

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: P563292

Luminaire Tested: **SQ4-PP3-050U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563292
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

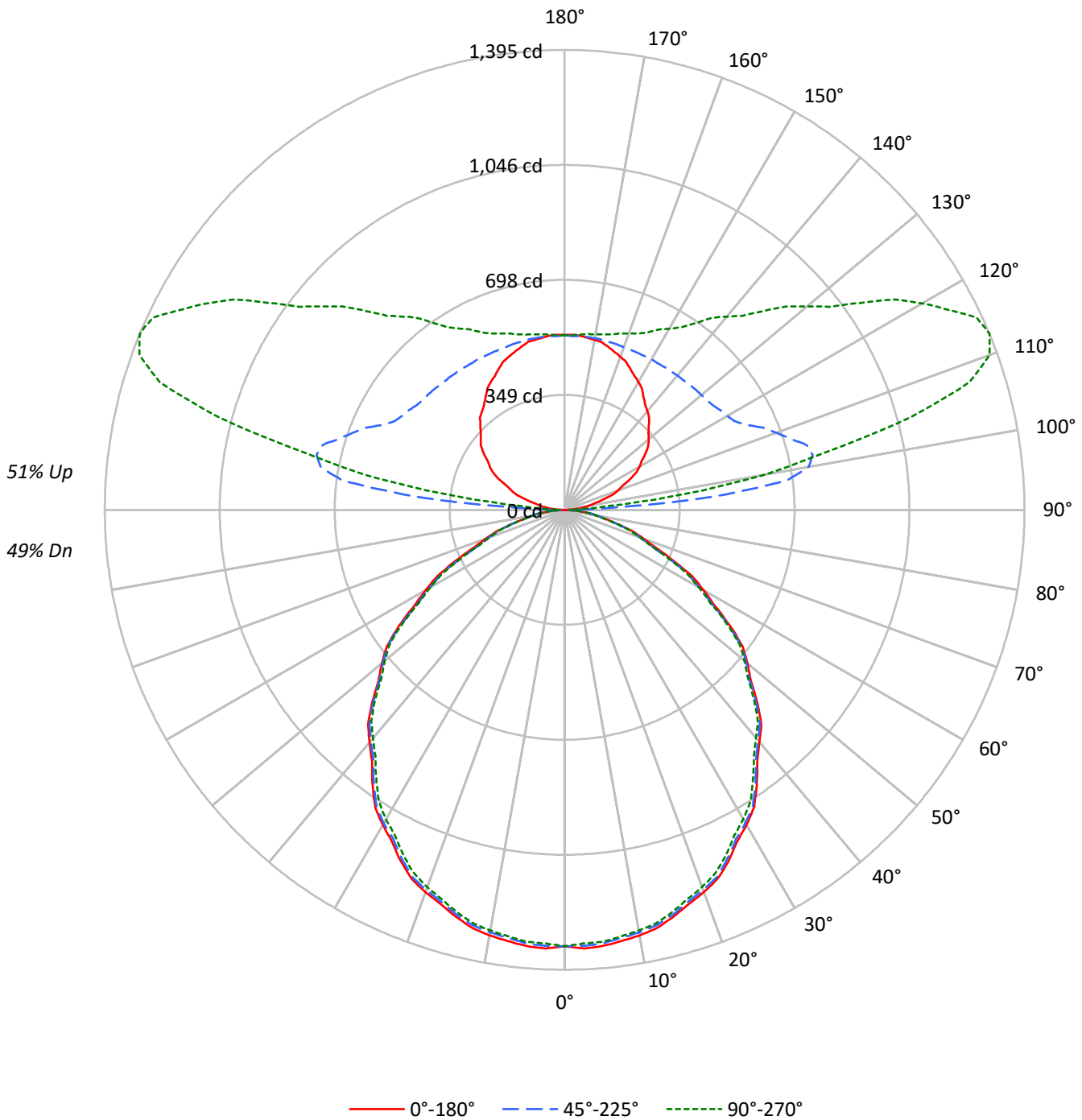
Lumens per Lamp: N/A
Luminaire Lumens: 6851.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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





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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 49 | | | | |
| 1 | 98 | 94 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 69 | 61 | 59 | 58 | 49 | 48 | 47 | 42 | | | | |
| 2 | 89 | 82 | 76 | 71 | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 36 | | | | |
| 3 | 82 | 72 | 65 | 59 | 75 | 67 | 61 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 36 | 34 | 30 | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 | | | | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 31 | 28 | 26 | 23 | | | | |
| 6 | 63 | 51 | 43 | 37 | 58 | 48 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 20 | | | | |
| 7 | 58 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 | | | | |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 | | | | |
| 9 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 | | | | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 13 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6105 | 6105 | 6105 |
| 5° | 6151 | 6113 | 6091 |
| 10° | 6140 | 6097 | 6069 |
| 15° | 6099 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5845 | 5771 |
| 35° | 5722 | 5683 | 5611 |
| 40° | 5540 | 5505 | 5441 |
| 45° | 5388 | 5350 | 5297 |
| 50° | 5195 | 5161 | 5111 |
| 55° | 4926 | 4861 | 4823 |
| 60° | 4484 | 4356 | 4334 |
| 65° | 3950 | 3786 | 3773 |
| 70° | 3411 | 3269 | 3269 |
| 75° | 2936 | 2895 | 2854 |
| 80° | 2588 | 2619 | 2558 |
| 85° | 2027 | 2212 | 2212 |



