

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522066

Luminaire Tested: **SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522066
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

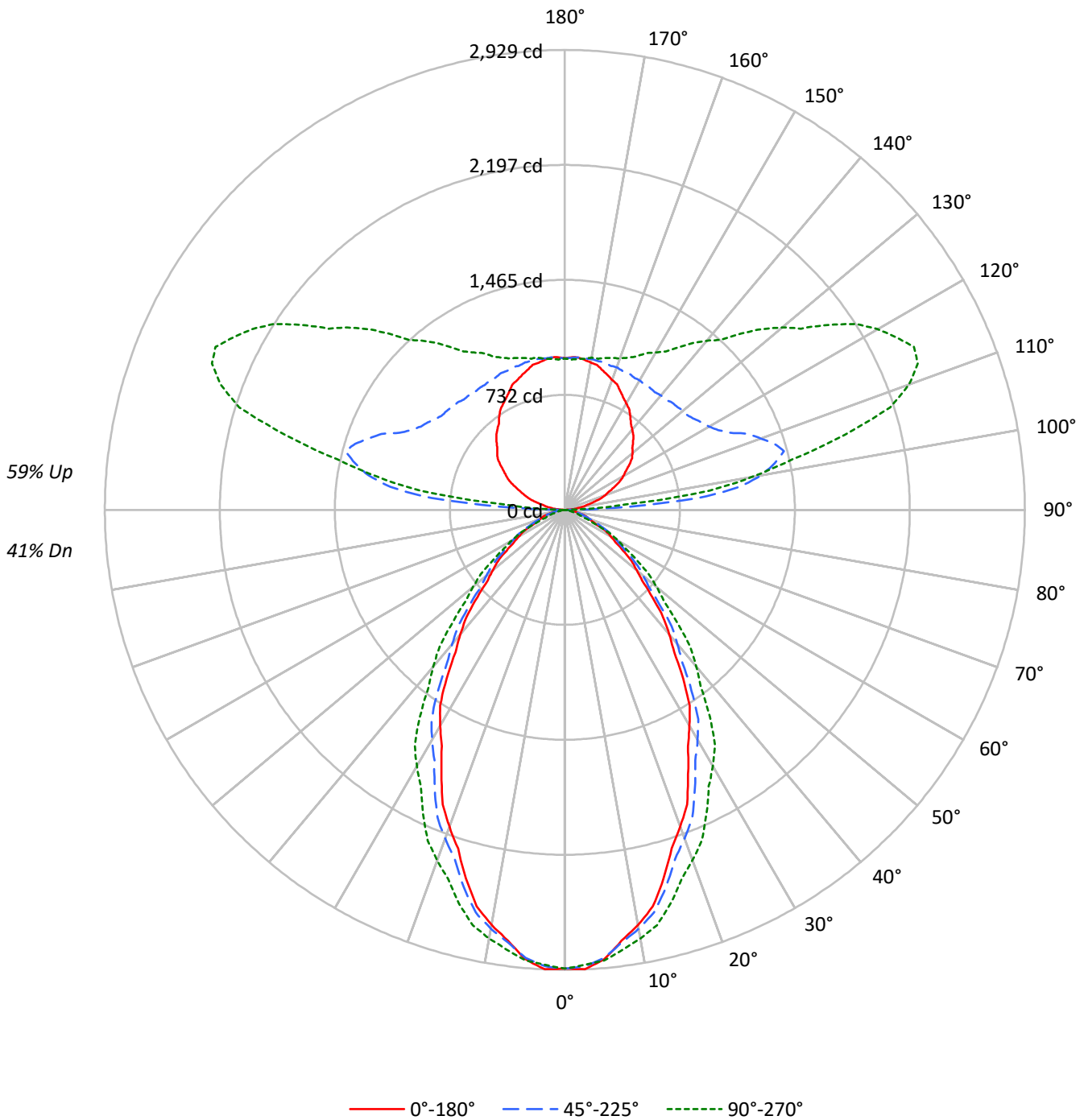
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10502.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.4
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

TEST NUMBER: P522066
CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522066

