

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: P564175

Luminaire Tested: **SQ4-PR1-0U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564175
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

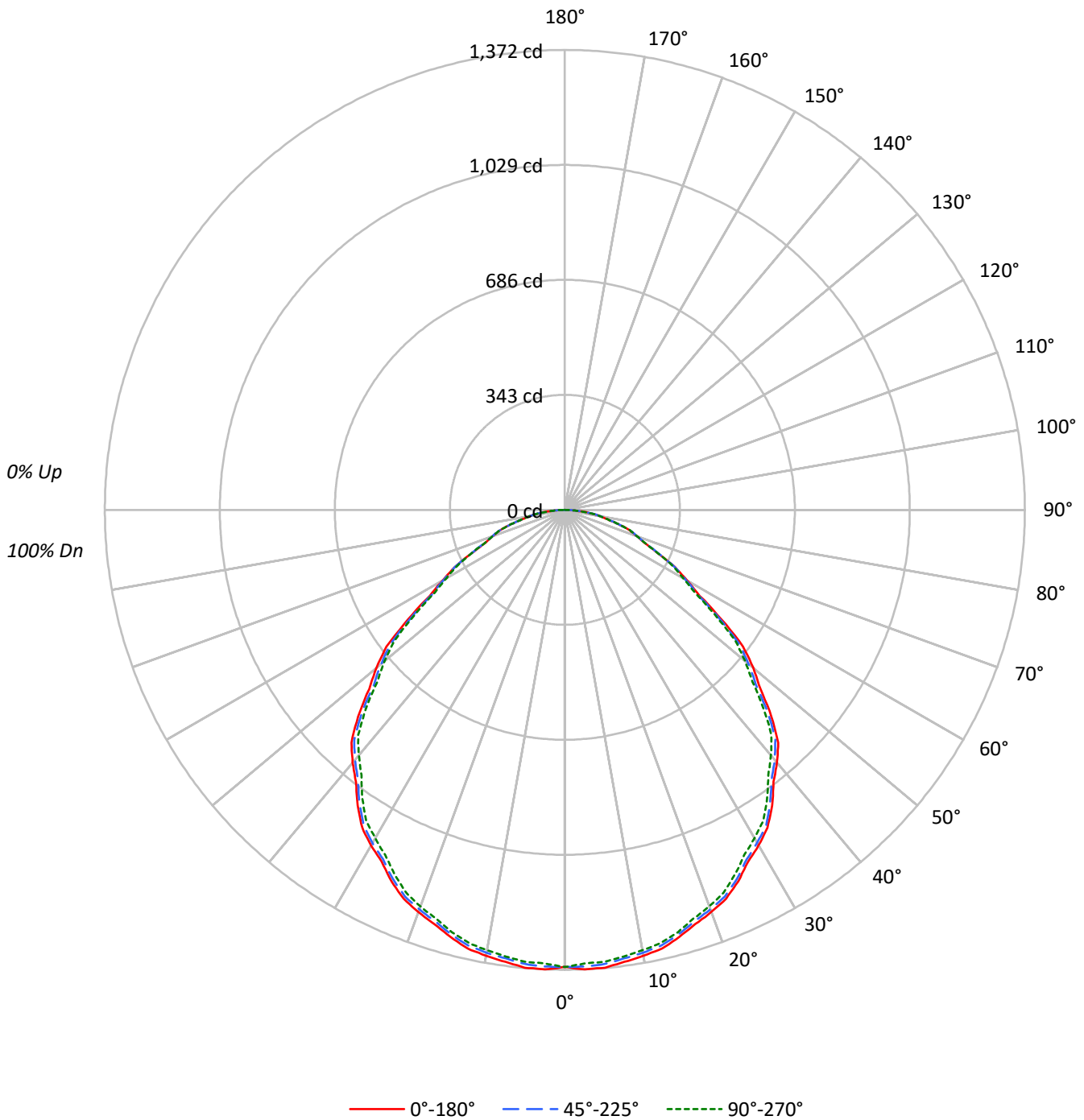
Lumens per Lamp: N/A
Luminaire Lumens: 3409.1 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 72 |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 68 | 78 | 71 | 66 | 75 | 70 | 65 | 72 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 50 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8388 | 8388 | 8388 |
| 5° | 8464 | 8398 | 8354 |
| 10° | 8437 | 8378 | 8334 |
| 15° | 8400 | 8348 | 8302 |
| 20° | 8357 | 8304 | 8242 |
| 25° | 8299 | 8242 | 8147 |
| 30° | 8209 | 8151 | 8033 |
| 35° | 8088 | 8017 | 7902 |
| 40° | 7903 | 7818 | 7677 |
| 45° | 7582 | 7449 | 7295 |
| 50° | 7014 | 6845 | 6710 |
| 55° | 6122 | 5983 | 5857 |
| 60° | 5158 | 5115 | 5014 |
| 65° | 4462 | 4478 | 4445 |
| 70° | 4098 | 4118 | 4118 |
| 75° | 3935 | 3935 | 3964 |
| 80° | 3702 | 3744 | 3702 |
| 85° | 2985 | 3317 | 3317 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.0 | 3.8 |
| 10°-20° | 369.0 | 10.8 |
| 20°-30° | 556.5 | 16.3 |
| 30°-40° | 663.1 | 19.5 |
| 40°-50° | 653.8 | 19.2 |
| 50°-60° | 499.6 | 14.7 |
| 60°-70° | 309.2 | 9.1 |
| 70°-80° | 175.6 | 5.2 |
| 80°-90° | 53.4 | 1.6 |
| 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° | 1054.4 | 30.9 |
| 0°-40° | 1717.5 | 50.4 |
| 0°-60° | 2870.9 | 84.2 |
| 0°-90° | 3409.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3409.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1364 | 1364 | 1364 | 1364 | 1364 | |
| 5° | 1371 | 1356 | 1360 | 1355 | 1353 | 130 |
| 15° | 1319 | 1305 | 1311 | 1306 | 1304 | 372 |
| 25° | 1223 | 1208 | 1214 | 1202 | 1200 | 563 |
| 35° | 1077 | 1064 | 1068 | 1054 | 1052 | 672 |
| 45° | 872 | 860 | 856 | 841 | 839 | 668 |
| 55° | 571 | 562 | 558 | 548 | 546 | 512 |
| 65° | 307 | 304 | 308 | 305 | 305 | 311 |
