

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: P563218

Luminaire Tested: **SQ4-PP3-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563218
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

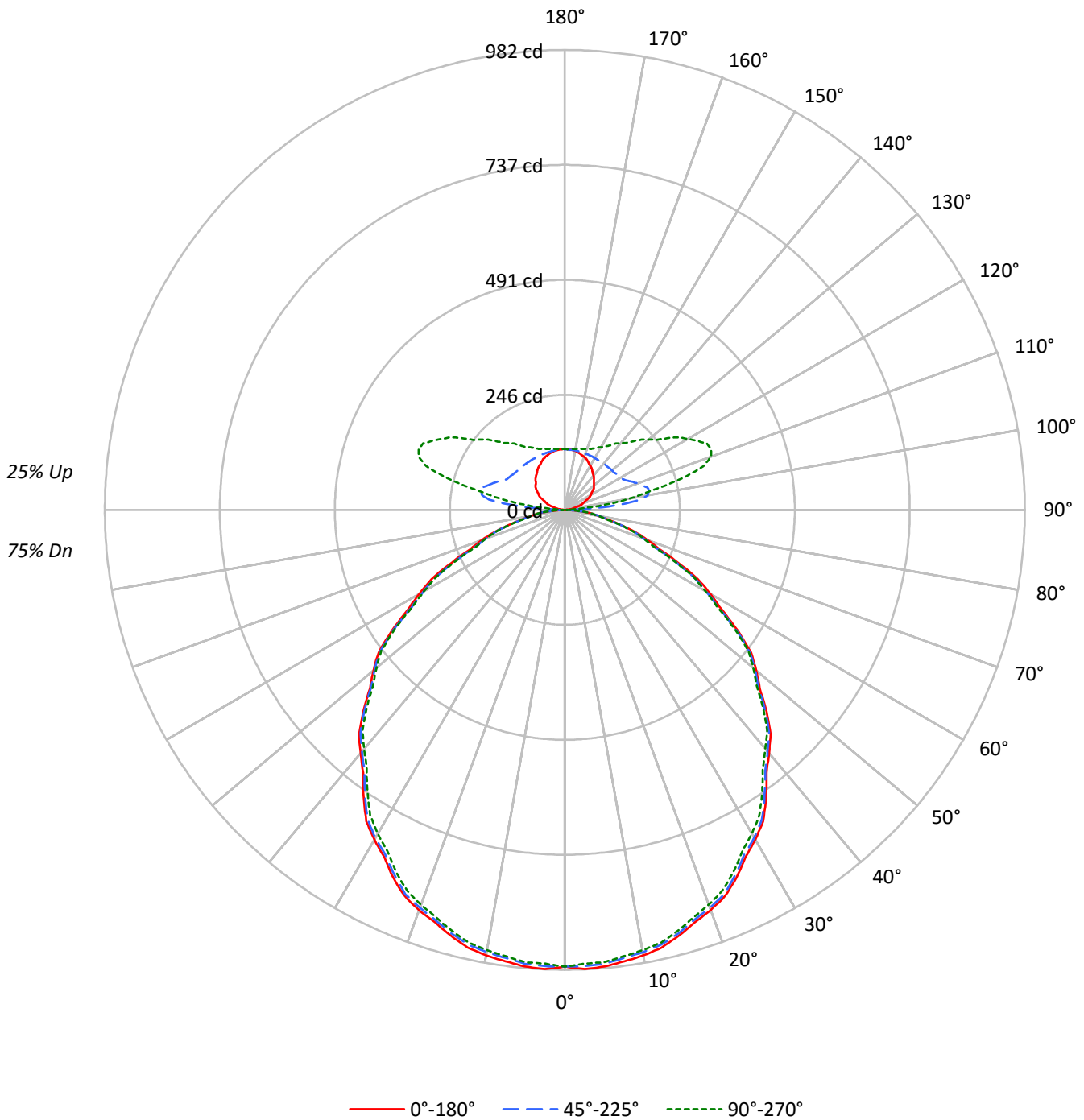
Lumens per Lamp: N/A
Luminaire Lumens: 3336.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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





