

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: P563458

Luminaire Tested: **SQ4-PP3-075U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563458
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

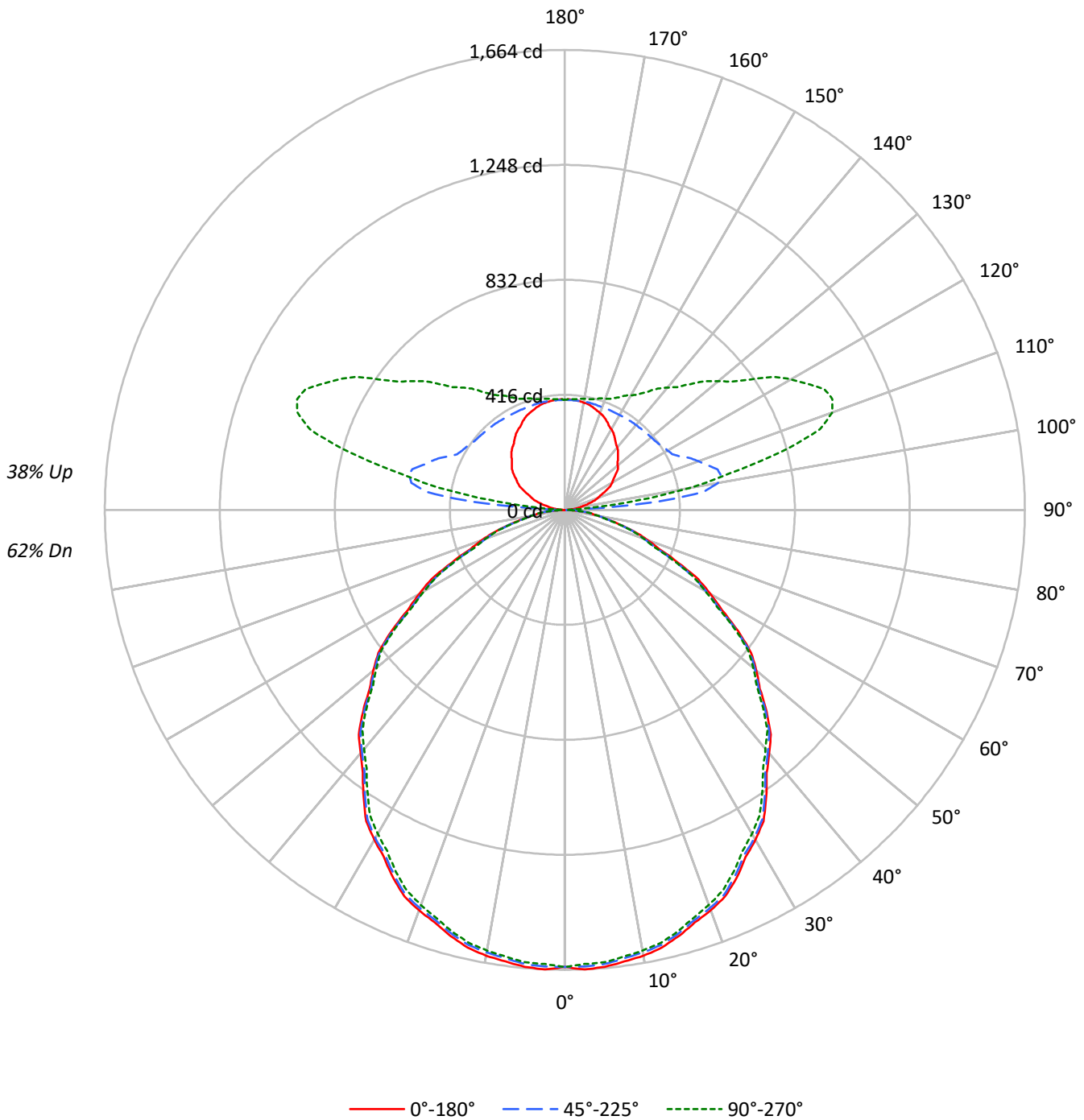
Lumens per Lamp: N/A
Luminaire Lumens: 6835.2 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1 | 101 | 96 | 93 | 89 | 94 | 90 | 87 | 84 | 79 | 77 | 75 | 69 | 67 | 66 | 60 | 58 | 57 | 53 |
| 2 | 92 | 84 | 78 | 73 | 86 | 79 | 74 | 69 | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 51 | 49 | 45 |
| 3 | 84 | 74 | 67 | 61 | 78 | 70 | 63 | 58 | 62 | 57 | 52 | 54 | 50 | 47 | 47 | 44 | 42 | 38 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 50 | 55 | 49 | 45 | 48 | 44 | 40 | 42 | 39 | 36 | 33 |
| 5 | 71 | 59 | 51 | 45 | 66 | 56 | 48 | 43 | 49 | 43 | 39 | 43 | 39 | 35 | 38 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 44 | 38 | 34 | 39 | 34 | 31 | 34 | 31 | 28 | 25 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 36 | 31 | 27 | 31 | 28 | 25 | 22 |
| 8 | 56 | 44 | 36 | 30 | 52 | 41 | 34 | 29 | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15258 | 15258 | 15258 |
| 5° | 15370 | 15277 | 15223 |
| 10° | 15345 | 15236 | 15169 |
| 15° | 15244 | 15160 | 15077 |
| 20° | 15142 | 15056 | 14943 |
| 25° | 14963 | 14859 | 14711 |
| 30° | 14685 | 14608 | 14423 |
| 35° | 14301 | 14203 | 14024 |
| 40° | 13843 | 13757 | 13599 |
| 45° | 13465 | 13371 | 13238 |
| 50° | 12983 | 12899 | 12775 |
| 55° | 12310 | 12148 | 12054 |
| 60° | 11206 | 10885 | 10832 |
| 65° | 9872 | 9462 | 9429 |
| 70° | 8524 | 8171 | 8171 |
| 75° | 7336 | 7233 | 7129 |
| 80° | 6471 | 6546 | 6392 |
| 85° | 5060 | 5526 | 5526 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.4 | 2.3 |
| 10°-20° | 446.5 | 6.5 |
| 20°-30° | 668.8 | 9.8 |
