

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: P563009

Luminaire Tested: **SQ4-PC3-125U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563009
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-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

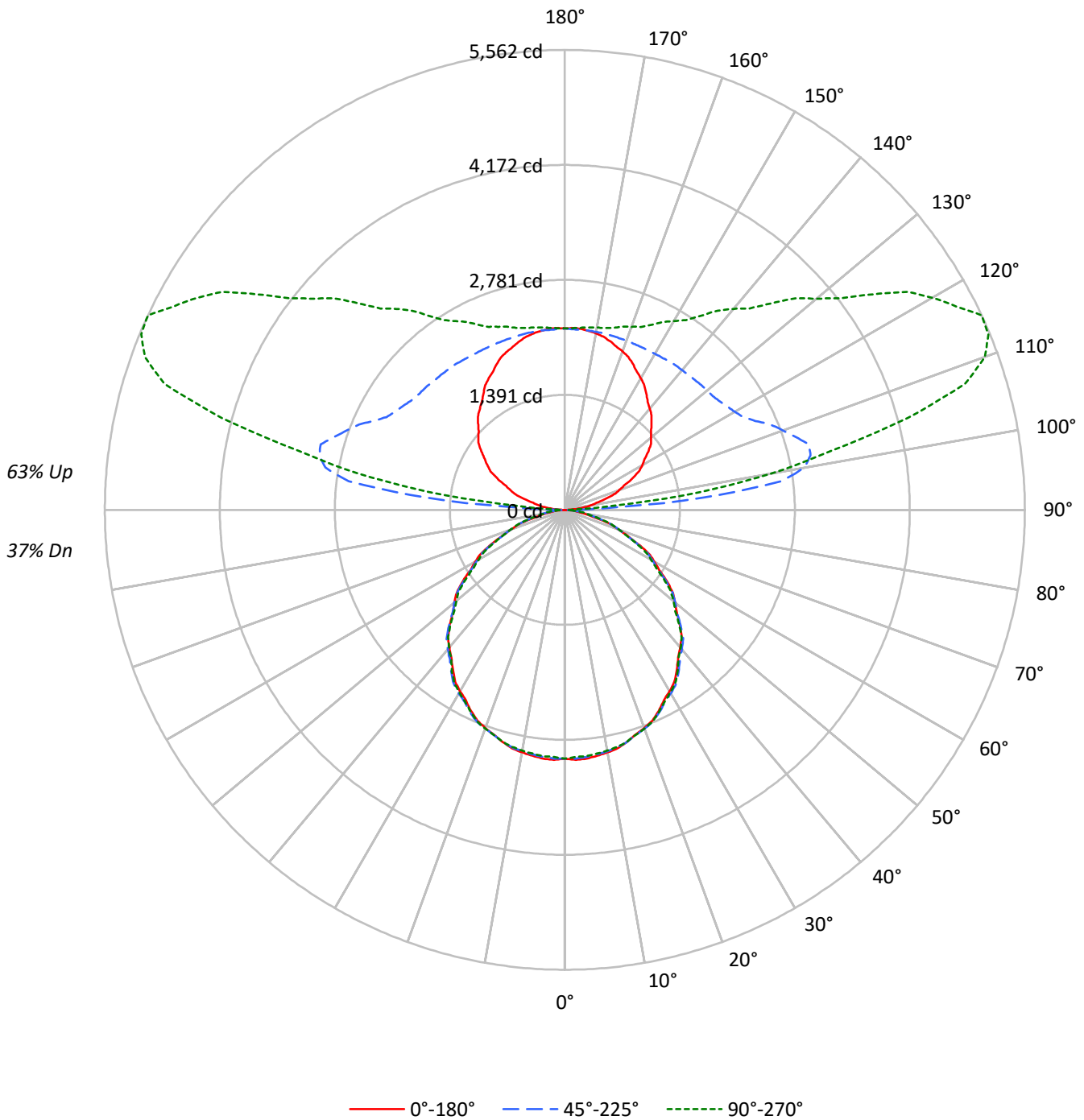
Lumens per Lamp: N/A
Luminaire Lumens: 22375.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 37 |
| 1 | 95 | 91 | 87 | 83 | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |
| 2 | 86 | 79 | 73 | 68 | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 33 | 31 | 26 |
| 3 | 79 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 27 | 22 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 | 16 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 31 | 27 | 29 | 25 | 22 | 22 | 19 | 17 | 14 |
| 7 | 56 | 44 | 36 | 31 | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 17 | 15 | 13 |
| 8 | 52 | 40 | 32 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 11 |
| 9 | 48 | 36 | 29 | 24 | 44 | 33 | 27 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 21 | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9255 | 9255 | 9255 |
| 5° | 9325 | 9265 | 9231 |
| 10° | 9302 | 9259 | 9233 |
| 15° | 9254 | 9254 | 9245 |
| 20° | 9193 | 9220 | 9220 |
| 25° | 9106 | 9172 | 9144 |
| 30° | 8995 | 9104 | 9064 |
| 35° | 8861 | 8997 | 8934 |
| 40° | 8715 | 8838 | 8748 |
| 45° | 8556 | 8617 | 8484 |
| 50° | 8333 | 8333 | 8199 |
| 55° | 8068 | 7963 | 7844 |
| 60° | 7679 | 7524 | 7404 |
| 65° | 7097 | 6955 | 6894 |
| 70° | 6214 | 6264 | 6239 |
| 75° | 5000 | 5530 | 5562 |
| 80° | 3553 | 4688 | 4738 |
| 85° | 2163 | 3934 | 3934 |



