

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: P520355

Luminaire Tested: **SQ4-F-125U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520355
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

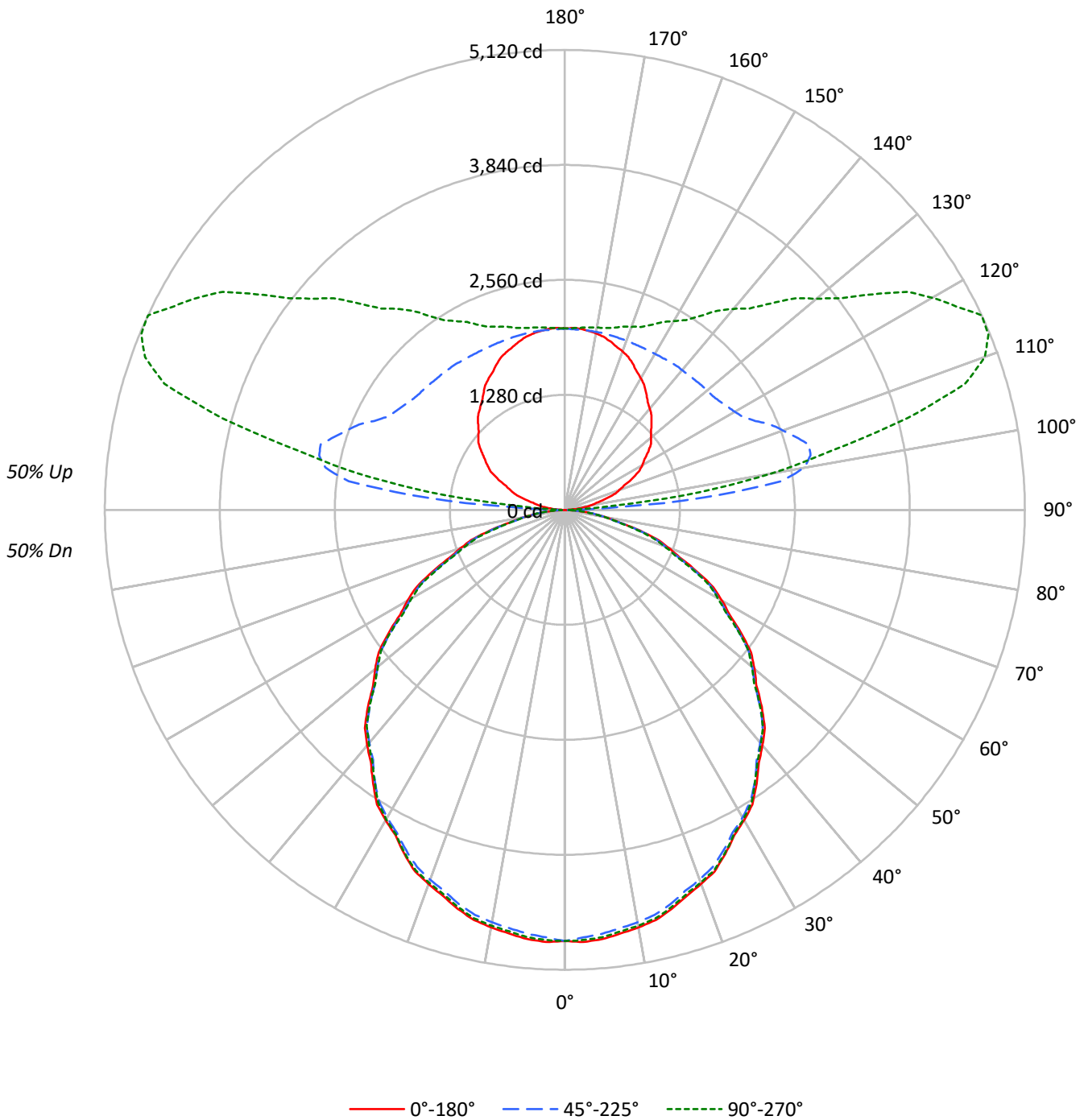
Lumens per Lamp: N/A
Luminaire Lumens: 26133.1 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 237.2
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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 50 | 49 | 47 | 42 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3 | 81 | 72 | 64 | 58 | 75 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 50 | 42 | 36 | 58 | 47 | 40 | 34 | 40 | 34 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8 | 54 | 41 | 33 | 28 | 49 | 38 | 31 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 18 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14763 | 14763 | 14763 |
| 5° | 14811 | 14624 | 14746 |
| 10° | 14743 | 14562 | 14677 |
| 15° | 14644 | 14468 | 14586 |
| 20° | 14509 | 14345 | 14457 |
| 25° | 14344 | 14192 | 14308 |
| 30° | 14167 | 14045 | 14119 |
| 35° | 13966 | 13846 | 13856 |
| 40° | 13735 | 13587 | 13629 |
| 45° | 13478 | 13329 | 13352 |
| 50° | 13184 | 13032 | 12994 |
| 55° | 12848 | 12664 | 12636 |
| 60° | 12431 | 12155 | 12090 |
| 65° | 11785 | 11535 | 11382 |
| 70° | 10975 | 10690 | 10547 |
| 75° | 9764 | 9543 | 9261 |
| 80° | 7954 | 7720 | 7674 |
| 85° | 4753 | 5406 | 5406 |



