

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: P562590

Luminaire Tested: **SQ4-PC3-025U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562590
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

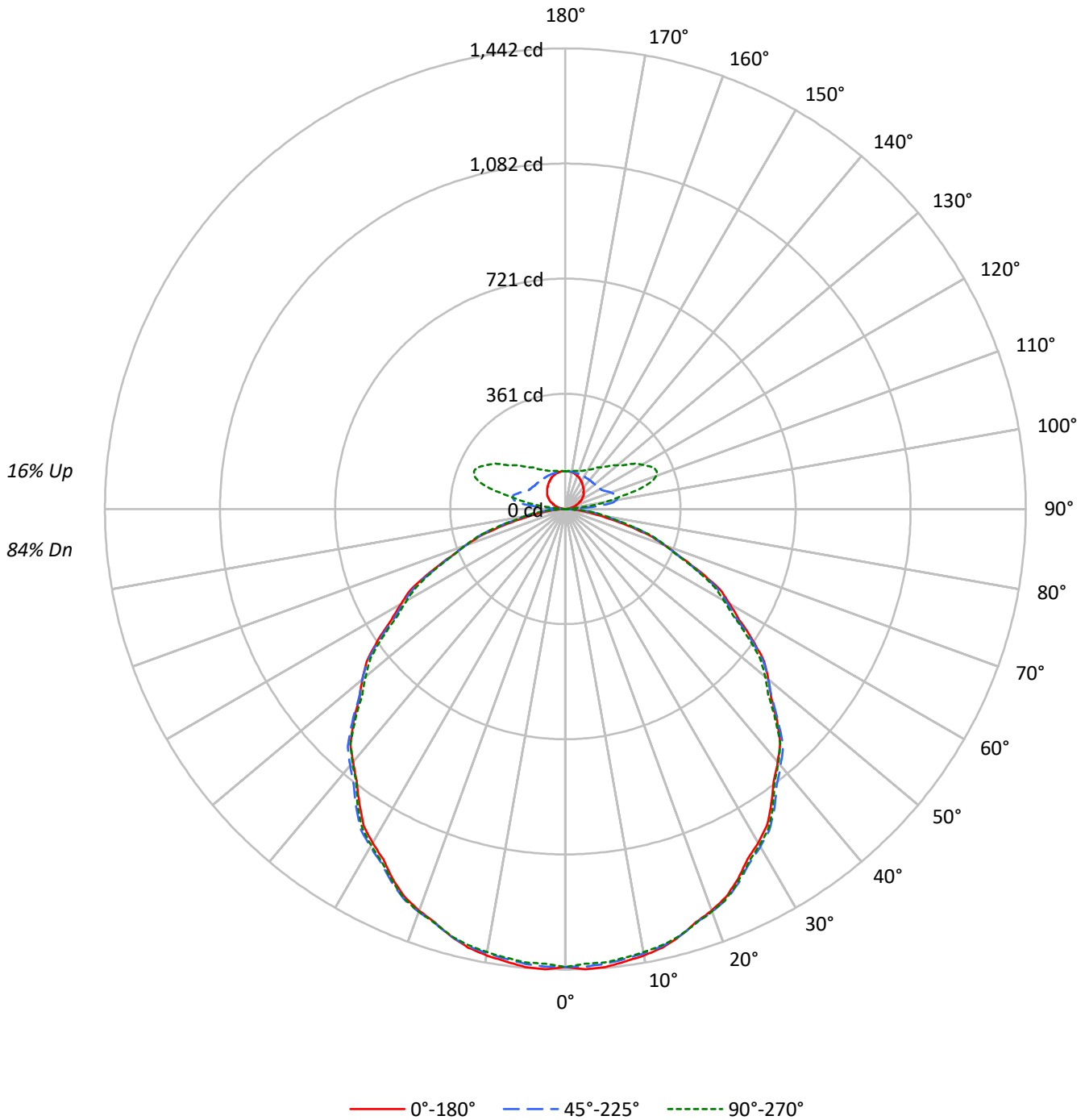
Lumens per Lamp: N/A
Luminaire Lumens: 4682.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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: P562590