TEST NUMBER: P563009

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.8 | 1.3 |
| 10°-20° | 817.3 | 3.7 |
| 20°-30° | 1237.7 | 5.5 |
| 30°-40° | 1483.9 | 6.6 |
| 40°-50° | 1513.1 | 6.8 |
| 50°-60° | 1320.8 | 5.9 |
| 60°-70° | 945.6 | 4.2 |
| 70°-80° | 487.0 | 2.2 |
| 80°-90° | 128.3 | 0.6 |
| 90°-100° | 1025.9 | 4.6 |
| 100°-110° | 2763.4 | 12.4 |
| 110°-120° | 2900.1 | 13.0 |
| 120°-130° | 2353.3 | 10.5 |
| 130°-140° | 1845.6 | 8.2 |
| 140°-150° | 1417.0 | 6.3 |
| 150°-160° | 1018.8 | 4.6 |
| 160°-170° | 622.4 | 2.8 |
| 170°-180° | 209.9 | 0.9 |
| 0°-30° | 2339.9 | 10.5 |
| 0°-40° | 3823.8 | 17.1 |
| 0°-60° | 6657.7 | 29.8 |
| 0°-90° | 8218.6 | 36.7 |
| 90°-120° | 6689.3 | 29.9 |
| 90°-150° | 12305.3 | 55.0 |
| 90°-180° | 14156.0 | 63.3 |
| 0°-180° | 22375.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3010 | 3010 | 3010 | 3010 | 3010 | |
| 5° | 3021 | 2991 | 3001 | 2993 | 2990 | 287 |
| 15° | 2906 | 2882 | 2906 | 2906 | 2904 | 819 |
| 25° | 2683 | 2664 | 2703 | 2695 | 2695 | 1235 |
| 35° | 2360 | 2355 | 2396 | 2380 | 2380 | 1476 |
| 45° | 1967 | 1962 | 1981 | 1956 | 1951 | 1514 |
| 55° | 1505 | 1486 | 1485 | 1463 | 1463 | 1341 |
| 65° | 975 | 954 | 956 | 947 | 947 | 965 |
| 75° | 421 | 440 | 465 | 468 | 468 | 455 |
| 85° | 61 | 94 | 112 | 114 | 112 | 83 |
| 90° | 6 | 16 | 34 | 36 | 36 | 13 |
| 95° | 156 | 558 | 1682 | 860 | 595 | 163 |
| 105° | 511 | 795 | 3056 | 4572 | 4291 | 537 |
| 115° | 902 | 1104 | 2545 | 4917 | 5562 | 888 |
| 125° | 1232 | 1415 | 2285 | 3862 | 4545 | 1100 |
| 135° | 1483 | 1655 | 2221 | 3116 | 3528 | 1145 |
| 145° | 1715 | 1849 | 2193 | 2664 | 2861 | 1076 |
| 155° | 1947 | 2018 | 2173 | 2390 | 2467 | 896 |
| 165° | 2112 | 2136 | 2182 | 2269 | 2280 | 596 |
| 175° | 2196 | 2193 | 2184 | 2215 | 2210 | 209 |
| 180° | 2193 | 2193 | 2193 | 2193 | 2193 | |