TEST NUMBER: P520355

CATALOG NUMBER: SQ4-F-125U-125D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 452.9 | 1.7 |
| 10°-20° | 1290.0 | 4.9 |
| 20°-30° | 1938.0 | 7.4 |
| 30°-40° | 2312.4 | 8.8 |
| 40°-50° | 2370.3 | 9.1 |
| 50°-60° | 2112.7 | 8.1 |
| 60°-70° | 1572.7 | 6.0 |
| 70°-80° | 852.1 | 3.3 |
| 80°-90° | 200.4 | 0.8 |
| 90°-100° | 944.3 | 3.6 |
| 100°-110° | 2543.8 | 9.7 |
| 110°-120° | 2669.6 | 10.2 |
| 120°-130° | 2166.3 | 8.3 |
| 130°-140° | 1699.0 | 6.5 |
| 140°-150° | 1304.4 | 5.0 |
| 150°-160° | 937.9 | 3.6 |
| 160°-170° | 573.0 | 2.2 |
| 170°-180° | 193.2 | 0.7 |
| 0°-30° | 3680.9 | 14.1 |
| 0°-40° | 5993.3 | 22.9 |
| 0°-60° | 10476.4 | 40.1 |
| 0°-90° | 13101.5 | 50.1 |
| 90°-120° | 6157.8 | 23.6 |
| 90°-150° | 11327.5 | 43.3 |
| 90°-180° | 13032.0 | 49.9 |
| 0°-180° | 26133.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4800 | 4800 | 4800 | 4800 | 4800 | |
| 5° | 4798 | 4790 | 4737 | 4779 | 4777 | 455 |
| 15° | 4600 | 4589 | 4544 | 4584 | 4581 | 1297 |
| 25° | 4227 | 4219 | 4182 | 4206 | 4216 | 1947 |
| 35° | 3720 | 3717 | 3688 | 3688 | 3691 | 2326 |
| 45° | 3099 | 3091 | 3065 | 3060 | 3070 | 2388 |
| 55° | 2396 | 2388 | 2362 | 2344 | 2357 | 2140 |
| 65° | 1620 | 1609 | 1585 | 1574 | 1564 | 1604 |
| 75° | 822 | 822 | 803 | 787 | 779 | 873 |
| 85° | 135 | 153 | 153 | 156 | 153 | 186 |
| 90° | 5 | 15 | 31 | 33 | 33 | 13 |
| 95° | 144 | 514 | 1548 | 792 | 548 | 150 |
| 105° | 471 | 732 | 2813 | 4209 | 3950 | 495 |
| 115° | 831 | 1017 | 2343 | 4527 | 5120 | 817 |
| 125° | 1134 | 1302 | 2104 | 3555 | 4184 | 1013 |
| 135° | 1366 | 1524 | 2044 | 2868 | 3248 | 1054 |
| 145° | 1579 | 1702 | 2019 | 2452 | 2633 | 990 |
| 155° | 1792 | 1858 | 2001 | 2200 | 2271 | 825 |
| 165° | 1944 | 1967 | 2008 | 2088 | 2098 | 548 |
| 175° | 2021 | 2019 | 2011 | 2039 | 2034 | 192 |
| 180° | 2019 | 2019 | 2019 | 2019 | 2019 | |