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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 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 84 | | | | |
| 1 | 105 | 101 | 97 | 93 | 101 | 97 | 93 | 90 | 90 | 87 | 84 | 83 | 81 | 79 | 77 | 75 | 74 | 71 | | | | |
| 2 | 96 | 88 | 82 | 76 | 92 | 85 | 79 | 74 | 79 | 74 | 70 | 73 | 69 | 66 | 68 | 65 | 62 | 59 | | | | |
| 3 | 88 | 78 | 70 | 64 | 84 | 75 | 68 | 62 | 70 | 64 | 59 | 65 | 60 | 56 | 60 | 56 | 53 | 50 | | | | |
| 4 | 80 | 69 | 60 | 54 | 77 | 66 | 59 | 53 | 62 | 55 | 50 | 58 | 52 | 48 | 54 | 49 | 46 | 43 | | | | |
| 5 | 74 | 61 | 53 | 46 | 71 | 59 | 51 | 45 | 55 | 49 | 43 | 52 | 46 | 42 | 48 | 44 | 40 | 37 | | | | |
| 6 | 68 | 55 | 47 | 40 | 65 | 53 | 45 | 40 | 50 | 43 | 38 | 47 | 41 | 36 | 44 | 39 | 35 | 33 | | | | |
| 7 | 63 | 50 | 42 | 36 | 60 | 48 | 41 | 35 | 45 | 39 | 34 | 43 | 37 | 32 | 40 | 35 | 31 | 29 | | | | |
| 8 | 59 | 46 | 37 | 32 | 56 | 44 | 37 | 31 | 42 | 35 | 30 | 39 | 33 | 29 | 37 | 32 | 28 | 26 | | | | |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 34 | 29 | 25 | 23 | | | | |
| 10 | 51 | 38 | 31 | 26 | 49 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 31 | 26 | 23 | 21 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13230 | 13230 | 13230 |
| 5° | 13330 | 13244 | 13195 |
| 10° | 13298 | 13236 | 13198 |
| 15° | 13228 | 13228 | 13215 |
| 20° | 13141 | 13180 | 13180 |
| 25° | 13017 | 13111 | 13071 |
| 30° | 12859 | 13014 | 12957 |
| 35° | 12666 | 12861 | 12771 |
| 40° | 12457 | 12633 | 12505 |
| 45° | 12231 | 12318 | 12127 |
| 50° | 11912 | 11912 | 11721 |
| 55° | 11533 | 11384 | 11213 |
| 60° | 10975 | 10756 | 10584 |
| 65° | 10145 | 9942 | 9855 |
| 70° | 8883 | 8953 | 8918 |
| 75° | 7147 | 7903 | 7953 |
| 80° | 5079 | 6700 | 6774 |
| 85° | 3091 | 5621 | 5621 |



TEST NUMBER: P562590

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.7 | 2.9 |
| 10°-20° | 389.5 | 8.3 |
| 20°-30° | 589.8 | 12.6 |
| 30°-40° | 707.1 | 15.1 |
| 40°-50° | 721.0 | 15.4 |
| 50°-60° | 629.4 | 13.4 |
| 60°-70° | 450.5 | 9.6 |
| 70°-80° | 232.1 | 5.0 |
| 80°-90° | 59.3 | 1.3 |
| 90°-100° | 57.8 | 1.2 |
| 100°-110° | 151.9 | 3.2 |
| 110°-120° | 157.6 | 3.4 |
| 120°-130° | 126.4 | 2.7 |
| 130°-140° | 99.2 | 2.1 |
| 140°-150° | 76.1 | 1.6 |
| 150°-160° | 54.8 | 1.2 |
| 160°-170° | 33.5 | 0.7 |
| 170°-180° | 11.3 | 0.2 |
| 0°-30° | 1115.0 | 23.8 |
| 0°-40° | 1822.0 | 38.9 |
| 0°-60° | 3172.3 | 67.7 |
| 0°-90° | 3914.3 | 83.6 |
| 90°-120° | 367.3 | 7.8 |
| 90°-150° | 669.0 | 14.3 |
| 90°-180° | 769.0 | 16.4 |
| 0°-180° | 4682.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1434 | 1434 | 1434 | 1434 | 1434 | |
| 5° | 1439 | 1425 | 1430 | 1426 | 1425 | 137 |
| 15° | 1385 | 1373 | 1385 | 1385 | 1384 | 390 |
| 25° | 1279 | 1270 | 1288 | 1284 | 1284 | 588 |
| 35° | 1125 | 1122 | 1142 | 1134 | 1134 | 703 |
| 45° | 937 | 935 | 944 | 932 | 929 | 722 |
| 55° | 717 | 708 | 708 | 697 | 697 | 639 |
| 65° | 465 | 454 | 455 | 451 | 451 | 460 |
| 75° | 200 | 210 | 222 | 223 | 223 | 217 |
| 85° | 29 | 45 | 53 | 54 | 53 | 40 |
| 90° | 1 | 2 | 6 | 3 | 3 | 2 |
| 95° | 8 | 30 | 100 | 51 | 35 | 8 |
| 105° | 27 | 42 | 168 | 255 | 238 | 29 |
| 115° | 49 | 59 | 135 | 268 | 306 | 48 |
| 125° | 68 | 76 | 122 | 207 | 244 | 60 |
| 135° | 81 | 89 | 119 | 167 | 189 | 62 |
| 145° | 94 | 99 | 117 | 142 | 154 | 59 |
| 155° | 106 | 109 | 117 | 129 | 132 | 49 |
| 165° | 114 | 116 | 117 | 122 | 123 | 32 |
| 175° | 119 | 119 | 118 | 119 | 119 | 11 |
| 180° | 119 | 119 | 119 | 119 | 119 | |

