

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: P562823

Luminaire Tested: **SQ4-PC3-0U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562823
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

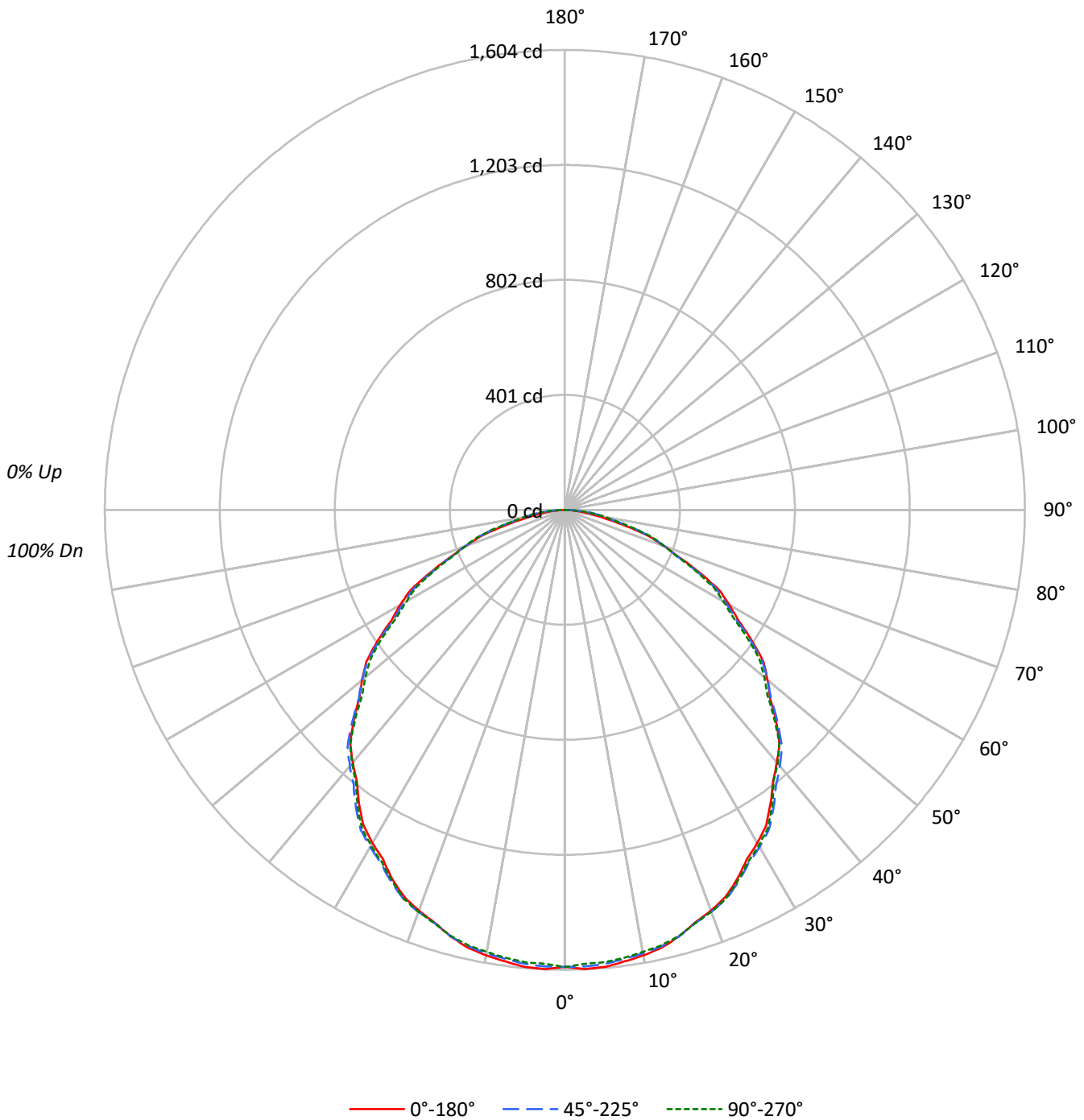
Lumens per Lamp: N/A
Luminaire Lumens: 4350.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 44 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 54 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9806 | 9806 | 9806 |
| 5° | 9879 | 9816 | 9779 |
| 10° | 9855 | 9809 | 9781 |
| 15° | 9804 | 9804 | 9794 |
| 20° | 9739 | 9768 | 9768 |
| 25° | 9647 | 9717 | 9687 |
| 30° | 9530 | 9645 | 9603 |
| 35° | 9388 | 9532 | 9466 |
| 40° | 9233 | 9363 | 9268 |
| 45° | 9065 | 9129 | 8988 |
| 50° | 8828 | 8828 | 8687 |
| 55° | 8548 | 8437 | 8310 |
| 60° | 8135 | 7971 | 7845 |
| 65° | 7519 | 7369 | 7305 |
| 70° | 6584 | 6636 | 6609 |
| 75° | 5297 | 5858 | 5894 |
| 80° | 3765 | 4966 | 5019 |
| 85° | 2294 | 4164 | 4164 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.9 | 3.5 |
| 10°-20° | 433.0 | 10.0 |
| 20°-30° | 655.7 | 15.1 |
| 30°-40° | 786.1 | 18.1 |
| 40°-50° | 801.5 | 18.4 |
| 50°-60° | 699.7 | 16.1 |
| 60°-70° | 500.9 | 11.5 |
| 70°-80° | 258.0 | 5.9 |
| 80°-90° | 65.2 | 1.5 |
| 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° | 1239.5 | 28.5 |
| 0°-40° | 2025.5 | 46.6 |
| 0°-60° | 3526.7 | 81.1 |
| 0°-90° | 4350.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4350.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1594 | 1594 | 1594 | 1594 | 1594 | |
| 5° | 1600 | 1584 | 1590 | 1585 | 1584 | 152 |
| 15° | 1540 | 1527 | 1540 | 1540 | 1538 | 434 |
| 25° | 1422 | 1411 | 1432 | 1427 | 1427 | 654 |
| 35° | 1250 | 1247 | 1269 | 1261 | 1261 | 782 |
| 45° | 1042 | 1039 | 1050 | 1036 | 1033 | 802 |
| 55° | 797 | 787 | 787 | 775 | 775 | 711 |
| 65° | 517 | 505 | 506 | 502 | 502 | 511 |
| 75° | 223 | 233 | 246 | 248 | 248 | 241 |