TEST NUMBER: P563292

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.2 | 1.8 |
| 10°-20° | 357.4 | 5.2 |
| 20°-30° | 535.3 | 7.8 |
| 30°-40° | 627.8 | 9.2 |
| 40°-50° | 629.8 | 9.2 |
| 50°-60° | 537.3 | 7.8 |
| 60°-70° | 350.4 | 5.1 |
| 70°-80° | 175.8 | 2.6 |
| 80°-90° | 50.7 | 0.7 |
| 90°-100° | 254.5 | 3.7 |
| 100°-110° | 691.4 | 10.1 |
| 110°-120° | 710.8 | 10.4 |
| 120°-130° | 568.3 | 8.3 |
| 130°-140° | 446.6 | 6.5 |
| 140°-150° | 342.4 | 5.0 |
| 150°-160° | 246.2 | 3.6 |
| 160°-170° | 150.6 | 2.2 |
| 170°-180° | 50.7 | 0.7 |
| 0°-30° | 1017.8 | 14.9 |
| 0°-40° | 1645.6 | 24.0 |
| 0°-60° | 2812.7 | 41.1 |
| 0°-90° | 3389.6 | 49.5 |
| 90°-120° | 1656.7 | 24.2 |
| 90°-150° | 3014.0 | 44.0 |
| 90°-180° | 3462.0 | 50.5 |
| 0°-180° | 6851.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1324 | 1324 | 1324 | 1324 | 1324 | |
| 5° | 1328 | 1316 | 1320 | 1315 | 1315 | 126 |
| 15° | 1277 | 1265 | 1270 | 1266 | 1263 | 360 |
| 25° | 1176 | 1163 | 1168 | 1158 | 1156 | 541 |
| 35° | 1016 | 1006 | 1009 | 998 | 996 | 635 |
| 45° | 826 | 820 | 820 | 812 | 812 | 636 |
| 55° | 612 | 610 | 604 | 601 | 600 | 544 |
| 65° | 362 | 355 | 347 | 344 | 346 | 361 |
| 75° | 165 | 165 | 162 | 161 | 160 | 179 |
| 85° | 38 | 42 | 42 | 42 | 42 | 45 |
| 90° | 2 | 7 | 12 | 15 | 15 | 4 |
| 95° | 38 | 139 | 443 | 193 | 130 | 40 |
| 105° | 123 | 191 | 760 | 1158 | 1089 | 130 |
| 115° | 218 | 265 | 609 | 1211 | 1379 | 215 |
| 125° | 300 | 342 | 551 | 928 | 1094 | 267 |
| 135° | 361 | 401 | 535 | 756 | 852 | 279 |
| 145° | 418 | 448 | 528 | 642 | 690 | 262 |
| 155° | 472 | 489 | 525 | 577 | 593 | 218 |
| 165° | 511 | 518 | 527 | 549 | 551 | 144 |
| 175° | 530 | 532 | 528 | 535 | 534 | 50 |
| 180° | 530 | 530 | 530 | 530 | 530 | |