TEST NUMBER: P562590

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1434.0 | 1434.0 | 1434.0 | 1434.0 | 1434.0 |
| 2.5° | 1442.5 | 1430.0 | 1434.0 | 1430.7 | 1425.5 |
| 5° | 1439.3 | 1425.0 | 1430.0 | 1426.0 | 1424.7 |
| 7.5° | 1429.0 | 1414.7 | 1421.3 | 1418.6 | 1417.3 |
| 10° | 1419.4 | 1405.1 | 1412.8 | 1410.1 | 1408.8 |
| 12.5° | 1406.6 | 1393.4 | 1402.1 | 1399.5 | 1399.2 |
| 15° | 1384.9 | 1373.2 | 1384.9 | 1384.8 | 1383.5 |
| 17.5° | 1357.5 | 1346.9 | 1359.4 | 1360.2 | 1359.4 |
| 20° | 1338.4 | 1326.7 | 1342.4 | 1341.1 | 1342.4 |
| 22.5° | 1315.0 | 1305.4 | 1322.2 | 1318.8 | 1320.1 |
| 25° | 1278.7 | 1269.6 | 1287.9 | 1284.0 | 1284.0 |
| 27.5° | 1235.6 | 1229.1 | 1249.2 | 1244.9 | 1244.9 |
| 30° | 1207.0 | 1200.5 | 1221.6 | 1216.2 | 1216.2 |
| 32.5° | 1175.1 | 1170.7 | 1190.8 | 1184.4 | 1184.4 |
| 35° | 1124.6 | 1122.0 | 1141.9 | 1133.9 | 1133.9 |
| 37.5° | 1072.6 | 1070.2 | 1088.2 | 1078.6 | 1075.5 |
| 40° | 1034.3 | 1033.0 | 1048.9 | 1038.3 | 1038.3 |
| 42.5° | 996.1 | 994.8 | 1008.6 | 995.8 | 995.8 |
| 45° | 937.4 | 934.8 | 944.1 | 932.0 | 929.4 |
| 47.5° | 873.4 | 870.8 | 876.6 | 863.6 | 862.3 |
| 50° | 829.9 | 827.3 | 829.9 | 817.9 | 816.6 |
| 52.5° | 785.2 | 780.6 | 781.0 | 769.0 | 768.8 |
| 55° | 717.0 | 707.9 | 707.7 | 697.1 | 697.1 |
| 57.5° | 644.8 | 632.8 | 633.9 | 624.8 | 623.5 |
| 60° | 594.8 | 581.9 | 582.9 | 574.9 | 573.6 |
| 62.5° | 546.0 | 530.9 | 534.0 | 525.0 | 524.7 |
| 65° | 464.7 | 454.3 | 455.4 | 451.4 | 451.4 |
| 67.5° | 386.6 | 377.0 | 384.0 | 380.8 | 380.5 |
| 70° | 329.3 | 322.8 | 331.9 | 331.9 | 330.6 |
| 72.5° | 276.2 | 275.9 | 287.3 | 287.3 | 288.1 |
| 75° | 200.5 | 209.6 | 221.7 | 223.1 | 223.1 |
| 77.5° | 133.8 | 149.9 | 163.3 | 163.8 | 163.6 |
| 80° | 95.6 | 113.8 | 126.1 | 128.8 | 127.5 |
| 82.5° | 64.8 | 84.0 | 94.3 | 96.9 | 95.6 |
| 85° | 29.2 | 44.8 | 53.1 | 54.4 | 53.1 |
