

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: P564133

Luminaire Tested: **SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564133  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20326.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

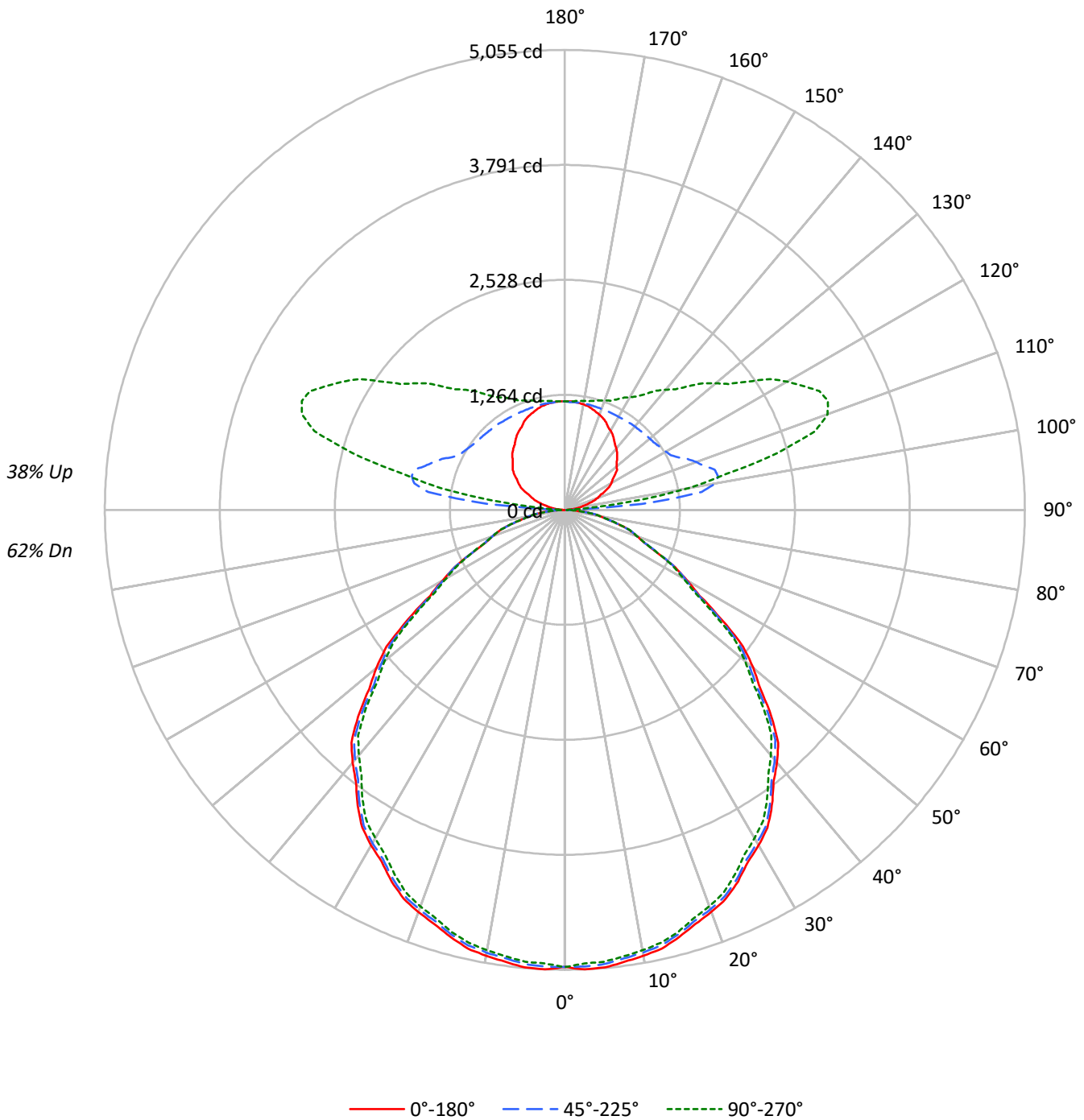
Input Watts (W): 194.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P564133