| 85° | 32 | 50 | 59 | 60 | 59 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 |
| 2.5° | 1603.6 | 1589.8 | 1594.2 | 1590.5 | 1584.7 |
| 5° | 1600.1 | 1584.2 | 1589.8 | 1585.3 | 1583.8 |
| 7.5° | 1588.6 | 1572.7 | 1580.0 | 1577.0 | 1575.6 |
| 10° | 1577.9 | 1562.1 | 1570.6 | 1567.6 | 1566.1 |
| 12.5° | 1563.8 | 1549.1 | 1558.8 | 1555.8 | 1555.5 |
| 15° | 1539.6 | 1526.6 | 1539.6 | 1539.5 | 1538.1 |
| 17.5° | 1509.2 | 1497.3 | 1511.2 | 1512.1 | 1511.2 |
| 20° | 1487.9 | 1474.9 | 1492.3 | 1490.9 | 1492.3 |
| 22.5° | 1461.9 | 1451.2 | 1469.9 | 1466.1 | 1467.5 |
| 25° | 1421.5 | 1411.4 | 1431.8 | 1427.4 | 1427.4 |
| 27.5° | 1373.7 | 1366.4 | 1388.7 | 1384.0 | 1384.0 |
| 30° | 1341.8 | 1334.6 | 1358.0 | 1352.1 | 1352.1 |
| 32.5° | 1306.3 | 1301.4 | 1323.8 | 1316.7 | 1316.7 |
| 35° | 1250.3 | 1247.4 | 1269.4 | 1260.6 | 1260.6 |
| 37.5° | 1192.4 | 1189.8 | 1209.8 | 1199.1 | 1195.6 |
| 40° | 1149.9 | 1148.4 | 1166.1 | 1154.3 | 1154.3 |
| 42.5° | 1107.4 | 1105.9 | 1121.2 | 1107.1 | 1107.1 |
| 45° | 1042.1 | 1039.2 | 1049.5 | 1036.2 | 1033.3 |
| 47.5° | 971.0 | 968.1 | 974.5 | 960.0 | 958.6 |
| 50° | 922.6 | 919.7 | 922.6 | 909.2 | 907.8 |
| 52.5° | 873.0 | 867.8 | 868.2 | 854.9 | 854.7 |
| 55° | 797.1 | 787.0 | 786.8 | 774.9 | 774.9 |
| 57.5° | 716.8 | 703.5 | 704.7 | 694.6 | 693.2 |
| 60° | 661.3 | 646.9 | 648.0 | 639.1 | 637.7 |
| 62.5° | 607.0 | 590.2 | 593.7 | 583.6 | 583.4 |
| 65° | 516.6 | 505.1 | 506.3 | 501.9 | 501.9 |
| 67.5° | 429.8 | 419.2 | 426.9 | 423.3 | 423.0 |
| 70° | 366.1 | 358.9 | 369.0 | 369.0 | 367.5 |
| 72.5° | 307.0 | 306.7 | 319.4 | 319.4 | 320.3 |
| 75° | 222.9 | 233.0 | 246.5 | 248.0 | 248.0 |
| 77.5° | 148.8 | 166.7 | 181.6 | 182.1 | 181.9 |
| 80° | 106.3 | 126.5 | 140.2 | 143.1 | 141.7 |
| 82.5° | 72.0 | 93.4 | 104.8 | 107.7 | 106.3 |
| 85° | 32.5 | 49.8 | 59.0 | 60.5 | 59.0 |
| 87.5° | 9.4 | 19.8 | 23.6 | 23.6 | 21.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)