

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: P562083

Luminaire Tested: **SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562083
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

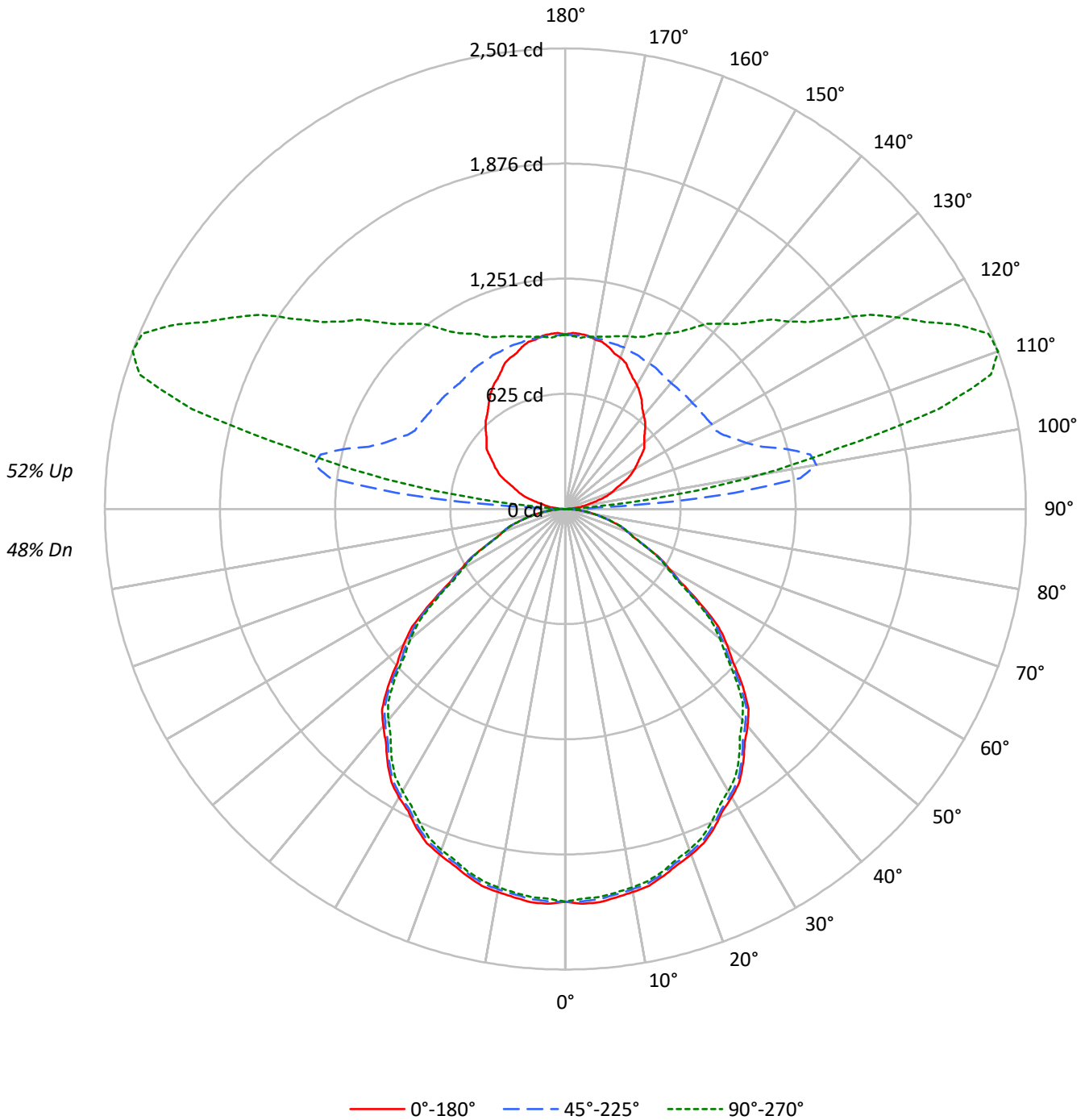
Lumens per Lamp: N/A
Luminaire Lumens: 11213.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 96.6
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: P562083
CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562083

CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)

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 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 48 | | | | |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 | | | | |
| 2 | 89 | 82 | 76 | 71 | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 39 | 34 | | | | |
| 3 | 81 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 56 | 52 | 48 | 47 | 43 | 41 | 38 | 36 | 34 | 29 | | | | |
| 4 | 75 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 | 25 | | | | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 41 | 45 | 40 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 22 | | | | |
| 6 | 63 | 51 | 43 | 38 | 58 | 48 | 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 | 22 | 20 | 17 | | | | |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 16 | | | | |
| 9 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 25 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 | | | | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 13 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19674 | 19674 | 19674 |
| 5° | 19851 | 19698 | 19595 |
| 10° | 19788 | 19650 | 19547 |
| 15° | 19701 | 19578 | 19473 |
| 20° | 19602 | 19476 | 19331 |
| 25° | 19464 | 19333 | 19109 |
| 30° | 19254 | 19117 | 18843 |
| 35° | 18969 | 18804 | 18536 |
| 40° | 18537 | 18338 | 18007 |
| 45° | 17782 | 17470 | 17111 |
| 50° | 16450 | 16054 | 15739 |
| 55° | 14358 | 14033 | 13739 |
| 60° | 12099 | 11998 | 11760 |
| 65° | 10466 | 10505 | 10424 |
| 70° | 9611 | 9663 | 9663 |
| 75° | 9233 | 9233 | 9297 |
| 80° | 8687 | 8783 | 8687 |
| 85° | 6997 | 7781 | 7781 |



TEST NUMBER: P562083

CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 201.7 | 1.8 |
| 10°-20° | 576.9 | 5.1 |
| 20°-30° | 870.2 | 7.8 |
| 30°-40° | 1036.8 | 9.2 |
| 40°-50° | 1022.2 | 9.1 |
| 50°-60° | 781.2 | 7.0 |
| 60°-70° | 483.5 | 4.3 |
| 70°-80° | 274.6 | 2.4 |
| 80°-90° | 83.5 | 0.7 |
| 90°-100° | 431.5 | 3.8 |
| 100°-110° | 1227.8 | 10.9 |
| 110°-120° | 1176.4 | 10.5 |
| 120°-130° | 931.1 | 8.3 |
| 130°-140° | 747.3 | 6.7 |
| 140°-150° | 585.1 | 5.2 |
| 150°-160° | 428.1 | 3.8 |
| 160°-170° | 265.2 | 2.4 |
| 170°-180° | 90.0 | 0.8 |
| 0°-30° | 1648.8 | 14.7 |
| 0°-40° | 2685.6 | 24.0 |
| 0°-60° | 4489.1 | 40.0 |
| 0°-90° | 5330.7 | 47.5 |
| 90°-120° | 2835.8 | 25.3 |
| 90°-150° | 5099.2 | 45.5 |
| 90°-180° | 5882.0 | 52.5 |
| 0°-180° | 11213.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2132 | 2132 | 2132 | 2132 | 2132 | |
| 5° | 2143 | 2120 | 2127 | 2119 | 2116 | 203 |
| 15° | 2063 | 2041 | 2050 | 2042 | 2039 | 582 |
| 25° | 1912 | 1889 | 1899 | 1879 | 1877 | 880 |
| 35° | 1684 | 1664 | 1670 | 1648 | 1646 | 1051 |
| 45° | 1363 | 1345 | 1339 | 1315 | 1311 | 1044 |
| 55° | 893 | 878 | 872 | 858 | 854 | 800 |
| 65° | 479 | 476 | 481 | 478 | 478 | 486 |
| 75° | 259 | 259 | 259 | 261 | 261 | 274 |
| 85° | 66 | 70 | 74 | 74 | 74 | 77 |
| 90° | 0 | 0 | 0 | 0 | 0 | 5 |
| 95° | 47 | 186 | 835 | 289 | 178 | 54 |
| 105° | 191 | 289 | 1251 | 2210 | 2101 | 202 |
| 115° | 355 | 429 | 949 | 2010 | 2360 | 349 |
| 125° | 500 | 555 | 906 | 1503 | 1797 | 448 |
| 135° | 612 | 663 | 895 | 1269 | 1435 | 472 |
| 145° | 722 | 759 | 902 | 1099 | 1197 | 451 |
| 155° | 825 | 844 | 924 | 993 | 1033 | 381 |
| 165° | 911 | 914 | 934 | 954 | 969 | 256 |
| 175° | 954 | 949 | 945 | 940 | 933 | 90 |
| 180° | 947 | 947 | 947 | 947 | 947 | |