TEST NUMBER: P520355

CATALOG NUMBER: SQ4-F-125U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 |
| 2.5° | 4815.1 | 4806.9 | 4764.4 | 4800.2 | 4794.0 |
| 5° | 4797.7 | 4790.0 | 4737.0 | 4779.1 | 4776.6 |
| 7.5° | 4757.0 | 4747.2 | 4698.9 | 4738.4 | 4733.7 |
| 10° | 4721.1 | 4713.4 | 4663.0 | 4702.5 | 4700.0 |
| 12.5° | 4676.7 | 4669.0 | 4618.6 | 4658.2 | 4657.7 |
| 15° | 4599.5 | 4589.2 | 4544.1 | 4583.6 | 4581.1 |
| 17.5° | 4507.1 | 4495.3 | 4450.6 | 4481.9 | 4487.0 |
| 20° | 4433.1 | 4425.4 | 4383.0 | 4412.1 | 4417.3 |
| 22.5° | 4357.0 | 4347.2 | 4302.6 | 4336.0 | 4341.2 |
| 25° | 4227.1 | 4219.3 | 4182.2 | 4206.2 | 4216.5 |
| 27.5° | 4084.4 | 4084.4 | 4050.0 | 4067.1 | 4073.3 |
| 30° | 3989.3 | 3989.3 | 3954.9 | 3965.8 | 3976.0 |
| 32.5° | 3887.9 | 3879.5 | 3847.1 | 3855.8 | 3866.2 |
| 35° | 3719.8 | 3717.3 | 3688.1 | 3688.2 | 3690.7 |
| 37.5° | 3546.0 | 3538.7 | 3506.9 | 3509.3 | 3521.7 |
| 40° | 3421.2 | 3416.1 | 3384.3 | 3384.5 | 3394.9 |
| 42.5° | 3294.4 | 3289.3 | 3261.7 | 3257.5 | 3261.7 |
| 45° | 3098.9 | 3091.2 | 3064.6 | 3059.6 | 3069.9 |
| 47.5° | 2890.8 | 2892.9 | 2861.2 | 2854.0 | 2859.6 |
| 50° | 2755.6 | 2755.6 | 2723.8 | 2708.1 | 2715.9 |
| 52.5° | 2613.9 | 2609.8 | 2578.0 | 2560.4 | 2578.5 |
| 55° | 2396.3 | 2388.5 | 2361.9 | 2343.7 | 2356.6 |
| 57.5° | 2173.3 | 2161.3 | 2134.7 | 2114.7 | 2122.0 |
| 60° | 2021.1 | 2003.0 | 1976.2 | 1960.4 | 1965.6 |
| 62.5° | 1862.5 | 1852.7 | 1823.9 | 1799.9 | 1811.3 |
| 65° | 1619.5 | 1609.2 | 1585.1 | 1574.3 | 1564.1 |
| 67.5° | 1381.2 | 1374.4 | 1347.4 | 1336.1 | 1329.4 |
| 70° | 1220.6 | 1207.6 | 1188.9 | 1175.6 | 1173.0 |
| 72.5° | 1064.2 | 1049.2 | 1030.3 | 1019.1 | 1012.4 |
| 75° | 821.7 | 821.7 | 803.1 | 787.1 | 779.4 |
| 77.5° | 590.8 | 592.8 | 577.5 | 572.1 | 568.6 |
| 80° | 449.1 | 449.1 | 435.9 | 430.6 | 433.3 |
| 82.5° | 313.9 | 320.1 | 315.4 | 308.0 | 304.4 |
| 85° | 134.7 | 152.8 | 153.2 | 155.8 | 153.2 |
| 87.5° | 24.3 | 40.8 | 46.5 | 42.7 | 38.6 |
| 90° | 5.1 | 15.2 | 30.9 | 33.4 | 33.4 |
| 92.5° | 62.8 | 221.6 | 438.2 | 211.0 | 146.6 |
| 95° | 144.0 | 513.6 | 1548.1 | 791.6 | 547.7 |
| 97.5° | 229.9 | 588.0 | 2428.0 | 2028.4 | 1529.5 |
| 100° | 295.7 | 617.6 | 2707.8 | 2833.2 | 2350.4 |
| 102.5° | 359.5 | 659.2 | 2800.4 | 3435.8 | 3039.6 |
| 105° | 470.6 | 732.0 | 2813.2 | 4208.8 | 3949.9 |
| 107.5° | 575.6 | 808.8 | 2693.4 | 4606.1 | 4673.0 |
| 110° | 645.4 | 866.7 | 2584.4 | 4729.4 | 4973.3 |



