

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: P564795

Luminaire Tested: **SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564795  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

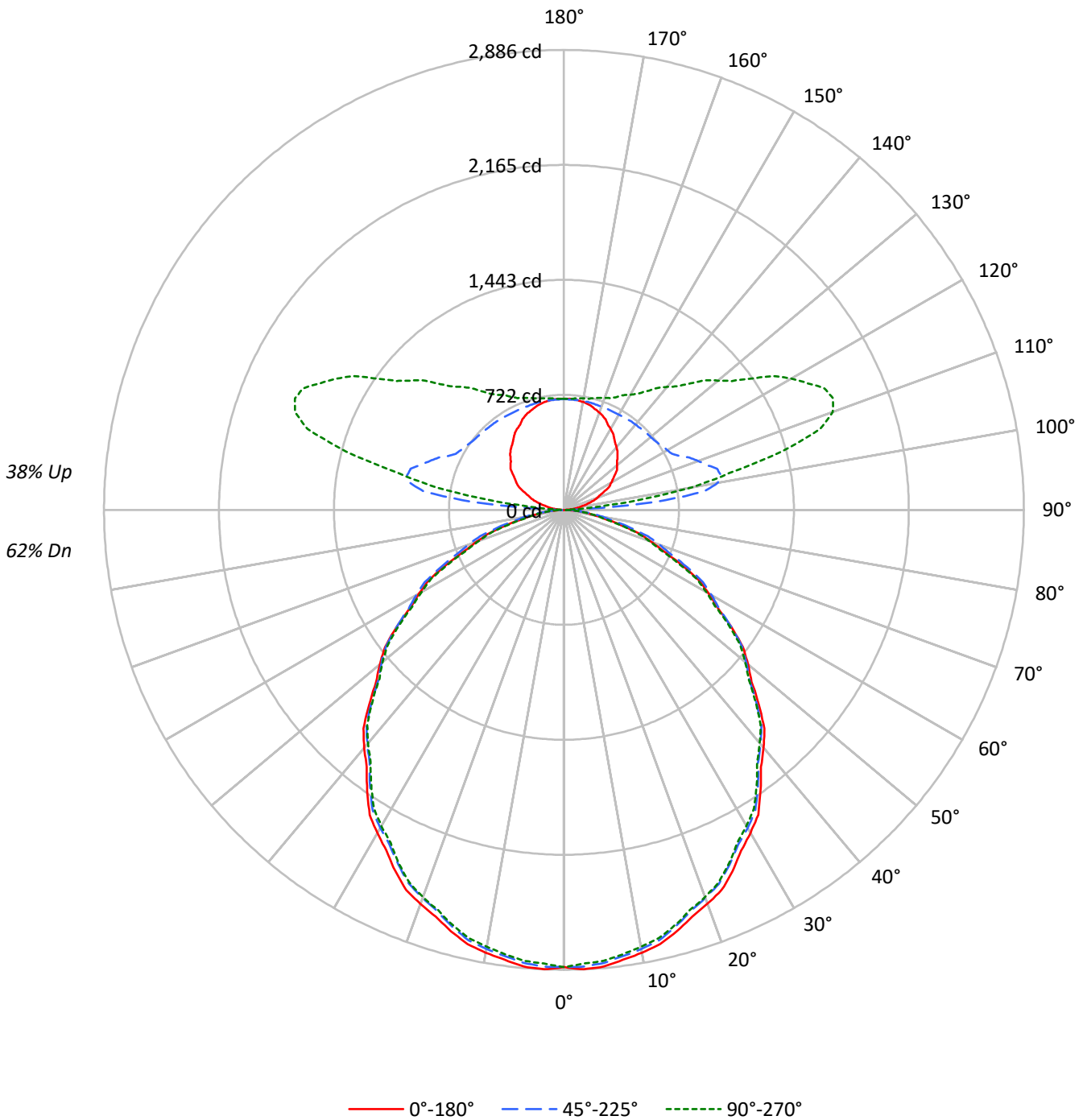
Lumens per Lamp: N/A  
Luminaire Lumens: 11838.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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: P564795  
CATALOG NUMBER: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P564795