| 30°-40° | 784.5 | 11.5 |
| 40°-50° | 787.0 | 11.5 |
| 50°-60° | 671.4 | 9.8 |
| 60°-70° | 437.8 | 6.4 |
| 70°-80° | 219.7 | 3.2 |
| 80°-90° | 61.8 | 0.9 |
| 90°-100° | 188.3 | 2.8 |
| 100°-110° | 518.1 | 7.6 |
| 110°-120° | 534.8 | 7.8 |
| 120°-130° | 428.5 | 6.3 |
| 130°-140° | 336.5 | 4.9 |
| 140°-150° | 257.9 | 3.8 |
| 150°-160° | 185.4 | 2.7 |
| 160°-170° | 113.4 | 1.7 |
| 170°-180° | 38.2 | 0.6 |
| 0°-30° | 1271.8 | 18.6 |
| 0°-40° | 2056.3 | 30.1 |
| 0°-60° | 3514.6 | 51.4 |
| 0°-90° | 4233.9 | 61.9 |
| 90°-120° | 1241.3 | 18.2 |
| 90°-150° | 2264.2 | 33.1 |
| 90°-180° | 2601.0 | 38.1 |
| 0°-180° | 6835.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1654 | 1654 | 1654 | 1654 | 1654 | |
| 5° | 1660 | 1644 | 1650 | 1644 | 1644 | 158 |
| 15° | 1596 | 1580 | 1587 | 1581 | 1578 | 450 |
| 25° | 1470 | 1453 | 1460 | 1446 | 1445 | 676 |
| 35° | 1270 | 1257 | 1261 | 1246 | 1245 | 793 |
| 45° | 1032 | 1025 | 1025 | 1015 | 1015 | 795 |
| 55° | 765 | 762 | 755 | 751 | 749 | 680 |
| 65° | 452 | 444 | 433 | 430 | 432 | 451 |
| 75° | 206 | 206 | 203 | 201 | 200 | 223 |
| 85° | 48 | 52 | 52 | 52 | 52 | 56 |
| 90° | 1 | 3 | 6 | 8 | 8 | 4 |
| 95° | 28 | 103 | 333 | 142 | 91 | 30 |
| 105° | 93 | 142 | 571 | 870 | 811 | 98 |
| 115° | 164 | 200 | 458 | 912 | 1035 | 162 |
| 125° | 226 | 258 | 415 | 703 | 823 | 202 |
| 135° | 273 | 303 | 404 | 568 | 643 | 210 |
| 145° | 315 | 337 | 398 | 484 | 522 | 198 |
| 155° | 357 | 368 | 395 | 435 | 448 | 164 |
| 165° | 386 | 391 | 397 | 413 | 415 | 109 |
| 175° | 399 | 400 | 398 | 403 | 402 | 38 |
| 180° | 399 | 399 | 399 | 399 | 399 | |

TEST NUMBER: P563458

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1653.8 | 1653.8 | 1653.8 | 1653.8 | 1653.8 |
| 2.5° | 1664.3 | 1650.7 | 1653.8 | 1651.4 | 1644.6 |