TEST NUMBER: P563218

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 97 | 97 | 97 | 88 | 88 | 88 | 79 | 79 | 79 | 75 | | | | |
| 1 | 104 | 99 | 95 | 92 | 98 | 95 | 91 | 88 | 86 | 83 | 81 | 78 | 76 | 74 | 70 | 69 | 67 | 64 | | | | |
| 2 | 95 | 87 | 81 | 76 | 90 | 83 | 77 | 73 | 76 | 71 | 67 | 69 | 65 | 62 | 62 | 60 | 57 | 54 | | | | |
| 3 | 87 | 77 | 69 | 63 | 82 | 73 | 67 | 61 | 67 | 61 | 57 | 61 | 57 | 53 | 55 | 52 | 49 | 46 | | | | |
| 4 | 79 | 68 | 60 | 54 | 75 | 65 | 58 | 52 | 60 | 54 | 49 | 54 | 49 | 45 | 50 | 46 | 42 | 39 | | | | |
| 5 | 73 | 61 | 53 | 46 | 69 | 58 | 51 | 45 | 54 | 47 | 42 | 49 | 44 | 40 | 45 | 40 | 37 | 34 | | | | |
| 6 | 67 | 55 | 46 | 40 | 64 | 53 | 45 | 39 | 48 | 42 | 37 | 44 | 39 | 35 | 41 | 36 | 33 | 30 | | | | |
| 7 | 62 | 50 | 41 | 36 | 59 | 48 | 40 | 35 | 44 | 37 | 33 | 40 | 35 | 31 | 37 | 33 | 29 | 27 | | | | |
| 8 | 58 | 45 | 37 | 32 | 55 | 44 | 36 | 31 | 40 | 34 | 29 | 37 | 32 | 28 | 34 | 29 | 26 | 24 | | | | |
| 9 | 54 | 41 | 34 | 28 | 51 | 40 | 33 | 28 | 37 | 31 | 26 | 34 | 29 | 25 | 32 | 27 | 24 | 22 | | | | |
| 10 | 51 | 38 | 31 | 26 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 32 | 26 | 23 | 29 | 25 | 21 | 20 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8999 | 8999 | 8999 |
| 5° | 9065 | 9010 | 8978 |
| 10° | 9050 | 8985 | 8946 |
| 15° | 8990 | 8941 | 8892 |
| 20° | 8931 | 8880 | 8813 |
| 25° | 8824 | 8763 | 8676 |
| 30° | 8661 | 8615 | 8506 |
| 35° | 8434 | 8376 | 8271 |
| 40° | 8165 | 8113 | 8020 |
| 45° | 7941 | 7886 | 7808 |
| 50° | 7656 | 7607 | 7534 |
| 55° | 7261 | 7164 | 7110 |
| 60° | 6610 | 6420 | 6388 |
| 65° | 5822 | 5580 | 5560 |
| 70° | 5028 | 4821 | 4821 |
| 75° | 4328 | 4267 | 4206 |
| 80° | 3815 | 3863 | 3772 |
| 85° | 2985 | 3260 | 3260 |