TEST NUMBER: P562083

CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2132.4 | 2132.4 | 2132.4 | 2132.4 | 2132.4 |
| 2.5° | 2145.6 | 2126.9 | 2132.4 | 2127.7 | 2117.7 |
| 5° | 2143.4 | 2120.1 | 2126.9 | 2119.4 | 2115.8 |
| 7.5° | 2126.9 | 2103.9 | 2110.7 | 2103.3 | 2101.2 |
| 10° | 2112.2 | 2090.6 | 2097.5 | 2090.1 | 2086.5 |
| 12.5° | 2096.0 | 2073.0 | 2081.3 | 2072.4 | 2068.8 |
| 15° | 2062.6 | 2041.0 | 2049.7 | 2042.3 | 2038.7 |
| 17.5° | 2025.9 | 2002.9 | 2011.5 | 2003.0 | 1998.3 |
| 20° | 1996.5 | 1974.9 | 1983.6 | 1970.7 | 1968.9 |
| 22.5° | 1964.1 | 1942.6 | 1951.3 | 1934.0 | 1933.7 |
| 25° | 1912.0 | 1888.6 | 1899.1 | 1878.9 | 1877.1 |
| 27.5° | 1849.9 | 1828.3 | 1837.0 | 1816.4 | 1814.3 |
| 30° | 1807.3 | 1785.7 | 1794.4 | 1772.3 | 1768.7 |
| 32.5° | 1758.8 | 1738.7 | 1745.9 | 1723.9 | 1721.7 |
| 35° | 1684.2 | 1664.5 | 1669.5 | 1647.5 | 1645.7 |
| 37.5° | 1599.4 | 1581.4 | 1584.3 | 1560.0 | 1558.2 |
| 40° | 1539.1 | 1521.2 | 1522.6 | 1496.8 | 1495.1 |
| 42.5° | 1473.0 | 1455.1 | 1453.5 | 1427.8 | 1426.0 |
| 45° | 1362.8 | 1344.9 | 1338.9 | 1315.0 | 1311.4 |
| 47.5° | 1237.2 | 1219.2 | 1208.2 | 1188.6 | 1186.1 |
| 50° | 1146.1 | 1128.1 | 1118.5 | 1101.9 | 1096.5 |
| 52.5° | 1047.6 | 1029.7 | 1021.6 | 1006.4 | 1001.0 |
| 55° | 892.6 | 878.3 | 872.4 | 857.6 | 854.1 |
| 57.5° | 745.3 | 735.6 | 733.9 | 719.6 | 718.1 |
| 60° | 655.7 | 650.3 | 650.2 | 637.3 | 637.3 |
| 62.5° | 579.3 | 575.3 | 578.2 | 569.7 | 568.3 |
| 65° | 479.4 | 475.8 | 481.2 | 477.5 | 477.5 |
| 67.5° | 400.4 | 400.4 | 403.7 | 402.2 | 402.2 |
| 70° | 356.3 | 356.3 | 358.2 | 358.2 | 358.2 |
| 72.5° | 316.6 | 315.2 | 319.9 | 319.9 | 318.5 |
| 75° | 259.0 | 259.0 | 259.0 | 260.8 | 260.8 |
| 77.5° | 201.7 | 202.0 | 203.5 | 203.1 | 201.7 |
| 80° | 163.5 | 165.3 | 165.3 | 163.5 | 163.5 |
| 82.5° | 125.3 | 127.1 | 127.1 | 126.7 | 125.3 |
| 85° | 66.1 | 69.7 | 73.5 | 73.5 | 73.5 |
| 87.5° | 19.1 | 24.8 | 29.4 | 29.4 | 27.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 14.4 | 76.4 | 177.2 | 51.6 | 38.9 |
| 95° | 46.8 | 185.9 | 835.4 | 289.1 | 178.2 |
| 97.5° | 86.1 | 217.7 | 1286.6 | 920.6 | 630.9 |
| 100° | 113.4 | 236.6 | 1384.5 | 1402.4 | 1080.2 |
| 102.5° | 143.7 | 257.0 | 1362.9 | 1795.1 | 1513.8 |
| 105° | 190.8 | 289.4 | 1251.3 | 2210.2 | 2101.0 |
| 107.5° | 238.7 | 327.1 | 1120.9 | 2327.2 | 2424.4 |
| 110° | 271.9 | 354.6 | 1046.0 | 2282.4 | 2500.7 |