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 47 | 47 | 47 | 41 | |
| 1 | 97 | 93 | 89 | 86 | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 56 | 55 | 53 | 43 | 43 | 42 | 42 | 42 | 42 | 36 | |
| 2 | 89 | 82 | 76 | 72 | 81 | 75 | 70 | 66 | 62 | 59 | 56 | 50 | 48 | 46 | 39 | 38 | 37 | 37 | 37 | 37 | 32 | |
| 3 | 82 | 73 | 66 | 61 | 74 | 67 | 61 | 57 | 56 | 52 | 48 | 45 | 43 | 40 | 36 | 34 | 32 | 32 | 32 | 32 | 28 | |
| 4 | 75 | 65 | 58 | 52 | 68 | 60 | 54 | 49 | 50 | 46 | 42 | 41 | 38 | 35 | 33 | 31 | 29 | 29 | 29 | 29 | 25 | |
| 5 | 69 | 59 | 51 | 46 | 63 | 54 | 48 | 43 | 45 | 41 | 37 | 37 | 34 | 31 | 30 | 28 | 26 | 26 | 26 | 26 | 22 | |
| 6 | 64 | 53 | 45 | 40 | 59 | 49 | 42 | 38 | 41 | 36 | 33 | 34 | 31 | 28 | 28 | 25 | 23 | 23 | 23 | 23 | 20 | |
| 7 | 60 | 48 | 41 | 35 | 54 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 28 | 25 | 25 | 23 | 21 | 21 | 21 | 21 | 18 | |
| 8 | 55 | 44 | 37 | 32 | 51 | 41 | 34 | 30 | 35 | 30 | 26 | 29 | 25 | 23 | 24 | 21 | 19 | 19 | 19 | 19 | 17 | |
| 9 | 52 | 40 | 33 | 29 | 47 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 22 | 19 | 18 | 18 | 18 | 18 | 15 | |
| 10 | 48 | 37 | 30 | 26 | 44 | 35 | 28 | 24 | 30 | 25 | 22 | 25 | 21 | 19 | 21 | 18 | 16 | 16 | 16 | 16 | 14 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 26954 | 26954 | 26954 |
| 5° | 26617 | 26523 | 26677 |
| 10° | 25148 | 25377 | 25965 |
| 15° | 23215 | 23754 | 24819 |
| 20° | 21082 | 21874 | 23322 |
| 25° | 18909 | 19940 | 21728 |
| 30° | 16907 | 18013 | 20075 |
| 35° | 14785 | 15853 | 18120 |
| 40° | 12444 | 13433 | 15686 |
| 45° | 10270 | 11156 | 13096 |
| 50° | 8575 | 9347 | 10911 |
| 55° | 7279 | 8022 | 9011 |
| 60° | 6220 | 6955 | 7191 |
| 65° | 4953 | 5849 | 4646 |
| 70° | 4392 | 4564 | 2835 |
| 75° | 4067 | 3700 | 1736 |
| 80° | 3746 | 3406 | 1498 |
| 85° | 3387 | 3123 | 1217 |