TEST NUMBER: P563218

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.2 | 2.8 |
| 10°-20° | 263.4 | 7.9 |
| 20°-30° | 394.5 | 11.8 |
| 30°-40° | 462.7 | 13.9 |
| 40°-50° | 464.1 | 13.9 |
| 50°-60° | 395.9 | 11.9 |
| 60°-70° | 258.2 | 7.7 |
| 70°-80° | 129.6 | 3.9 |
| 80°-90° | 36.6 | 1.1 |
| 90°-100° | 63.1 | 1.9 |
| 100°-110° | 165.9 | 5.0 |
| 110°-120° | 172.0 | 5.2 |
| 120°-130° | 138.0 | 4.1 |
| 130°-140° | 108.3 | 3.2 |
| 140°-150° | 83.1 | 2.5 |
| 150°-160° | 59.9 | 1.8 |
| 160°-170° | 36.6 | 1.1 |
| 170°-180° | 12.4 | 0.4 |
| 0°-30° | 750.0 | 22.5 |
| 0°-40° | 1212.7 | 36.3 |
| 0°-60° | 2072.8 | 62.1 |
| 0°-90° | 2497.2 | 74.8 |
| 90°-120° | 401.1 | 12.0 |
| 90°-150° | 730.4 | 21.9 |
| 90°-180° | 839.0 | 25.1 |
| 0°-180° | 3336.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 975 | 975 | 975 | 975 | 975 | |
| 5° | 979 | 970 | 973 | 969 | 969 | 93 |
| 15° | 941 | 932 | 936 | 933 | 931 | 266 |
| 25° | 867 | 857 | 861 | 853 | 852 | 399 |
| 35° | 749 | 741 | 744 | 735 | 734 | 468 |
| 45° | 609 | 604 | 604 | 598 | 598 | 469 |
| 55° | 451 | 450 | 445 | 443 | 442 | 401 |
| 65° | 267 | 262 | 256 | 254 | 255 | 266 |
| 75° | 121 | 121 | 120 | 119 | 118 | 132 |
| 85° | 28 | 31 | 31 | 31 | 31 | 33 |
| 90° | 1 | 2 | 7 | 3 | 3 | 2 |
| 95° | 8 | 33 | 109 | 56 | 38 | 9 |
| 105° | 30 | 45 | 183 | 278 | 260 | 32 |
| 115° | 53 | 64 | 147 | 293 | 334 | 52 |
| 125° | 74 | 83 | 134 | 226 | 266 | 66 |
| 135° | 88 | 97 | 130 | 182 | 207 | 68 |
| 145° | 102 | 109 | 128 | 156 | 168 | 64 |
| 155° | 115 | 119 | 128 | 140 | 144 | 53 |
| 165° | 124 | 126 | 128 | 133 | 134 | 35 |
| 175° | 130 | 130 | 129 | 130 | 130 | 12 |
| 180° | 130 | 130 | 130 | 130 | 130 | |



TEST NUMBER: P563218

CATALOG NUMBER: SQ4-PP3-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 975.4 | 975.4 | 975.4 | 975.4 | 975.4 |
| 2.5° | 981.5 | 973.5 | 975.4 | 973.9 | 969.9 |
| 5° | 978.8 | 969.6 | 972.8 | 969.4 | 969.4 |
| 7.5° | 972.1 | 962.1 | 965.3 | 961.9 | 961.7 |
| 10° | 966.0 | 955.9 | 959.1 | 955.7 | 954.9 |
| 12.5° | 957.1 | 947.1 | 950.9 | 946.8 | 946.7 |
| 15° | 941.2 | 932.0 | 936.1 | 932.6 | 930.9 |
| 17.5° | 923.2 | 913.2 | 918.1 | 913.3 | 912.6 |
| 20° | 909.6 | 899.5 | 904.4 | 897.6 | 897.6 |
| 22.5° | 893.1 | 883.1 | 888.7 | 879.8 | 879.8 |
| 25° | 866.8 | 856.8 | 860.8 | 853.1 | 852.3 |
| 27.5° | 835.5 | 825.7 | 829.9 | 821.2 | 821.0 |
| 30° | 813.0 | 803.8 | 808.7 | 799.3 | 798.4 |
| 32.5° | 788.3 | 779.8 | 783.4 | 774.0 | 773.1 |
| 35° | 748.8 | 741.3 | 743.7 | 735.1 | 734.3 |
| 37.5° | 707.3 | 699.6 | 702.3 | 695.0 | 694.6 |
| 40° | 677.9 | 672.9 | 673.6 | 667.6 | 665.9 |
| 42.5° | 650.5 | 644.9 | 645.6 | 639.6 | 639.3 |
| 45° | 608.6 | 604.5 | 604.4 | 598.4 | 598.4 |
| 47.5° | 564.2 | 561.0 | 560.1 | 555.1 | 555.0 |
| 50° | 533.4 | 530.9 | 530.0 | 525.7 | 524.9 |
| 52.5° | 501.3 | 500.1 | 497.2 | 493.6 | 493.4 |
| 55° | 451.4 | 449.7 | 445.4 | 442.8 | 442.0 |
| 57.5° | 397.2 | 393.8 | 389.0 | 385.2 | 385.9 |
| 60° | 358.2 | 354.8 | 347.9 | 346.2 | 346.2 |
| 62.5° | 320.6 | 316.6 | 309.6 | 307.3 | 308.6 |
| 65° | 266.7 | 261.7 | 255.6 | 253.9 | 254.7 |
| 67.5° | 217.8 | 213.3 | 206.7 | 206.7 | 206.0 |
| 70° | 186.4 | 183.8 | 178.7 | 178.7 | 178.7 |
| 72.5° | 158.3 | 157.1 | 153.4 | 153.3 | 152.7 |
| 75° | 121.4 | 121.4 | 119.7 | 118.8 | 118.0 |
| 77.5° | 91.0 | 91.3 | 90.4 | 89.6 | 88.0 |
| 80° | 71.8 | 73.5 | 72.7 | 71.8 | 71.0 |
| 82.5° | 54.0 | 55.7 | 55.6 | 54.0 | 53.9 |
| 85° | 28.2 | 30.7 | 30.8 | 30.8 | 30.8 |
| 87.5° | 7.7 | 10.7 | 12.3 | 11.6 | 12.3 |
| 90° | 0.8 | 2.5 | 6.6 | 3.3 | 3.3 |
| 92.5° | 3.5 | 16.8 | 37.2 | 16.5 | 10.6 |
| 95° | 8.3 | 32.6 | 108.7 | 56.0 | 38.2 |
| 97.5° | 14.4 | 35.9 | 162.7 | 129.4 | 95.3 |
| 100° | 19.1 | 38.6 | 179.3 | 181.7 | 141.1 |
| 102.5° | 23.1 | 41.3 | 183.9 | 226.3 | 191.6 |
| 105° | 29.9 | 45.3 | 183.4 | 278.5 | 259.8 |
| 107.5° | 36.9 | 51.1 | 173.0 | 305.6 | 310.1 |
| 110° | 41.5 | 54.5 | 164.3 | 312.5 | 332.0 |