TEST NUMBER: P563292

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5° | 1331.9 | 1321.0 | 1323.5 | 1321.6 | 1316.1 |
| 5° | 1328.2 | 1315.7 | 1320.1 | 1315.4 | 1315.4 |
| 7.5° | 1319.1 | 1305.5 | 1309.9 | 1305.2 | 1305.0 |
| 10° | 1310.8 | 1297.2 | 1301.5 | 1296.8 | 1295.7 |
| 12.5° | 1298.7 | 1285.1 | 1290.4 | 1284.8 | 1284.6 |
| 15° | 1277.1 | 1264.7 | 1270.2 | 1265.5 | 1263.2 |
| 17.5° | 1252.8 | 1239.2 | 1245.8 | 1239.3 | 1238.4 |
| 20° | 1234.2 | 1220.6 | 1227.3 | 1218.0 | 1218.0 |
| 22.5° | 1212.0 | 1198.3 | 1205.9 | 1193.9 | 1193.9 |
| 25° | 1176.2 | 1162.6 | 1168.1 | 1157.6 | 1156.5 |
| 27.5° | 1133.8 | 1120.4 | 1126.1 | 1114.3 | 1114.0 |
| 30° | 1103.1 | 1090.7 | 1097.3 | 1084.6 | 1083.4 |
| 32.5° | 1069.7 | 1058.2 | 1063.0 | 1050.2 | 1049.1 |
| 35° | 1016.1 | 1005.9 | 1009.2 | 997.6 | 996.4 |
| 37.5° | 959.8 | 949.3 | 953.0 | 943.1 | 942.6 |
| 40° | 919.9 | 913.1 | 914.1 | 905.9 | 903.6 |
| 42.5° | 882.7 | 875.0 | 876.0 | 867.9 | 867.4 |
| 45° | 825.9 | 820.2 | 820.1 | 812.0 | 812.0 |
| 47.5° | 765.6 | 761.3 | 760.0 | 753.3 | 753.1 |
| 50° | 723.8 | 720.4 | 719.2 | 713.4 | 712.2 |
| 52.5° | 680.2 | 678.6 | 674.6 | 669.8 | 669.5 |
| 55° | 612.5 | 610.2 | 604.4 | 600.8 | 599.7 |
| 57.5° | 538.9 | 534.4 | 527.8 | 522.7 | 523.6 |
| 60° | 486.0 | 481.5 | 472.1 | 469.8 | 469.8 |
| 62.5° | 435.0 | 429.6 | 420.1 | 416.9 | 418.8 |
| 65° | 361.9 | 355.1 | 346.8 | 344.5 | 345.7 |
| 67.5° | 295.6 | 289.4 | 280.5 | 280.5 | 279.6 |
| 70° | 252.9 | 249.5 | 242.4 | 242.4 | 242.4 |
| 72.5° | 214.8 | 213.2 | 208.1 | 208.1 | 207.2 |
| 75° | 164.7 | 164.7 | 162.4 | 161.2 | 160.1 |
| 77.5° | 123.4 | 123.9 | 122.7 | 121.5 | 119.5 |
| 80° | 97.4 | 99.7 | 98.6 | 97.4 | 96.3 |
| 82.5° | 73.3 | 75.6 | 75.4 | 73.3 | 73.1 |
| 85° | 38.3 | 41.7 | 41.8 | 41.8 | 41.8 |
| 87.5° | 10.5 | 15.2 | 17.2 | 17.9 | 18.8 |
| 90° | 1.7 | 6.7 | 11.9 | 15.3 | 15.3 |
| 92.5° | 15.3 | 69.7 | 121.0 | 52.0 | 44.0 |
| 95° | 37.5 | 139.2 | 443.2 | 192.9 | 129.6 |
| 97.5° | 62.1 | 153.7 | 679.5 | 528.6 | 371.3 |
| 100° | 78.4 | 163.4 | 751.8 | 762.1 | 615.4 |
| 102.5° | 94.8 | 173.1 | 770.9 | 942.5 | 813.1 |
| 105° | 122.7 | 191.1 | 760.3 | 1157.6 | 1089.3 |
| 107.5° | 151.7 | 212.1 | 716.3 | 1268.7 | 1287.7 |
| 110° | 172.2 | 227.2 | 683.6 | 1290.6 | 1372.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 189.9 | 242.2 | 650.8 | 1272.4 | 1395.4 |
| 115° | 218.2 | 264.9 | 608.6 | 1210.7 | 1379.1 |
| 117.5° | 244.8 | 289.5 | 581.6 | 1123.3 | 1312.9 |
| 120° | 262.5 | 305.9 | 569.4 | 1064.6 | 1252.9 |
| 122.5° | 277.5 | 320.9 | 561.2 | 1005.8 | 1187.5 |
| 125° | 300.0 | 341.7 | 550.6 | 927.7 | 1094.4 |
| 127.5° | 320.1 | 361.5 | 544.8 | 868.5 | 1011.6 |
| 130° | 332.4 | 372.4 | 542.1 | 831.4 | 959.7 |
| 132.5° | 344.7 | 384.7 | 539.4 | 799.7 | 913.4 |
| 135° | 361.4 | 401.4 | 535.3 | 755.7 | 852.3 |
| 137.5° | 379.5 | 415.8 | 533.2 | 716.8 | 798.1 |
| 140° | 390.4 | 425.4 | 531.9 | 692.1 | 765.4 |
| 142.5° | 401.3 | 433.6 | 530.5 | 672.7 | 734.0 |
| 145° | 417.6 | 447.6 | 528.4 | 642.1 | 690.4 |
| 147.5° | 436.1 | 461.7 | 526.7 | 618.0 | 656.0 |
| 150° | 448.3 | 470.0 | 526.7 | 604.1 | 634.1 |
| 152.5° | 457.9 | 476.9 | 525.4 | 591.7 | 616.4 |
| 155° | 472.2 | 488.9 | 525.0 | 576.6 | 593.2 |
| 157.5° | 486.2 | 499.2 | 525.0 | 566.2 | 578.9 |
| 160° | 494.4 | 506.0 | 525.0 | 559.4 | 569.4 |
| 162.5° | 502.5 | 511.5 | 526.4 | 553.8 | 561.2 |
| 165° | 511.4 | 518.1 | 526.7 | 548.9 | 550.6 |
| 167.5° | 520.6 | 523.9 | 528.4 | 543.1 | 544.5 |
| 170° | 523.3 | 526.7 | 528.4 | 540.4 | 540.4 |
| 172.5° | 526.1 | 528.1 | 528.4 | 537.7 | 537.7 |
| 175° | 530.2 | 531.8 | 528.4 | 535.2 | 533.6 |
| 177.5° | 531.5 | 531.5 | 527.4 | 532.8 | 530.2 |
| 180° | 530.2 | 530.2 | 530.2 | 530.2 | 530.2 |

(END OF REPORT)