

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: P522574

Luminaire Tested: **SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

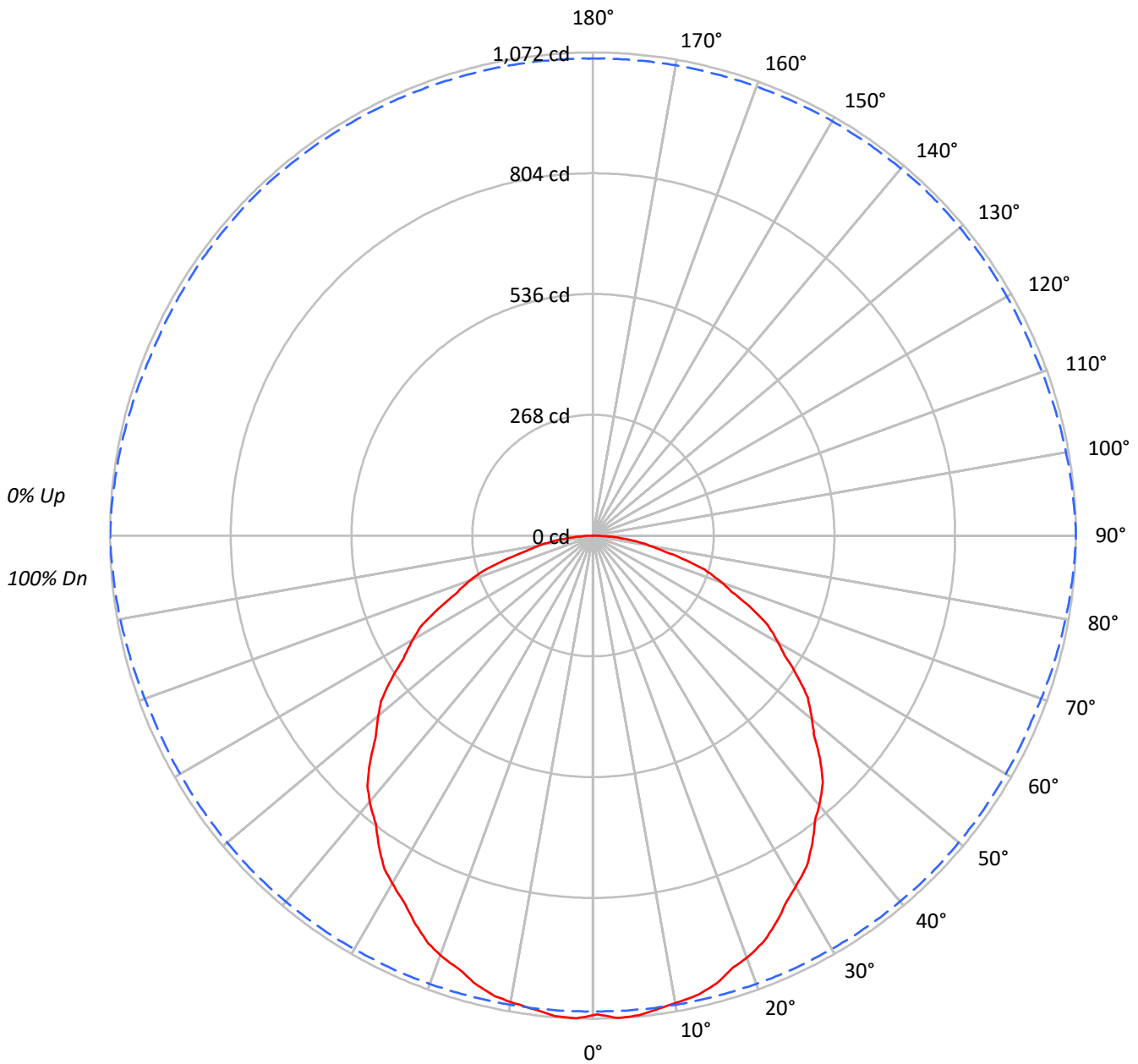
Lumens per Lamp: N/A
Luminaire Lumens: 2963.9 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 31.3
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: P522574
CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522574