| 5° | 1659.6 | 1644.1 | 1649.5 | 1643.7 | 1643.7 |
| 7.5° | 1648.3 | 1631.3 | 1636.7 | 1630.9 | 1630.7 |
| 10° | 1637.9 | 1620.9 | 1626.3 | 1620.5 | 1619.1 |
| 12.5° | 1622.8 | 1605.8 | 1612.4 | 1605.4 | 1605.1 |
| 15° | 1595.9 | 1580.3 | 1587.2 | 1581.3 | 1578.5 |
| 17.5° | 1565.4 | 1548.4 | 1556.7 | 1548.6 | 1547.5 |
| 20° | 1542.2 | 1525.2 | 1533.5 | 1521.9 | 1521.9 |
| 22.5° | 1514.4 | 1497.4 | 1506.9 | 1491.8 | 1491.8 |
| 25° | 1469.8 | 1452.8 | 1459.6 | 1446.5 | 1445.1 |
| 27.5° | 1416.7 | 1400.0 | 1407.1 | 1392.4 | 1392.1 |
| 30° | 1378.4 | 1362.9 | 1371.2 | 1355.2 | 1353.8 |
| 32.5° | 1336.7 | 1322.2 | 1328.3 | 1312.3 | 1310.9 |
| 35° | 1269.7 | 1257.0 | 1261.0 | 1246.5 | 1245.1 |
| 37.5° | 1199.3 | 1186.3 | 1190.9 | 1178.4 | 1177.8 |
| 40° | 1149.4 | 1140.9 | 1142.2 | 1132.0 | 1129.1 |
| 42.5° | 1103.0 | 1093.4 | 1094.6 | 1084.5 | 1083.9 |
| 45° | 1032.0 | 1024.9 | 1024.8 | 1014.6 | 1014.6 |
| 47.5° | 956.7 | 951.3 | 949.7 | 941.3 | 941.0 |
| 50° | 904.5 | 900.2 | 898.7 | 891.4 | 890.0 |
| 52.5° | 850.0 | 848.0 | 843.0 | 836.9 | 836.6 |
| 55° | 765.3 | 762.5 | 755.2 | 750.8 | 749.4 |
| 57.5° | 673.4 | 667.8 | 659.5 | 653.2 | 654.3 |
| 60° | 607.3 | 601.7 | 589.9 | 587.0 | 587.0 |
| 62.5° | 543.6 | 536.7 | 525.0 | 521.0 | 523.3 |
| 65° | 452.2 | 443.7 | 433.4 | 430.5 | 431.9 |
| 67.5° | 369.3 | 361.7 | 350.5 | 350.5 | 349.3 |
| 70° | 316.0 | 311.7 | 302.9 | 302.9 | 302.9 |
| 72.5° | 268.4 | 266.5 | 260.0 | 260.0 | 258.9 |
| 75° | 205.8 | 205.8 | 202.9 | 201.4 | 200.0 |
| 77.5° | 154.2 | 154.8 | 153.4 | 151.8 | 149.3 |
| 80° | 121.8 | 124.6 | 123.2 | 121.7 | 120.3 |
| 82.5° | 91.6 | 94.4 | 94.2 | 91.6 | 91.3 |
| 85° | 47.8 | 52.1 | 52.2 | 52.2 | 52.2 |
| 87.5° | 12.9 | 18.0 | 19.7 | 20.1 | 21.2 |
| 90° | 0.8 | 3.3 | 5.9 | 7.6 | 7.6 |
| 92.5° | 11.7 | 50.1 | 86.8 | 33.3 | 27.4 |