TEST NUMBER: P563009

CATALOG NUMBER: SQ4-PC3-125U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3009.5 | 3009.5 | 3009.5 | 3009.5 | 3009.5 |
| 2.5° | 3027.3 | 3001.1 | 3009.5 | 3002.5 | 2991.6 |
| 5° | 3020.6 | 2990.6 | 3001.1 | 2992.7 | 2990.0 |
| 7.5° | 2998.9 | 2968.9 | 2982.7 | 2977.1 | 2974.4 |
| 10° | 2978.8 | 2948.8 | 2964.9 | 2959.2 | 2956.5 |
| 12.5° | 2952.1 | 2924.3 | 2942.6 | 2937.0 | 2936.5 |
| 15° | 2906.4 | 2881.8 | 2906.4 | 2906.3 | 2903.6 |
| 17.5° | 2849.0 | 2826.6 | 2852.9 | 2854.5 | 2852.9 |
| 20° | 2808.8 | 2784.3 | 2817.2 | 2814.5 | 2817.2 |
| 22.5° | 2759.8 | 2739.6 | 2774.8 | 2767.7 | 2770.4 |
| 25° | 2683.4 | 2664.4 | 2702.9 | 2694.6 | 2694.6 |
| 27.5° | 2593.2 | 2579.5 | 2621.6 | 2612.7 | 2612.7 |
| 30° | 2533.0 | 2519.3 | 2563.6 | 2552.5 | 2552.5 |
| 32.5° | 2466.1 | 2456.8 | 2499.0 | 2485.6 | 2485.6 |
| 35° | 2360.2 | 2354.8 | 2396.4 | 2379.7 | 2379.7 |
| 37.5° | 2251.0 | 2246.1 | 2283.9 | 2263.6 | 2257.1 |
| 40° | 2170.7 | 2168.0 | 2201.4 | 2179.1 | 2179.1 |
| 42.5° | 2090.5 | 2087.7 | 2116.7 | 2089.9 | 2089.9 |
| 45° | 1967.3 | 1961.9 | 1981.2 | 1956.0 | 1950.6 |
| 47.5° | 1833.0 | 1827.5 | 1839.7 | 1812.3 | 1809.6 |
| 50° | 1741.6 | 1736.1 | 1741.6 | 1716.5 | 1713.7 |
| 52.5° | 1648.0 | 1638.2 | 1639.0 | 1614.0 | 1613.4 |
| 55° | 1504.7 | 1485.7 | 1485.2 | 1462.9 | 1462.9 |
| 57.5° | 1353.1 | 1328.1 | 1330.3 | 1311.3 | 1308.6 |
| 60° | 1248.4 | 1221.1 | 1223.3 | 1206.5 | 1203.8 |
| 62.5° | 1145.8 | 1114.2 | 1120.7 | 1101.8 | 1101.2 |
| 65° | 975.3 | 953.5 | 955.8 | 947.4 | 947.4 |
| 67.5° | 811.4 | 791.3 | 805.9 | 799.2 | 798.6 |
| 70° | 691.1 | 677.4 | 696.6 | 696.6 | 693.8 |
| 72.5° | 579.6 | 579.1 | 603.0 | 603.0 | 604.7 |
| 75° | 420.8 | 439.8 | 465.4 | 468.1 | 468.1 |
| 77.5° | 280.9 | 314.7 | 342.7 | 343.8 | 343.3 |
| 80° | 200.6 | 238.8 | 264.7 | 270.2 | 267.5 |
| 82.5° | 136.0 | 176.3 | 197.8 | 203.4 | 200.6 |
| 85° | 61.3 | 94.0 | 111.5 | 114.2 | 111.5 |
| 87.5° | 19.0 | 40.8 | 51.3 | 51.7 | 47.4 |
| 90° | 5.6 | 16.5 | 33.5 | 36.3 | 36.3 |