TEST NUMBER: P562083

CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 303.5 | 382.1 | 995.6 | 2176.5 | 2487.8 |
| 115° | 354.7 | 428.6 | 948.8 | 2010.0 | 2360.3 |
| 117.5° | 399.7 | 469.0 | 921.1 | 1827.9 | 2199.0 |
| 120° | 435.7 | 493.8 | 918.2 | 1723.8 | 2079.4 |
| 122.5° | 464.5 | 522.6 | 911.0 | 1632.5 | 1962.8 |
| 125° | 500.5 | 555.1 | 905.6 | 1502.8 | 1796.8 |
| 127.5° | 539.8 | 590.8 | 902.7 | 1425.3 | 1667.5 |
| 130° | 559.9 | 611.0 | 898.4 | 1371.3 | 1582.5 |
| 132.5° | 581.5 | 631.2 | 898.4 | 1329.1 | 1523.5 |
| 135° | 612.1 | 663.2 | 894.8 | 1269.4 | 1434.9 |
| 137.5° | 640.9 | 690.6 | 894.4 | 1218.9 | 1361.8 |
| 140° | 662.5 | 713.6 | 893.0 | 1177.0 | 1314.3 |
| 142.5° | 687.0 | 729.6 | 897.3 | 1143.5 | 1266.7 |
| 145° | 722.0 | 758.9 | 902.0 | 1098.7 | 1197.3 |
| 147.5° | 751.8 | 787.8 | 909.9 | 1053.4 | 1138.6 |
| 150° | 777.8 | 802.4 | 912.8 | 1038.4 | 1098.2 |
| 152.5° | 797.9 | 824.0 | 915.7 | 1018.1 | 1073.7 |
| 155° | 824.6 | 843.9 | 923.6 | 992.9 | 1033.4 |
| 157.5° | 857.7 | 869.3 | 925.4 | 981.5 | 1010.4 |
| 160° | 875.0 | 883.8 | 932.6 | 972.8 | 997.4 |
| 162.5° | 885.1 | 895.3 | 934.0 | 965.4 | 984.4 |
| 165° | 911.0 | 914.5 | 934.4 | 954.5 | 968.6 |
| 167.5° | 928.6 | 925.5 | 942.7 | 951.8 | 957.4 |
| 170° | 934.4 | 932.6 | 939.8 | 941.8 | 948.8 |
| 172.5° | 947.4 | 941.4 | 944.1 | 938.8 | 944.5 |
| 175° | 954.2 | 948.9 | 945.2 | 939.6 | 932.6 |
| 177.5° | 957.1 | 948.6 | 944.1 | 938.4 | 939.8 |
| 180° | 947.0 | 947.0 | 947.0 | 947.0 | 947.0 |

(END OF REPORT)