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (3500K)

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 94 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 17147 | 17147 | 17147 |
| 5° | 17083 | 17326 | 17180 |
| 10° | 16903 | 17247 | 17198 |
| 15° | 16816 | 17217 | 17083 |
| 20° | 16563 | 17079 | 16993 |
| 25° | 16265 | 16889 | 16853 |
| 30° | 15959 | 16686 | 16593 |
| 35° | 15670 | 16517 | 16340 |
| 40° | 15344 | 16356 | 16145 |
| 45° | 15002 | 16121 | 15892 |
| 50° | 14619 | 15774 | 15573 |
| 55° | 14159 | 15482 | 15144 |
| 60° | 13595 | 15113 | 14725 |
| 65° | 12837 | 14632 | 14136 |
| 70° | 11991 | 13973 | 13454 |
| 75° | 10605 | 12726 | 12227 |
| 80° | 8833 | 11158 | 10786 |
| 85° | 5743 | 8707 | 8336 |



TEST NUMBER: P522574

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.4 | 3.4 |
| 10°-20° | 286.7 | 9.7 |
| 20°-30° | 431.4 | 14.6 |
| 30°-40° | 515.3 | 17.4 |
| 40°-50° | 530.2 | 17.9 |
| 50°-60° | 476.7 | 16.1 |
| 60°-70° | 363.2 | 12.3 |
| 70°-80° | 206.0 | 7.0 |
| 80°-90° | 54.0 | 1.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 818.5 | 27.6 |
| 0°-40° | 1333.8 | 45.0 |
| 0°-60° | 2340.7 | 79.0 |
| 0°-90° | 2963.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2963.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1062 | 1062 | 1062 | 1062 | 1062 | |
| 5° | 1054 | 1055 | 1069 | 1062 | 1060 | 100 |
| 15° | 1006 | 1011 | 1030 | 1025 | 1022 | 283 |
| 25° | 913 | 933 | 948 | 954 | 946 | 420 |
| 35° | 795 | 816 | 838 | 843 | 829 | 497 |
| 45° | 657 | 676 | 706 | 703 | 696 | 506 |
| 55° | 503 | 523 | 550 | 547 | 538 | 449 |
| 65° | 336 | 357 | 383 | 380 | 370 | 333 |
| 75° | 170 | 184 | 204 | 202 | 196 | 181 |
| 85° | 31 | 40 | 47 | 50 | 45 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P522574