| 87.5° | 8.6 | 18.3 | 22.5 | 21.8 | 19.7 |
| 90° | 0.8 | 2.2 | 6.1 | 3.0 | 3.0 |
| 92.5° | 3.2 | 15.4 | 34.1 | 15.1 | 9.7 |
| 95° | 7.6 | 29.9 | 99.6 | 51.3 | 35.0 |
| 97.5° | 13.2 | 32.8 | 149.0 | 118.5 | 87.3 |
| 100° | 17.5 | 35.3 | 164.2 | 166.4 | 129.2 |
| 102.5° | 21.1 | 37.8 | 168.5 | 207.3 | 175.4 |
| 105° | 27.4 | 41.5 | 168.0 | 255.0 | 237.9 |
| 107.5° | 33.8 | 46.8 | 158.4 | 279.8 | 284.0 |
| 110° | 38.0 | 49.9 | 150.5 | 286.2 | 304.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 42.3 | 53.6 | 143.2 | 282.2 | 309.5 |
| 115° | 48.7 | 59.1 | 134.6 | 268.4 | 306.4 |
| 117.5° | 54.9 | 64.4 | 128.6 | 249.4 | 291.5 |
| 120° | 58.5 | 67.5 | 126.2 | 236.6 | 277.5 |
| 122.5° | 62.2 | 71.1 | 124.4 | 223.8 | 264.1 |
| 125° | 67.7 | 75.8 | 122.4 | 206.9 | 244.0 |
| 127.5° | 72.1 | 80.4 | 120.7 | 193.2 | 224.6 |
| 130° | 74.5 | 83.4 | 120.1 | 184.6 | 213.6 |
| 132.5° | 76.9 | 85.8 | 119.5 | 177.3 | 203.3 |
| 135° | 80.6 | 88.8 | 118.6 | 167.0 | 189.3 |
| 137.5° | 84.4 | 92.4 | 118.4 | 159.3 | 177.6 |
| 140° | 87.4 | 94.9 | 117.8 | 153.2 | 170.3 |
| 142.5° | 89.9 | 96.7 | 117.8 | 148.9 | 163.6 |
| 145° | 93.5 | 99.4 | 117.1 | 142.4 | 153.6 |
| 147.5° | 97.2 | 102.9 | 117.1 | 137.0 | 146.3 |
| 150° | 99.6 | 104.8 | 117.1 | 134.0 | 141.4 |
| 152.5° | 102.0 | 106.0 | 117.1 | 131.5 | 137.1 |
| 155° | 105.7 | 108.6 | 117.1 | 128.6 | 132.3 |
| 157.5° | 108.4 | 111.2 | 117.1 | 125.9 | 128.6 |
| 160° | 110.2 | 112.5 | 117.1 | 124.7 | 126.2 |
| 162.5° | 112.0 | 113.7 | 117.1 | 123.5 | 125.0 |
| 165° | 114.0 | 115.5 | 117.1 | 121.7 | 123.1 |
| 167.5° | 115.9 | 116.6 | 117.8 | 120.9 | 121.5 |
| 170° | 117.1 | 117.8 | 117.8 | 120.9 | 120.9 |
| 172.5° | 117.7 | 117.8 | 117.8 | 120.2 | 119.7 |
| 175° | 118.6 | 118.6 | 117.8 | 119.3 | 119.3 |
| 177.5° | 118.6 | 118.6 | 118.0 | 119.2 | 118.6 |
| 180° | 118.6 | 118.6 | 118.6 | 118.6 | 118.6 |

(END OF REPORT)