CATALOG NUMBER: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6

**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 | 96  | 92  | 89  | 94  | 90  | 87  | 84  | 79 | 77 | 74 | 69 | 67 | 65 | 59 | 58 | 57 | 52 |
| 2   | 92  | 84  | 78  | 73  | 86  | 79  | 74  | 69  | 69 | 65 | 62 | 61 | 57 | 55 | 52 | 50 | 48 | 44 |
| 3   | 84  | 74  | 67  | 61  | 78  | 70  | 63  | 58  | 61 | 56 | 52 | 54 | 50 | 46 | 46 | 43 | 41 | 37 |
| 4   | 77  | 66  | 58  | 51  | 71  | 62  | 55  | 49  | 55 | 49 | 44 | 48 | 43 | 40 | 42 | 38 | 35 | 32 |
| 5   | 70  | 59  | 50  | 44  | 66  | 55  | 48  | 42  | 49 | 43 | 38 | 43 | 38 | 35 | 37 | 34 | 31 | 28 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 44 | 38 | 34 | 39 | 34 | 30 | 34 | 30 | 27 | 24 |
| 7   | 60  | 48  | 39  | 34  | 56  | 45  | 38  | 32  | 40 | 34 | 30 | 35 | 31 | 27 | 31 | 27 | 24 | 22 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 26 | 32 | 28 | 24 | 29 | 25 | 22 | 19 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 22 | 20 | 18 |
| 10  | 49  | 36  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 28 | 23 | 20 | 24 | 21 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17648 | 17648 | 17648 |
| 5°  | 17763 | 17623 | 17544 |
| 10° | 17621 | 17479 | 17384 |
| 15° | 17434 | 17241 | 17176 |
| 20° | 17226 | 16961 | 16928 |
| 25° | 16986 | 16677 | 16625 |
| 30° | 16627 | 16375 | 16267 |
| 35° | 16154 | 15926 | 15831 |
| 40° | 15650 | 15407 | 15346 |
| 45° | 15042 | 14843 | 14778 |
| 50° | 14418 | 14297 | 14200 |
| 55° | 13744 | 13744 | 13528 |
| 60° | 12906 | 13155 | 12688 |
| 65° | 11811 | 12400 | 11517 |
| 70° | 10411 | 11411 | 10139 |
| 75° | 8893  | 10214 | 8650  |
| 80° | 6896  | 8597  | 6985  |
| 85° | 4460  | 6599  | 5886  |



TEST NUMBER: P564795

CATALOG NUMBER: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 270.2   | 2.3       |
| 10°-20°   | 762.8   | 6.4       |
| 20°-30°   | 1131.5  | 9.6       |
| 30°-40°   | 1324.0  | 11.2      |
| 40°-50°   | 1318.1  | 11.1      |
| 50°-60°   | 1138.2  | 9.6       |
| 60°-70°   | 819.3   | 6.9       |
| 70°-80°   | 429.7   | 3.6       |
| 80°-90°   | 108.3   | 0.9       |
| 90°-100°  | 328.4   | 2.8       |
| 100°-110° | 903.5   | 7.6       |
| 110°-120° | 932.6   | 7.9       |
| 120°-130° | 747.2   | 6.3       |
| 130°-140° | 586.8   | 5.0       |
| 140°-150° | 449.7   | 3.8       |
| 150°-160° | 323.3   | 2.7       |
| 160°-170° | 197.7   | 1.7       |
| 170°-180° | 66.6    | 0.6       |
| 0°-30°    | 2164.6  | 18.3      |
| 0°-40°    | 3488.6  | 29.5      |
| 0°-60°    | 5944.9  | 50.2      |
| 0°-90°    | 7302.1  | 61.7      |
| 90°-120°  | 2164.4  | 18.3      |
| 90°-150°  | 3948.2  | 33.4      |
| 90°-180°  | 4536.0  | 38.3      |
| 0°-180°   | 11838.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2869 | 2869  | 2869 | 2869  | 2869 |      |
| 5°   | 2877 | 2845  | 2854 | 2846  | 2842 | 272  |
| 15°  | 2738 | 2703  | 2708 | 2702  | 2697 | 772  |
| 25°  | 2503 | 2461  | 2457 | 2442  | 2450 | 1151 |
| 35°  | 2151 | 2122  | 2121 | 2101  | 2108 | 1345 |
| 45°  | 1729 | 1714  | 1706 | 1701  | 1699 | 1334 |
| 55°  | 1282 | 1279  | 1282 | 1264  | 1262 | 1144 |
| 65°  | 812  | 836   | 852  | 818   | 791  | 804  |
| 75°  | 374  | 409   | 430  | 401   | 364  | 401  |
| 85°  | 63   | 83    | 94   | 88    | 83   | 83   |
| 90°  | 2    | 6     | 10   | 13    | 13   | 5    |
| 95°  | 49   | 179   | 581  | 248   | 158  | 52   |
| 105° | 162  | 248   | 996  | 1516  | 1415 | 170  |
| 115° | 286  | 348   | 798  | 1590  | 1804 | 282  |
| 125° | 394  | 449   | 724  | 1226  | 1436 | 352  |
| 135° | 476  | 528   | 704  | 991   | 1121 | 367  |
| 145° | 550  | 587   | 693  | 844   | 910  | 345  |
| 155° | 622  | 642   | 689  | 759   | 781  | 286  |
| 165° | 673  | 681   | 692  | 720   | 724  | 190  |
| 175° | 696  | 698   | 693  | 702   | 701  | 66   |
| 180° | 696  | 696   | 696  | 696   | 696  |      |