| 92.5° | 68.2 | 240.8 | 476.0 | 229.2 | 159.2 |
| 95° | 156.4 | 558.0 | 1681.7 | 860.0 | 595.0 |
| 97.5° | 249.7 | 638.7 | 2637.6 | 2203.5 | 1661.6 |
| 100° | 321.3 | 670.9 | 2941.6 | 3077.7 | 2553.3 |
| 102.5° | 390.5 | 716.1 | 3042.1 | 3732.4 | 3301.9 |
| 105° | 511.2 | 795.3 | 3056.1 | 4572.2 | 4290.8 |
| 107.5° | 625.2 | 878.7 | 2925.9 | 5003.7 | 5076.4 |
| 110° | 701.2 | 941.5 | 2807.5 | 5137.7 | 5402.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 781.6 | 1004.5 | 2693.5 | 5108.0 | 5543.4 |
| 115° | 902.3 | 1104.4 | 2544.9 | 4917.3 | 5561.9 |
| 117.5° | 1012.4 | 1201.9 | 2429.8 | 4612.7 | 5330.6 |
| 120° | 1083.9 | 1266.9 | 2371.7 | 4394.2 | 5131.7 |
| 122.5° | 1146.5 | 1327.3 | 2329.2 | 4170.7 | 4906.0 |
| 125° | 1231.9 | 1414.9 | 2285.1 | 3862.2 | 4545.0 |
| 127.5° | 1314.1 | 1494.3 | 2257.2 | 3590.1 | 4199.8 |
| 130° | 1363.2 | 1543.5 | 2246.0 | 3434.2 | 3969.6 |
| 132.5° | 1412.4 | 1590.5 | 2234.8 | 3296.9 | 3788.6 |
| 135° | 1483.4 | 1655.4 | 2220.8 | 3115.8 | 3528.2 |
| 137.5° | 1551.0 | 1715.9 | 2213.6 | 2962.1 | 3300.8 |
| 140° | 1597.9 | 1756.3 | 2206.9 | 2867.5 | 3173.4 |
| 142.5° | 1647.1 | 1794.5 | 2202.4 | 2779.3 | 3037.1 |
| 145° | 1715.2 | 1849.1 | 2192.9 | 2663.9 | 2860.6 |
| 147.5° | 1789.0 | 1905.3 | 2183.4 | 2566.8 | 2721.4 |
| 150° | 1838.1 | 1939.2 | 2178.9 | 2505.9 | 2634.3 |
| 152.5° | 1882.8 | 1970.8 | 2176.7 | 2456.2 | 2560.5 |
| 155° | 1947.1 | 2018.1 | 2173.3 | 2390.2 | 2466.7 |
| 157.5° | 2003.5 | 2058.7 | 2173.9 | 2343.8 | 2395.2 |
| 160° | 2039.3 | 2085.7 | 2176.1 | 2316.7 | 2354.9 |
| 162.5° | 2070.5 | 2108.2 | 2178.4 | 2294.1 | 2321.4 |
| 165° | 2111.9 | 2136.5 | 2181.7 | 2268.6 | 2279.5 |
| 167.5° | 2145.4 | 2159.6 | 2184.5 | 2248.9 | 2253.2 |
| 170° | 2167.8 | 2173.2 | 2184.5 | 2237.6 | 2237.6 |
| 172.5° | 2181.2 | 2182.3 | 2186.8 | 2226.4 | 2226.4 |
| 175° | 2195.7 | 2193.0 | 2184.5 | 2215.1 | 2209.7 |
| 177.5° | 2201.8 | 2197.5 | 2186.2 | 2204.0 | 2199.6 |
| 180° | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 |

(END OF REPORT)