| 75° | 166 | 166 | 166 | 167 | 167 | 175 |
| 85° | 42 | 45 | 47 | 47 | 47 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1363.7 | 1363.7 | 1363.7 | 1363.7 | 1363.7 |
| 2.5° | 1372.2 | 1360.2 | 1363.7 | 1360.8 | 1354.3 |
| 5° | 1370.8 | 1355.8 | 1360.2 | 1355.4 | 1353.1 |
| 7.5° | 1360.2 | 1345.5 | 1349.9 | 1345.1 | 1343.7 |
| 10° | 1350.8 | 1337.0 | 1341.4 | 1336.6 | 1334.4 |
| 12.5° | 1340.5 | 1325.8 | 1331.1 | 1325.4 | 1323.1 |
| 15° | 1319.1 | 1305.3 | 1310.9 | 1306.1 | 1303.8 |
| 17.5° | 1295.6 | 1280.9 | 1286.4 | 1281.0 | 1278.0 |
| 20° | 1276.8 | 1263.0 | 1268.6 | 1260.3 | 1259.2 |
| 22.5° | 1256.1 | 1242.3 | 1247.9 | 1236.9 | 1236.6 |
| 25° | 1222.8 | 1207.8 | 1214.5 | 1201.6 | 1200.4 |
| 27.5° | 1183.1 | 1169.3 | 1174.8 | 1161.7 | 1160.3 |
| 30° | 1155.8 | 1142.0 | 1147.6 | 1133.4 | 1131.1 |
| 32.5° | 1124.8 | 1111.9 | 1116.6 | 1102.5 | 1101.1 |
| 35° | 1077.1 | 1064.5 | 1067.7 | 1053.6 | 1052.4 |
| 37.5° | 1022.8 | 1011.4 | 1013.2 | 997.7 | 996.5 |
| 40° | 984.3 | 972.8 | 973.7 | 957.3 | 956.1 |
| 42.5° | 942.0 | 930.5 | 929.6 | 913.1 | 912.0 |
| 45° | 871.6 | 860.1 | 856.3 | 841.0 | 838.7 |
| 47.5° | 791.2 | 779.7 | 772.7 | 760.2 | 758.6 |
| 50° | 733.0 | 721.5 | 715.3 | 704.7 | 701.2 |
| 52.5° | 670.0 | 658.5 | 653.3 | 643.6 | 640.2 |
| 55° | 570.9 | 561.7 | 557.9 | 548.5 | 546.2 |
| 57.5° | 476.7 | 470.5 | 469.4 | 460.2 | 459.3 |
| 60° | 419.3 | 415.9 | 415.8 | 407.6 | 407.6 |
| 62.5° | 370.5 | 367.9 | 369.8 | 364.3 | 363.4 |
| 65° | 306.6 | 304.3 | 307.7 | 305.4 | 305.4 |
| 67.5° | 256.1 | 256.1 | 258.2 | 257.2 | 257.2 |
| 70° | 227.9 | 227.9 | 229.0 | 229.0 | 229.0 |
| 72.5° | 202.5 | 201.6 | 204.6 | 204.6 | 203.7 |
| 75° | 165.6 | 165.6 | 165.6 | 166.8 | 166.8 |
| 77.5° | 129.0 | 129.2 | 130.1 | 129.9 | 129.0 |
| 80° | 104.5 | 105.7 | 105.7 | 104.5 | 104.5 |
| 82.5° | 80.1 | 81.3 | 81.3 | 81.0 | 80.1 |
| 85° | 42.3 | 44.6 | 47.0 | 47.0 | 47.0 |
| 87.5° | 12.2 | 15.9 | 18.8 | 18.8 | 17.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)