TEST NUMBER: P564795

CATALOG NUMBER: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2869.3 | 2869.3 | 2869.3 | 2869.3 | 2869.3 |
| 2.5°   | 2885.5 | 2861.8 | 2869.3 | 2863.0 | 2849.1 |
| 5°     | 2876.9 | 2844.8 | 2854.2 | 2846.5 | 2841.5 |
| 7.5°   | 2847.6 | 2817.9 | 2824.8 | 2816.7 | 2813.7 |
| 10°    | 2821.3 | 2791.6 | 2798.6 | 2788.3 | 2783.4 |
| 12.5°  | 2791.0 | 2759.3 | 2766.2 | 2756.0 | 2753.1 |
| 15°    | 2737.9 | 2703.3 | 2707.5 | 2702.4 | 2697.4 |
| 17.5°  | 2676.2 | 2641.1 | 2641.8 | 2633.7 | 2632.7 |
| 20°    | 2631.7 | 2594.6 | 2591.3 | 2581.3 | 2586.2 |
| 22.5°  | 2583.2 | 2544.1 | 2540.7 | 2526.7 | 2533.6 |
| 25°    | 2502.8 | 2460.8 | 2457.3 | 2442.3 | 2449.7 |
| 27.5°  | 2409.7 | 2368.2 | 2368.3 | 2347.2 | 2355.1 |
| 30°    | 2341.0 | 2301.4 | 2305.6 | 2280.5 | 2290.4 |
| 32.5°  | 2268.2 | 2232.6 | 2234.8 | 2209.7 | 2219.6 |
| 35°    | 2151.4 | 2121.7 | 2121.0 | 2101.0 | 2108.4 |
| 37.5°  | 2032.1 | 2005.8 | 2001.7 | 1990.1 | 1992.1 |
| 40°    | 1949.1 | 1926.9 | 1918.8 | 1911.2 | 1911.2 |
| 42.5°  | 1862.2 | 1841.9 | 1833.9 | 1828.2 | 1826.3 |
| 45°    | 1729.2 | 1714.4 | 1706.4 | 1701.3 | 1698.9 |
| 47.5°  | 1597.7 | 1583.9 | 1577.0 | 1573.4 | 1570.9 |
| 50°    | 1506.7 | 1496.8 | 1494.1 | 1486.4 | 1484.0 |
| 52.5°  | 1415.7 | 1409.8 | 1407.1 | 1397.5 | 1395.0 |
| 55°    | 1281.7 | 1279.3 | 1281.7 | 1264.0 | 1261.5 |
| 57.5°  | 1142.2 | 1146.1 | 1154.3 | 1130.4 | 1124.5 |
| 60°    | 1049.1 | 1059.0 | 1069.4 | 1041.3 | 1031.4 |
| 62.5°  | 954.1  | 969.9  | 984.4  | 952.3  | 938.4  |
| 65°    | 811.5  | 836.2  | 852.0  | 818.5  | 791.3  |
| 67.5°  | 674.0  | 704.6  | 723.5  | 687.4  | 656.8  |
| 70°    | 578.9  | 613.5  | 634.5  | 598.4  | 563.8  |
| 72.5°  | 496.0  | 534.6  | 551.6  | 517.5  | 482.9  |
| 75°    | 374.2  | 408.8  | 429.8  | 401.1  | 364.0  |
| 77.5°  | 265.4  | 298.1  | 315.5  | 290.5  | 259.9  |
| 80°    | 194.7  | 229.3  | 242.7  | 221.9  | 197.2  |
| 82.5°  | 138.0  | 166.7  | 176.0  | 163.4  | 146.6  |
| 85°    | 63.2   | 83.0   | 93.5   | 88.4   | 83.4   |
| 87.5°  | 16.5   | 31.2   | 40.5   | 41.1   | 43.1   |
| 90°    | 1.5    | 5.8    | 10.4   | 13.3   | 13.3   |
| 92.5°  | 20.4   | 87.4   | 151.4  | 58.1   | 47.7   |
| 95°    | 48.9   | 179.3  | 580.7  | 248.3  | 158.5  |
| 97.5°  | 79.7   | 198.8  | 886.2  | 682.8  | 481.8  |
| 100°   | 102.2  | 210.9  | 982.2  | 991.4  | 808.8  |
| 102.5° | 123.5  | 225.2  | 1007.1 | 1229.9 | 1062.5 |
| 105°   | 161.5  | 248.4  | 995.5  | 1516.1 | 1414.7 |
| 107.5° | 197.6  | 277.0  | 938.9  | 1656.3 | 1686.4 |
| 110°   | 223.7  | 296.1  | 896.3  | 1691.2 | 1795.5 |