| 95° | 28.0 | 102.8 | 333.0 | 142.4 | 90.9 |
| 97.5° | 45.7 | 114.0 | 508.2 | 391.6 | 276.3 |
| 100° | 58.6 | 120.9 | 563.3 | 568.5 | 463.9 |
| 102.5° | 70.9 | 129.2 | 577.5 | 705.3 | 609.3 |
| 105° | 92.6 | 142.4 | 570.9 | 869.5 | 811.3 |
| 107.5° | 113.3 | 158.9 | 538.5 | 949.9 | 967.2 |
| 110° | 128.3 | 169.8 | 514.0 | 969.9 | 1029.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 141.9 | 182.1 | 489.5 | 957.0 | 1048.0 |
| 115° | 164.0 | 199.7 | 457.9 | 911.8 | 1034.8 |
| 117.5° | 185.0 | 217.9 | 437.9 | 848.5 | 987.5 |
| 120° | 198.0 | 229.5 | 429.0 | 801.0 | 944.7 |
| 122.5° | 209.5 | 241.1 | 422.9 | 759.4 | 895.8 |
| 125° | 226.0 | 257.6 | 415.4 | 702.8 | 823.2 |
| 127.5° | 241.6 | 271.7 | 410.5 | 655.6 | 761.2 |
| 130° | 249.8 | 280.5 | 407.8 | 627.5 | 723.8 |
| 132.5° | 259.3 | 290.0 | 405.8 | 602.8 | 689.9 |
| 135° | 272.7 | 302.6 | 403.5 | 568.4 | 643.1 |
| 137.5° | 285.3 | 313.0 | 401.7 | 540.5 | 602.2 |
| 140° | 294.8 | 320.6 | 401.0 | 522.1 | 577.7 |
| 142.5° | 303.0 | 326.7 | 399.6 | 505.6 | 553.2 |
| 145° | 315.2 | 336.8 | 397.6 | 484.3 | 521.6 |
| 147.5° | 328.3 | 346.9 | 396.6 | 465.4 | 495.3 |
| 150° | 336.4 | 353.0 | 395.9 | 455.1 | 478.3 |
| 152.5° | 343.9 | 359.2 | 395.2 | 446.1 | 465.4 |
| 155° | 356.8 | 368.5 | 395.1 | 435.3 | 447.7 |
| 157.5° | 366.2 | 375.6 | 395.1 | 426.3 | 435.0 |
| 160° | 373.0 | 380.4 | 395.1 | 421.5 | 428.2 |
| 162.5° | 378.4 | 384.5 | 395.7 | 417.4 | 422.7 |
| 165° | 385.7 | 390.7 | 396.8 | 412.9 | 415.4 |
| 167.5° | 390.8 | 394.6 | 397.6 | 409.2 | 409.8 |
| 170° | 394.2 | 396.7 | 397.6 | 407.8 | 407.8 |
| 172.5° | 396.9 | 398.1 | 397.6 | 405.7 | 405.1 |
| 175° | 399.3 | 400.1 | 397.6 | 402.7 | 401.8 |
| 177.5° | 400.0 | 400.0 | 397.3 | 401.3 | 400.0 |
| 180° | 399.3 | 399.3 | 399.3 | 399.3 | 399.3 |

(END OF REPORT)