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1062.0 | 1062.0 | 1062.0 | 1062.0 | 1062.0 | 1062.0 | 1062.0 | 1062.0 | 1062.0 |
| 2.5° | 1055.6 | 1058.7 | 1060.4 | 1056.7 | 1071.6 | 1059.1 | 1063.6 | 1060.3 | 1058.0 |
| 5° | 1054.0 | 1053.0 | 1055.0 | 1051.4 | 1069.0 | 1055.3 | 1062.0 | 1057.1 | 1060.0 |
| 7.5° | 1043.8 | 1041.8 | 1045.4 | 1045.9 | 1059.2 | 1049.2 | 1053.2 | 1051.9 | 1055.4 |
| 10° | 1031.0 | 1033.0 | 1039.0 | 1040.3 | 1052.0 | 1041.2 | 1046.0 | 1047.0 | 1049.0 |
| 12.5° | 1025.4 | 1021.9 | 1028.6 | 1032.3 | 1044.8 | 1031.7 | 1040.4 | 1039.9 | 1043.4 |
| 15° | 1006.0 | 1005.0 | 1011.0 | 1014.4 | 1030.0 | 1018.3 | 1025.0 | 1024.9 | 1022.0 |
| 17.5° | 981.6 | 981.6 | 989.6 | 991.2 | 1007.6 | 999.0 | 1005.6 | 1002.6 | 1001.8 |
| 20° | 964.0 | 964.0 | 976.0 | 974.4 | 994.0 | 986.2 | 992.0 | 985.1 | 989.0 |
| 22.5° | 944.0 | 944.8 | 959.2 | 956.8 | 975.6 | 970.9 | 977.6 | 967.5 | 972.2 |
| 25° | 913.0 | 915.9 | 933.0 | 931.4 | 948.0 | 943.1 | 954.0 | 942.1 | 946.0 |
| 27.5° | 880.0 | 884.1 | 901.2 | 901.0 | 917.4 | 913.9 | 926.4 | 912.6 | 913.2 |
| 30° | 856.0 | 860.9 | 878.0 | 879.4 | 895.0 | 889.1 | 904.0 | 891.0 | 890.0 |
| 32.5° | 832.8 | 836.9 | 854.0 | 857.0 | 872.6 | 869.1 | 880.8 | 867.8 | 866.0 |
| 35° | 795.0 | 799.9 | 816.0 | 821.4 | 838.0 | 833.1 | 843.0 | 831.0 | 829.0 |
| 37.5° | 756.0 | 759.1 | 776.2 | 780.9 | 800.8 | 796.7 | 803.0 | 791.4 | 791.6 |
| 40° | 728.0 | 731.9 | 749.0 | 754.5 | 776.0 | 771.1 | 775.0 | 765.0 | 766.0 |
| 42.5° | 700.0 | 703.9 | 720.2 | 728.1 | 748.0 | 743.1 | 746.2 | 737.8 | 738.0 |
| 45° | 657.0 | 659.9 | 676.0 | 686.4 | 706.0 | 701.1 | 703.0 | 695.0 | 696.0 |
| 47.5° | 612.4 | 614.6 | 629.2 | 643.8 | 660.0 | 657.8 | 658.2 | 648.3 | 651.2 |
| 50° | 582.0 | 584.9 | 598.0 | 613.3 | 628.0 | 629.0 | 627.0 | 617.1 | 620.0 |
| 52.5° | 550.8 | 553.0 | 568.4 | 581.4 | 596.8 | 598.6 | 595.0 | 585.8 | 588.0 |
| 55° | 503.0 | 505.0 | 523.0 | 536.3 | 550.0 | 551.0 | 547.0 | 540.0 | 538.0 |
| 57.5° | 453.8 | 456.7 | 473.6 | 488.1 | 501.6 | 499.8 | 497.8 | 489.6 | 488.0 |
| 60° | 421.0 | 423.9 | 440.0 | 455.3 | 468.0 | 467.0 | 465.0 | 456.0 | 456.0 |
| 62.5° | 387.4 | 391.1 | 408.0 | 421.7 | 434.4 | 434.2 | 431.4 | 424.8 | 423.2 |
| 65° | 336.0 | 339.9 | 357.0 | 369.3 | 383.0 | 383.0 | 380.0 | 372.0 | 370.0 |
| 67.5° | 286.8 | 290.7 | 304.8 | 317.5 | 331.2 | 330.0 | 327.2 | 322.1 | 319.4 |
| 70° | 254.0 | 257.9 | 268.0 | 282.3 | 296.0 | 294.0 | 292.0 | 287.0 | 285.0 |
| 72.5° | 218.8 | 223.5 | 233.6 | 246.3 | 259.2 | 258.8 | 256.8 | 254.1 | 249.8 |
| 75° | 170.0 | 172.9 | 184.0 | 195.2 | 204.0 | 205.0 | 202.0 | 200.9 | 196.0 |
| 77.5° | 123.8 | 127.5 | 136.6 | 146.3 | 152.8 | 155.9 | 154.2 | 151.7 | 148.0 |
| 80° | 95.0 | 97.9 | 107.0 | 115.1 | 120.0 | 123.9 | 123.0 | 118.9 | 116.0 |
| 82.5° | 67.8 | 70.7 | 78.2 | 85.5 | 89.6 | 93.5 | 92.6 | 90.1 | 85.6 |
| 85° | 31.0 | 33.0 | 40.0 | 45.0 | 47.0 | 51.9 | 50.0 | 47.9 | 45.0 |
| 87.5° | 4.8 | 5.6 | 10.4 | 15.2 | 14.4 | 19.1 | 16.8 | 13.5 | 10.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)