TEST NUMBER: P522066

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.0 | 2.6 |
| 10°-20° | 697.0 | 6.6 |
| 20°-30° | 902.8 | 8.6 |
| 30°-40° | 884.1 | 8.4 |
| 40°-50° | 676.7 | 6.4 |
| 50°-60° | 450.9 | 4.3 |
| 60°-70° | 246.1 | 2.3 |
| 70°-80° | 102.5 | 1.0 |
| 80°-90° | 29.0 | 0.3 |
| 90°-100° | 497.2 | 4.7 |
| 100°-110° | 1201.7 | 11.4 |
| 110°-120° | 1281.7 | 12.2 |
| 120°-130° | 1038.1 | 9.9 |
| 130°-140° | 803.7 | 7.7 |
| 140°-150° | 613.1 | 5.8 |
| 150°-160° | 443.8 | 4.2 |
| 160°-170° | 273.4 | 2.6 |
| 170°-180° | 92.6 | 0.9 |
| 0°-30° | 1867.8 | 17.8 |
| 0°-40° | 2751.8 | 26.2 |
| 0°-60° | 3879.5 | 36.9 |
| 0°-90° | 4257.1 | 40.5 |
| 90°-120° | 2980.7 | 28.4 |
| 90°-150° | 5435.7 | 51.8 |
| 90°-180° | 6245.0 | 59.5 |
| 0°-180° | 10502.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2922 | 2922 | 2922 | 2922 | 2922 | |
| 5° | 2874 | 2845 | 2864 | 2870 | 2880 | 267 |
| 15° | 2430 | 2422 | 2487 | 2554 | 2598 | 679 |
| 25° | 1858 | 1862 | 1959 | 2044 | 2134 | 854 |
| 35° | 1313 | 1319 | 1408 | 1502 | 1609 | 816 |
| 45° | 787 | 802 | 855 | 920 | 1004 | 614 |
| 55° | 452 | 471 | 499 | 518 | 560 | 410 |
| 65° | 227 | 246 | 268 | 234 | 213 | 236 |
| 75° | 114 | 114 | 104 | 71 | 49 | 122 |
| 85° | 32 | 32 | 30 | 19 | 12 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | 4 |
| 95° | 49 | 249 | 852 | 554 | 388 | 55 |
| 105° | 192 | 332 | 1444 | 1869 | 1845 | 203 |
| 115° | 351 | 449 | 1160 | 2200 | 2454 | 347 |
| 125° | 500 | 576 | 1007 | 1750 | 2055 | 447 |
| 135° | 615 | 687 | 966 | 1380 | 1587 | 475 |
| 145° | 727 | 781 | 948 | 1173 | 1265 | 455 |
| 155° | 834 | 870 | 960 | 1039 | 1077 | 385 |
| 165° | 921 | 935 | 972 | 987 | 1001 | 260 |
| 175° | 974 | 970 | 974 | 966 | 964 | 92 |
| 180° | 964 | 964 | 964 | 964 | 964 | |

TEST NUMBER: P522066

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2921.5 | 2921.5 | 2921.5 | 2921.5 | 2921.5 |
| 2.5° | 2928.6 | 2902.6 | 2909.1 | 2909.0 | 2900.9 |
| 5° | 2874.0 | 2845.2 | 2863.8 | 2870.4 | 2880.4 |
| 7.5° | 2767.4 | 2745.6 | 2779.4 | 2804.5 | 2824.8 |
| 10° | 2684.3 | 2665.5 | 2708.7 | 2745.2 | 2771.5 |
| 12.5° | 2587.9 | 2572.1 | 2625.6 | 2674.6 | 2708.9 |
| 15° | 2430.5 | 2421.7 | 2486.9 | 2554.5 | 2598.4 |
| 17.5° | 2262.0 | 2257.8 | 2332.5 | 2411.5 | 2467.7 |
| 20° | 2147.2 | 2145.9 | 2227.9 | 2310.2 | 2375.4 |
| 22.5° | 2031.3 | 2034.1 | 2120.3 | 2205.8 | 2280.0 |
| 25° | 1857.5 | 1862.5 | 1958.7 | 2044.1 | 2134.4 |
| 27.5° | 1696.7 | 1699.0 | 1798.5 | 1888.6 | 1984.9 |
| 30° | 1587.0 | 1593.3 | 1690.8 | 1784.1 | 1884.4 |
| 32.5° | 1477.3 | 1484.5 | 1580.1 | 1676.5 | 1778.8 |
| 35° | 1312.7 | 1318.9 | 1407.5 | 1502.2 | 1608.8 |
| 37.5° | 1142.9 | 1151.5 | 1230.1 | 1319.7 | 1424.4 |
| 40° | 1033.2 | 1045.7 | 1115.3 | 1199.6 | 1302.4 |
| 42.5° | 927.6 | 943.1 | 1007.6 | 1087.6 | 1180.4 |
| 45° | 787.1 | 802.1 | 855.0 | 919.8 | 1003.7 |
| 47.5° | 666.1 | 683.4 | 724.0 | 779.7 | 851.4 |
| 50° | 597.4 | 613.7 | 651.2 | 692.5 | 760.2 |
| 52.5° | 536.9 | 553.2 | 586.6 | 618.4 | 676.1 |
| 55° | 452.5 | 471.3 | 498.7 | 517.6 | 560.2 |
| 57.5° | 383.3 | 401.3 | 423.0 | 431.6 | 457.4 |
| 60° | 337.1 | 357.2 | 376.9 | 375.9 | 389.7 |
| 62.5° | 295.1 | 312.1 | 331.8 | 318.2 | 318.9 |
| 65° | 226.9 | 245.7 | 267.9 | 234.1 | 212.8 |
| 67.5° | 183.3 | 187.3 | 210.2 | 163.3 | 137.9 |
| 70° | 162.8 | 162.8 | 169.2 | 126.4 | 105.1 |
| 72.5° | 143.3 | 143.3 | 137.4 | 102.8 | 80.5 |
| 75° | 114.1 | 114.1 | 103.8 | 71.3 | 48.7 |
| 77.5° | 87.9 | 86.9 | 79.5 | 53.2 | 35.4 |
| 80° | 70.5 | 70.5 | 64.1 | 42.0 | 28.2 |
| 82.5° | 55.1 | 55.1 | 49.7 | 32.8 | 21.0 |
| 85° | 32.0 | 32.0 | 29.5 | 19.1 | 11.5 |
| 87.5° | 11.3 | 11.3 | 10.3 | 6.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 16.3 | 134.6 | 317.1 | 154.1 | 104.6 |
| 95° | 49.0 | 248.8 | 851.9 | 554.0 | 388.2 |
| 97.5° | 87.0 | 275.6 | 1122.0 | 1080.9 | 927.9 |
| 100° | 116.4 | 292.2 | 1270.7 | 1341.4 | 1215.6 |
| 102.5° | 144.2 | 307.2 | 1368.8 | 1558.3 | 1483.6 |
| 105° | 192.0 | 331.9 | 1444.4 | 1868.8 | 1844.8 |
| 107.5° | 239.0 | 360.9 | 1399.8 | 2117.8 | 2174.1 |
| 110° | 271.7 | 385.6 | 1327.9 | 2225.2 | 2331.0 |