CATALOG NUMBER: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P564133

CATALOG NUMBER: SQ4-PR1-075U-125D-940-1D-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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1   | 101 | 97  | 93  | 89  | 94  | 91  | 87  | 84  | 79 | 77 | 75 | 69 | 67 | 66 | 60 | 58 | 57 | 53 |
| 2   | 92  | 85  | 79  | 74  | 86  | 80  | 74  | 70  | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 51 | 49 | 45 |
| 3   | 84  | 75  | 67  | 62  | 79  | 70  | 64  | 59  | 62 | 57 | 53 | 54 | 51 | 47 | 47 | 44 | 42 | 38 |
| 4   | 77  | 66  | 59  | 53  | 72  | 63  | 56  | 50  | 55 | 50 | 45 | 49 | 44 | 41 | 42 | 39 | 36 | 33 |
| 5   | 71  | 59  | 51  | 45  | 66  | 56  | 49  | 43  | 50 | 44 | 39 | 44 | 39 | 36 | 38 | 35 | 32 | 29 |
| 6   | 66  | 53  | 45  | 39  | 61  | 51  | 43  | 38  | 45 | 39 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 26 |
| 7   | 61  | 48  | 40  | 35  | 57  | 46  | 38  | 33  | 41 | 35 | 31 | 36 | 31 | 28 | 32 | 28 | 25 | 23 |
| 8   | 56  | 44  | 36  | 31  | 53  | 42  | 35  | 30  | 37 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 23 | 20 |
| 9   | 53  | 40  | 33  | 28  | 49  | 38  | 31  | 27  | 34 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 10  | 49  | 37  | 30  | 25  | 46  | 35  | 28  | 24  | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 19 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15451 | 15451 | 15451 |
| 5°  | 15590 | 15470 | 15390 |
| 10° | 15541 | 15432 | 15352 |
| 15° | 15472 | 15376 | 15293 |
| 20° | 15394 | 15295 | 15182 |
| 25° | 15286 | 15183 | 15007 |
| 30° | 15121 | 15014 | 14798 |
| 35° | 14898 | 14768 | 14557 |
| 40° | 14558 | 14402 | 14142 |
| 45° | 13965 | 13720 | 13438 |
| 50° | 12920 | 12609 | 12360 |
| 55° | 11276 | 11021 | 10789 |
| 60° | 9502  | 9422  | 9236  |
| 65° | 8219  | 8251  | 8187  |
| 70° | 7549  | 7587  | 7587  |
| 75° | 7251  | 7251  | 7302  |
| 80° | 6820  | 6898  | 6820  |
| 85° | 5498  | 6108  | 6108  |



TEST NUMBER: P564133

CATALOG NUMBER: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.1   | 2.3       |
| 10°-20°   | 1359.3  | 6.7       |
| 20°-30°   | 2050.3  | 10.1      |
| 30°-40°   | 2442.9  | 12.0      |
| 40°-50°   | 2408.5  | 11.8      |
| 50°-60°   | 1840.7  | 9.1       |
| 60°-70°   | 1139.1  | 5.6       |
| 70°-80°   | 647.0   | 3.2       |
| 80°-90°   | 199.8   | 1.0       |
| 90°-100°  | 562.1   | 2.8       |
| 100°-110° | 1546.5  | 7.6       |
| 110°-120° | 1596.3  | 7.9       |
| 120°-130° | 1279.0  | 6.3       |
| 130°-140° | 1004.5  | 4.9       |
| 140°-150° | 769.8   | 3.8       |
| 150°-160° | 553.5   | 2.7       |
| 160°-170° | 338.4   | 1.7       |
| 170°-180° | 114.1   | 0.6       |
| 0°-30°    | 3884.7  | 19.1      |
| 0°-40°    | 6327.6  | 31.1      |
| 0°-60°    | 10576.7 | 52.0      |
| 0°-90°    | 12562.6 | 61.8      |
| 90°-120°  | 3704.9  | 18.2      |
| 90°-150°  | 6758.2  | 33.2      |
| 90°-180°  | 7764.0  | 38.2      |
| 0°-180°   | 20326.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5024 | 5024  | 5024 | 5024  | 5024 |      |
| 5°   | 5050 | 4995  | 5011 | 4994  | 4985 | 479  |
| 15°  | 4860 | 4809  | 4829 | 4812  | 4803 | 1371 |
| 25°  | 4505 | 4450  | 4474 | 4427  | 4423 | 2073 |
| 35°  | 3968 | 3922  | 3934 | 3882  | 3877 | 2477 |
| 45°  | 3211 | 3169  | 3155 | 3098  | 3090 | 2460 |
| 55°  | 2103 | 2069  | 2056 | 2021  | 2012 | 1884 |
| 65°  | 1129 | 1121  | 1134 | 1125  | 1125 | 1144 |
| 75°  | 610  | 610   | 610  | 614   | 614  | 644  |
| 85°  | 156  | 164   | 173  | 173   | 173  | 181  |
| 90°  | 2    | 10    | 18   | 23    | 23   | 12   |
| 95°  | 84   | 307   | 994  | 425   | 271  | 88   |
| 105° | 276  | 425   | 1704 | 2595  | 2422 | 291  |
| 115° | 489  | 596   | 1367 | 2722  | 3089 | 483  |
| 125° | 674  | 769   | 1240 | 2098  | 2457 | 602  |
| 135° | 814  | 903   | 1204 | 1696  | 1920 | 628  |
| 145° | 941  | 1005  | 1187 | 1445  | 1557 | 590  |
| 155° | 1065 | 1100  | 1179 | 1299  | 1336 | 489  |
| 165° | 1151 | 1166  | 1184 | 1233  | 1240 | 324  |
| 175° | 1192 | 1194  | 1187 | 1202  | 1199 | 113  |
| 180° | 1192 | 1192  | 1192 | 1192  | 1192 |      |