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CATALOG NUMBER: SQ4-F-125U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 719.5 | 924.7 | 2479.5 | 4702.2 | 5103.0 |
| 115° | 830.6 | 1016.7 | 2342.7 | 4526.6 | 5120.0 |
| 117.5° | 932.0 | 1106.4 | 2236.7 | 4246.2 | 4907.0 |
| 120° | 997.8 | 1166.2 | 2183.2 | 4045.0 | 4723.9 |
| 122.5° | 1055.4 | 1221.9 | 2144.1 | 3839.3 | 4516.1 |
| 125° | 1134.0 | 1302.5 | 2103.5 | 3555.3 | 4183.9 |
| 127.5° | 1209.6 | 1375.6 | 2077.8 | 3304.8 | 3866.1 |
| 130° | 1254.9 | 1420.9 | 2067.6 | 3161.3 | 3654.2 |
| 132.5° | 1300.2 | 1464.1 | 2057.2 | 3034.9 | 3487.5 |
| 135° | 1365.5 | 1523.9 | 2044.4 | 2868.2 | 3247.9 |
| 137.5° | 1427.7 | 1579.6 | 2037.7 | 2726.8 | 3038.5 |
| 140° | 1470.9 | 1616.7 | 2031.6 | 2639.7 | 2921.3 |
| 142.5° | 1516.2 | 1652.0 | 2027.4 | 2558.5 | 2795.8 |
| 145° | 1578.9 | 1702.1 | 2018.6 | 2452.2 | 2633.2 |
| 147.5° | 1646.8 | 1753.9 | 2009.9 | 2362.9 | 2505.2 |
| 150° | 1692.1 | 1785.1 | 2005.8 | 2306.7 | 2425.0 |
| 152.5° | 1733.3 | 1814.2 | 2003.7 | 2261.1 | 2357.1 |
| 155° | 1792.4 | 1857.7 | 2000.7 | 2200.3 | 2270.6 |
| 157.5° | 1844.3 | 1895.1 | 2001.2 | 2157.6 | 2204.8 |
| 160° | 1877.2 | 1920.0 | 2003.2 | 2132.6 | 2167.8 |
| 162.5° | 1906.0 | 1940.8 | 2005.3 | 2111.8 | 2136.9 |
| 165° | 1944.1 | 1966.7 | 2008.4 | 2088.3 | 2098.4 |
| 167.5° | 1974.9 | 1988.0 | 2010.9 | 2070.2 | 2074.2 |
| 170° | 1995.5 | 2000.6 | 2010.9 | 2059.8 | 2059.8 |
| 172.5° | 2007.9 | 2008.9 | 2013.0 | 2049.5 | 2049.5 |
| 175° | 2021.2 | 2018.7 | 2010.9 | 2039.1 | 2034.1 |
| 177.5° | 2026.9 | 2022.9 | 2012.5 | 2028.9 | 2024.8 |
| 180° | 2018.6 | 2018.6 | 2018.6 | 2018.6 | 2018.6 |

(END OF REPORT)