TEST NUMBER: P522066

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 304.4 | 410.3 | 1264.2 | 2251.4 | 2432.4 |
| 115° | 351.4 | 449.3 | 1160.4 | 2199.9 | 2453.6 |
| 117.5° | 398.0 | 490.3 | 1099.5 | 2081.6 | 2378.8 |
| 120° | 429.0 | 514.9 | 1060.3 | 1988.8 | 2300.4 |
| 122.5° | 461.7 | 541.2 | 1035.8 | 1893.9 | 2200.7 |
| 125° | 500.5 | 576.4 | 1007.2 | 1749.6 | 2055.2 |
| 127.5° | 538.9 | 610.4 | 987.2 | 1627.4 | 1895.9 |
| 130° | 561.8 | 631.7 | 980.6 | 1542.3 | 1806.0 |
| 132.5° | 583.1 | 656.2 | 970.8 | 1480.9 | 1704.7 |
| 135° | 614.9 | 686.8 | 966.3 | 1379.6 | 1587.4 |
| 137.5° | 645.2 | 717.5 | 952.0 | 1311.1 | 1467.7 |
| 140° | 668.1 | 734.0 | 952.0 | 1261.7 | 1405.6 |
| 142.5° | 690.9 | 756.9 | 943.9 | 1218.7 | 1340.2 |
| 145° | 727.3 | 781.2 | 947.9 | 1172.7 | 1264.6 |
| 147.5° | 761.2 | 813.5 | 945.5 | 1119.6 | 1195.5 |
| 150° | 782.5 | 828.4 | 952.0 | 1096.4 | 1156.3 |
| 152.5° | 805.3 | 849.7 | 950.4 | 1071.7 | 1125.3 |
| 155° | 833.5 | 869.5 | 960.2 | 1038.7 | 1076.6 |
| 157.5° | 867.4 | 898.2 | 958.2 | 1026.1 | 1048.5 |
| 160° | 880.5 | 906.5 | 966.3 | 1009.6 | 1025.6 |
| 162.5° | 901.8 | 924.5 | 963.1 | 1004.5 | 1014.1 |
| 165° | 921.4 | 935.4 | 972.5 | 987.1 | 1001.1 |
| 167.5° | 945.5 | 954.7 | 970.0 | 985.9 | 986.3 |
| 170° | 952.0 | 958.0 | 976.5 | 974.7 | 984.7 |
| 172.5° | 963.5 | 967.9 | 971.6 | 976.0 | 970.0 |
| 175° | 974.5 | 970.5 | 974.5 | 966.3 | 964.3 |
| 177.5° | 972.5 | 972.5 | 969.2 | 965.7 | 957.7 |
| 180° | 964.3 | 964.3 | 964.3 | 964.3 | 964.3 |

(END OF REPORT)