TEST NUMBER: P564133

CATALOG NUMBER: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5024.1 | 5024.1 | 5024.1 | 5024.1 | 5024.1 |
| 2.5°   | 5055.2 | 5011.2 | 5024.1 | 5013.1 | 4989.4 |
| 5°     | 5050.0 | 4995.0 | 5011.1 | 4993.6 | 4985.1 |
| 7.5°   | 5011.1 | 4956.9 | 4973.0 | 4955.6 | 4950.5 |
| 10°    | 4976.5 | 4925.7 | 4941.8 | 4924.3 | 4915.9 |
| 12.5°  | 4938.4 | 4884.2 | 4903.8 | 4882.8 | 4874.3 |
| 15°    | 4859.6 | 4808.8 | 4829.3 | 4811.8 | 4803.4 |
| 17.5°  | 4773.1 | 4718.9 | 4739.3 | 4719.2 | 4708.2 |
| 20°    | 4703.8 | 4653.1 | 4673.5 | 4643.2 | 4638.9 |
| 22.5°  | 4627.7 | 4576.9 | 4597.4 | 4556.7 | 4555.8 |
| 25°    | 4504.8 | 4449.8 | 4474.5 | 4426.8 | 4422.6 |
| 27.5°  | 4358.5 | 4307.7 | 4328.2 | 4279.6 | 4274.6 |
| 30°    | 4258.1 | 4207.3 | 4227.8 | 4175.7 | 4167.2 |
| 32.5°  | 4143.9 | 4096.5 | 4113.6 | 4061.5 | 4056.5 |
| 35°    | 3968.2 | 3921.6 | 3933.6 | 3881.5 | 3877.3 |
| 37.5°  | 3768.3 | 3725.9 | 3732.8 | 3675.6 | 3671.3 |
| 40°    | 3626.3 | 3584.0 | 3587.4 | 3526.7 | 3522.5 |
| 42.5°  | 3470.5 | 3428.2 | 3424.7 | 3364.0 | 3359.8 |
| 45°    | 3210.9 | 3168.6 | 3154.6 | 3098.2 | 3089.7 |
| 47.5°  | 2914.9 | 2872.6 | 2846.5 | 2800.5 | 2794.6 |
| 50°    | 2700.3 | 2658.0 | 2635.4 | 2596.1 | 2583.4 |
| 52.5°  | 2468.3 | 2426.0 | 2406.9 | 2371.1 | 2358.4 |
| 55°    | 2103.1 | 2069.2 | 2055.5 | 2020.7 | 2012.2 |
| 57.5°  | 1756.0 | 1733.2 | 1729.2 | 1695.4 | 1692.0 |
| 60°    | 1544.9 | 1532.2 | 1531.9 | 1501.6 | 1501.6 |
| 62.5°  | 1364.8 | 1355.5 | 1362.3 | 1342.3 | 1338.9 |
| 65°    | 1129.4 | 1121.0 | 1133.8 | 1125.1 | 1125.1 |
| 67.5°  | 943.4  | 943.4  | 951.2  | 947.7  | 947.7  |
| 70°    | 839.5  | 839.5  | 843.8  | 843.8  | 843.8  |
| 72.5°  | 746.0  | 742.7  | 753.8  | 753.7  | 750.4  |
| 75°    | 610.2  | 610.2  | 610.2  | 614.5  | 614.5  |
| 77.5°  | 475.1  | 476.0  | 479.5  | 478.5  | 475.1  |
| 80°    | 385.1  | 389.4  | 389.5  | 385.1  | 385.1  |
| 82.5°  | 295.1  | 299.4  | 299.5  | 298.5  | 295.1  |
| 85°    | 155.8  | 164.2  | 173.1  | 173.1  | 173.1  |
| 87.5°  | 45.5   | 60.5   | 72.8   | 73.7   | 70.3   |
| 90°    | 2.5    | 10.0   | 17.8   | 22.8   | 22.8   |
| 92.5°  | 35.0   | 149.5  | 259.2  | 99.5   | 81.7   |
| 95°    | 83.7   | 306.8  | 994.0  | 425.1  | 271.3  |
| 97.5°  | 136.4  | 340.2  | 1516.9 | 1168.8 | 824.6  |
| 100°   | 175.0  | 360.9  | 1681.2 | 1696.9 | 1384.5 |
| 102.5° | 211.5  | 385.5  | 1723.8 | 2105.3 | 1818.7 |
| 105°   | 276.4  | 425.2  | 1704.0 | 2595.2 | 2421.7 |
| 107.5° | 338.3  | 474.1  | 1607.2 | 2835.2 | 2886.7 |
| 110°   | 382.9  | 506.9  | 1534.1 | 2894.8 | 3073.4 |

