.8 | 2305.0 | 2299.2 |
| 42.5°  | 2246.1 | 2226.5 | 2229.0 | 2208.3 | 2207.1 |
| 45°    | 2101.5 | 2087.0 | 2086.7 | 2066.0 | 2066.0 |
| 47.5°  | 1948.0 | 1937.0 | 1933.8 | 1916.7 | 1916.1 |
| 50°    | 1841.7 | 1833.1 | 1829.9 | 1815.1 | 1812.2 |
| 52.5°  | 1730.8 | 1726.7 | 1716.6 | 1704.2 | 1703.6 |
| 55°    | 1558.4 | 1552.6 | 1537.7 | 1528.8 | 1525.9 |
| 57.5°  | 1371.3 | 1359.7 | 1342.9 | 1330.0 | 1332.3 |
| 60°    | 1236.7 | 1225.1 | 1201.3 | 1195.4 | 1195.4 |
| 62.5°  | 1106.8 | 1093.0 | 1069.0 | 1060.9 | 1065.5 |
| 65°    | 920.9  | 903.5  | 882.5  | 876.7  | 879.5  |
| 67.5°  | 752.0  | 736.5  | 713.7  | 713.6  | 711.3  |
| 70°    | 643.4  | 634.8  | 616.9  | 616.9  | 616.9  |
| 72.5°  | 546.6  | 542.6  | 529.5  | 529.4  | 527.1  |
| 75°    | 419.1  | 419.1  | 413.2  | 410.2  | 407.3  |
| 77.5°  | 314.0  | 315.2  | 312.3  | 309.2  | 304.0  |
| 80°    | 247.9  | 253.7  | 250.9  | 247.9  | 245.0  |
| 82.5°  | 186.5  | 192.3  | 191.8  | 186.5  | 185.9  |
| 85°    | 97.4   | 106.1  | 106.3  | 106.3  | 106.3  |
| 87.5°  | 26.6   | 37.5   | 41.9   | 43.1   | 45.4   |
| 90°    | 2.9    | 11.5   | 20.5   | 26.4   | 26.4   |
| 92.5°  | 40.5   | 173.0  | 299.8  | 115.1  | 94.5   |
| 95°    | 96.8   | 354.9  | 1149.9 | 491.7  | 313.9  |
| 97.5°  | 157.8  | 393.6  | 1754.7 | 1352.0 | 953.9  |
| 100°   | 202.4  | 417.5  | 1944.8 | 1963.0 | 1601.6 |
| 102.5° | 244.6  | 446.0  | 1994.1 | 2435.3 | 2103.8 |
| 105°   | 319.7  | 491.8  | 1971.2 | 3002.1 | 2801.3 |
| 107.5° | 391.3  | 548.5  | 1859.1 | 3279.6 | 3339.3 |
| 110°   | 442.9  | 586.3  | 1774.6 | 3348.7 | 3555.2 |

TEST NUMBER: P563397

CATALOG NUMBER: SQ4-PP3-075U-075D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 489.9  | 628.7  | 1690.2 | 3304.2 | 3618.5 |
| 115°   | 566.1  | 689.5  | 1581.0 | 3148.3 | 3572.8 |
| 117.5° | 638.9  | 752.4  | 1511.8 | 2929.5 | 3409.7 |
| 120°   | 683.5  | 792.4  | 1481.3 | 2765.6 | 3261.8 |
| 122.5° | 723.4  | 832.3  | 1460.2 | 2621.9 | 3092.9 |
| 125°   | 780.3  | 889.2  | 1434.4 | 2426.5 | 2842.4 |
| 127.5° | 834.2  | 938.1  | 1417.4 | 2263.4 | 2628.2 |
| 130°   | 862.4  | 968.5  | 1408.0 | 2166.5 | 2499.2 |
| 132.5° | 895.2  | 1001.4 | 1400.9 | 2081.3 | 2381.8 |
| 135°   | 941.6  | 1044.8 | 1393.3 | 1962.4 | 2220.5 |
| 137.5° | 985.0  | 1080.8 | 1386.9 | 1866.3 | 2079.1 |
| 140°   | 1017.9 | 1106.8 | 1384.5 | 1802.5 | 1994.6 |
| 142.5° | 1046.0 | 1128.0 | 1379.8 | 1745.5 | 1910.2 |
| 145°   | 1088.3 | 1162.8 | 1372.8 | 1672.0 | 1801.0 |
| 147.5° | 1133.4 | 1197.7 | 1369.3 | 1606.9 | 1710.1 |
| 150°   | 1161.6 | 1218.9 | 1366.9 | 1571.1 | 1651.4 |
| 152.5° | 1187.4 | 1240.2 | 1364.6 | 1540.3 | 1606.9 |
| 155°   | 1232.0 | 1272.1 | 1364.0 | 1502.8 | 1545.8 |
| 157.5° | 1264.3 | 1296.9 | 1364.0 | 1472.0 | 1501.8 |
| 160°   | 1287.7 | 1313.5 | 1364.0 | 1455.4 | 1478.4 |
| 162.5° | 1306.5 | 1327.7 | 1366.3 | 1441.3 | 1459.6 |
| 165°   | 1331.7 | 1348.9 | 1369.8 | 1425.8 | 1434.4 |
| 167.5° | 1349.3 | 1362.5 | 1372.8 | 1412.7 | 1415.0 |
| 170°   | 1361.0 | 1369.7 | 1372.8 | 1408.0 | 1408.0 |
| 172.5° | 1370.4 | 1374.5 | 1372.8 | 1400.9 | 1398.6 |
| 175°   | 1378.6 | 1381.5 | 1372.8 | 1390.3 | 1387.4 |
| 177.5° | 1381.0 | 1381.0 | 1371.6 | 1385.6 | 1381.0 |
| 180°   | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 |

(END OF REPORT)