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CATALOG NUMBER: SQ4-PP3-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 46.2 | 58.5 | 156.4 | 308.1 | 338.0 |
| 115° | 53.1 | 64.5 | 146.9 | 293.1 | 334.5 |
| 117.5° | 59.9 | 70.3 | 140.4 | 272.3 | 318.2 |
| 120° | 63.9 | 73.7 | 137.8 | 258.3 | 303.0 |
| 122.5° | 67.9 | 77.6 | 135.8 | 244.4 | 288.4 |
| 125° | 73.9 | 82.8 | 133.6 | 225.9 | 266.4 |
| 127.5° | 78.7 | 87.8 | 131.8 | 210.9 | 245.2 |
| 130° | 81.3 | 91.1 | 131.1 | 201.6 | 233.2 |
| 132.5° | 84.0 | 93.7 | 130.5 | 193.5 | 222.0 |
| 135° | 88.0 | 96.9 | 129.5 | 182.3 | 206.7 |
| 137.5° | 92.1 | 100.9 | 129.3 | 173.9 | 193.9 |
| 140° | 95.5 | 103.6 | 128.7 | 167.3 | 185.9 |
| 142.5° | 98.1 | 105.6 | 128.7 | 162.6 | 178.6 |
| 145° | 102.1 | 108.6 | 127.8 | 155.5 | 167.7 |
| 147.5° | 106.1 | 112.4 | 127.8 | 149.6 | 159.7 |
| 150° | 108.7 | 114.4 | 127.8 | 146.3 | 154.4 |
| 152.5° | 111.4 | 115.8 | 127.8 | 143.6 | 149.7 |
| 155° | 115.4 | 118.6 | 127.8 | 140.4 | 144.4 |
| 157.5° | 118.4 | 121.4 | 127.8 | 137.5 | 140.4 |
| 160° | 120.4 | 122.8 | 127.8 | 136.2 | 137.8 |
| 162.5° | 122.3 | 124.1 | 127.8 | 134.8 | 136.5 |
| 165° | 124.5 | 126.1 | 127.8 | 132.8 | 134.5 |
| 167.5° | 126.5 | 127.3 | 128.7 | 132.0 | 132.6 |
| 170° | 127.8 | 128.6 | 128.7 | 132.0 | 132.0 |
| 172.5° | 128.5 | 128.7 | 128.7 | 131.3 | 130.6 |
| 175° | 129.5 | 129.5 | 128.7 | 130.3 | 130.3 |
| 177.5° | 129.5 | 129.5 | 128.8 | 130.1 | 129.5 |
| 180° | 129.5 | 129.5 | 129.5 | 129.5 | 129.5 |

(END OF REPORT)