TEST NUMBER: P564133

CATALOG NUMBER: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 423.5  | 543.5  | 1461.1 | 2856.4 | 3128.1 |
| 115°   | 489.4  | 596.0  | 1366.8 | 2721.6 | 3088.6 |
| 117.5° | 552.3  | 650.5  | 1306.9 | 2532.5 | 2947.6 |
| 120°   | 590.8  | 685.1  | 1280.6 | 2390.8 | 2819.8 |
| 122.5° | 625.3  | 719.5  | 1262.3 | 2266.6 | 2673.7 |
| 125°   | 674.5  | 768.7  | 1240.0 | 2097.7 | 2457.2 |
| 127.5° | 721.2  | 810.9  | 1225.3 | 1956.7 | 2272.1 |
| 130°   | 745.5  | 837.3  | 1217.2 | 1872.9 | 2160.5 |
| 132.5° | 773.9  | 865.7  | 1211.1 | 1799.2 | 2059.1 |
| 135°   | 814.0  | 903.2  | 1204.5 | 1696.4 | 1919.6 |
| 137.5° | 851.5  | 934.3  | 1198.9 | 1613.4 | 1797.4 |
| 140°   | 879.9  | 956.8  | 1196.9 | 1558.2 | 1724.3 |
| 142.5° | 904.3  | 975.2  | 1192.8 | 1509.0 | 1651.3 |
| 145°   | 940.8  | 1005.2 | 1186.7 | 1445.4 | 1557.0 |
| 147.5° | 979.8  | 1035.4 | 1183.7 | 1389.1 | 1478.4 |
| 150°   | 1004.2 | 1053.8 | 1181.7 | 1358.2 | 1427.6 |
| 152.5° | 1026.5 | 1072.1 | 1179.6 | 1331.6 | 1389.1 |
| 155°   | 1065.0 | 1099.7 | 1179.1 | 1299.2 | 1336.4 |
| 157.5° | 1092.9 | 1121.2 | 1179.1 | 1272.5 | 1298.3 |
| 160°   | 1113.2 | 1135.5 | 1179.1 | 1258.2 | 1278.0 |
| 162.5° | 1129.4 | 1147.8 | 1181.2 | 1245.9 | 1261.8 |
| 165°   | 1151.2 | 1166.1 | 1184.2 | 1232.6 | 1240.0 |
| 167.5° | 1166.5 | 1177.9 | 1186.7 | 1221.3 | 1223.3 |
| 170°   | 1176.6 | 1184.0 | 1186.7 | 1217.2 | 1217.2 |
| 172.5° | 1184.7 | 1188.2 | 1186.7 | 1211.0 | 1209.1 |
| 175°   | 1191.8 | 1194.3 | 1186.7 | 1201.9 | 1199.4 |
| 177.5° | 1193.8 | 1193.8 | 1185.7 | 1197.8 | 1193.8 |
| 180°   | 1191.8 | 1191.8 | 1191.8 | 1191.8 | 1191.8 |

(END OF REPORT)