TEST NUMBER: P564795

CATALOG NUMBER: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 247.4 | 317.5 | 853.6 | 1668.7 | 1827.5 |
| 115°   | 285.9 | 348.2 | 798.5 | 1590.0 | 1804.4 |
| 117.5° | 322.7 | 380.0 | 763.5 | 1479.5 | 1722.0 |
| 120°   | 345.2 | 400.2 | 748.1 | 1396.7 | 1647.3 |
| 122.5° | 365.3 | 420.4 | 737.4 | 1324.2 | 1562.0 |
| 125°   | 394.1 | 449.1 | 724.4 | 1225.5 | 1435.5 |
| 127.5° | 421.3 | 473.7 | 715.8 | 1143.1 | 1327.3 |
| 130°   | 435.5 | 489.1 | 711.1 | 1094.1 | 1262.2 |
| 132.5° | 452.1 | 505.7 | 707.5 | 1051.1 | 1202.9 |
| 135°   | 475.5 | 527.7 | 703.7 | 991.1  | 1121.4 |
| 137.5° | 497.5 | 545.8 | 700.4 | 942.5  | 1050.0 |
| 140°   | 514.0 | 559.0 | 699.2 | 910.3  | 1007.4 |
| 142.5° | 528.3 | 569.7 | 696.9 | 881.5  | 964.7  |
| 145°   | 549.6 | 587.3 | 693.3 | 844.4  | 909.6  |
| 147.5° | 572.4 | 604.9 | 691.5 | 811.5  | 863.7  |
| 150°   | 586.6 | 615.6 | 690.3 | 793.5  | 834.0  |
| 152.5° | 599.7 | 626.3 | 689.2 | 777.9  | 811.5  |
| 155°   | 622.2 | 642.5 | 688.9 | 759.0  | 780.7  |
| 157.5° | 638.5 | 655.0 | 688.9 | 743.4  | 758.5  |
| 160°   | 650.3 | 663.4 | 688.9 | 735.0  | 746.6  |
| 162.5° | 659.8 | 670.5 | 690.0 | 727.9  | 737.1  |
| 165°   | 672.6 | 681.2 | 691.8 | 720.1  | 724.4  |
| 167.5° | 681.4 | 688.1 | 693.3 | 713.5  | 714.6  |
| 170°   | 687.4 | 691.7 | 693.3 | 711.1  | 711.1  |
| 172.5° | 692.1 | 694.1 | 693.3 | 707.5  | 706.3  |
| 175°   | 696.3 | 697.7 | 693.3 | 702.2  | 700.7  |
| 177.5° | 697.4 | 697.4 | 692.7 | 699.8  | 697.4  |
| 180°   | 696.3 | 696.3 | 696.3 | 696.3  | 696.3  |

(END OF REPORT)