

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: P563362

Luminaire Tested: **SQ4-PP3-050U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563362
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-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

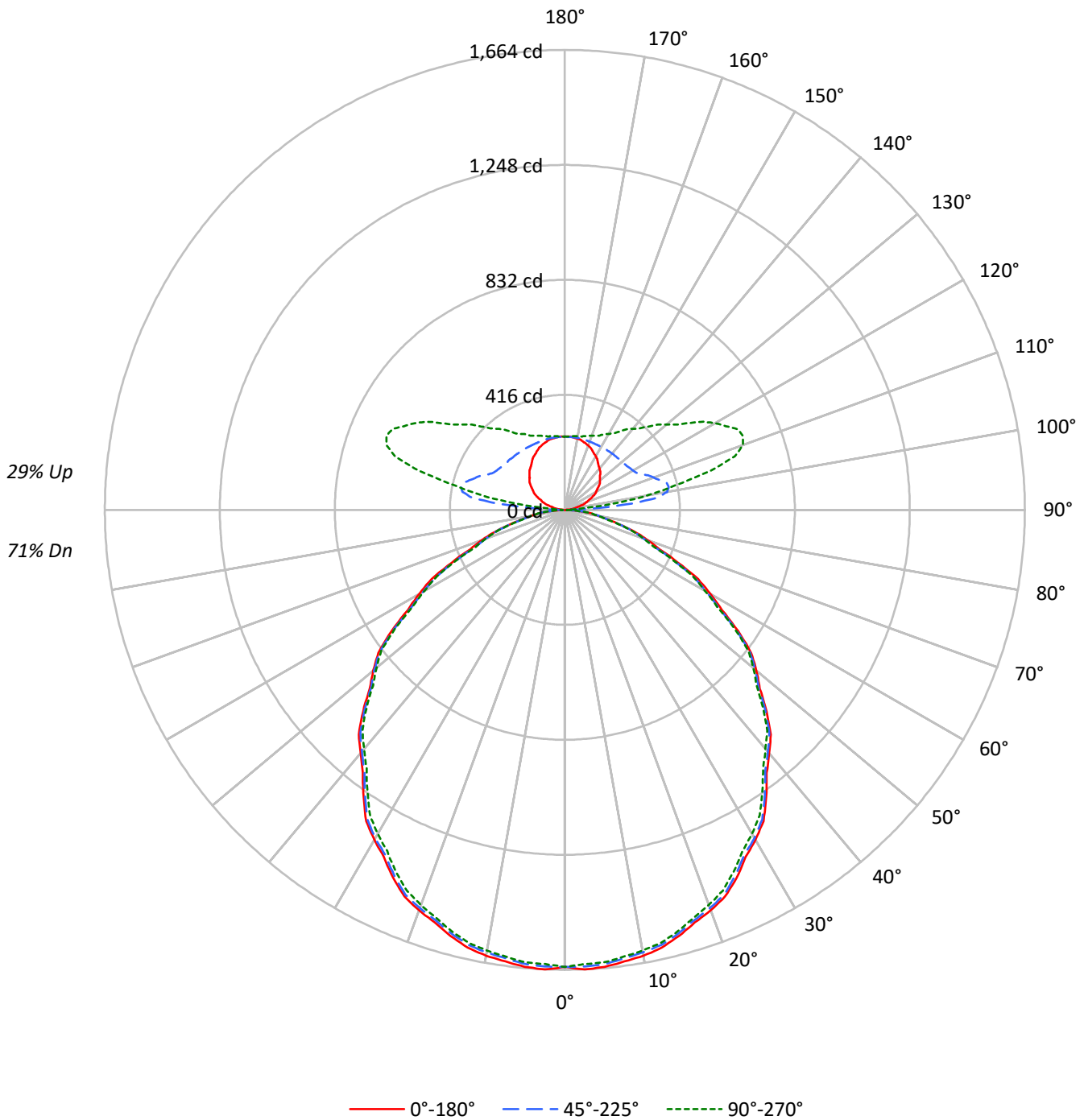
Lumens per Lamp: N/A
Luminaire Lumens: 5964.7 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 71 |
| 1 | 103 | 98 | 95 | 91 | 97 | 93 | 90 | 87 | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 66 | 64 | 60 |
| 2 | 94 | 86 | 80 | 75 | 89 | 82 | 76 | 72 | 74 | 69 | 66 | 66 | 63 | 60 | 59 | 57 | 55 | 51 |
| 3 | 86 | 76 | 69 | 63 | 81 | 72 | 66 | 60 | 65 | 60 | 56 | 59 | 55 | 51 | 53 | 50 | 47 | 43 |
| 4 | 79 | 68 | 59 | 53 | 74 | 64 | 57 | 51 | 58 | 52 | 48 | 53 | 48 | 44 | 47 | 44 | 40 | 37 |
| 5 | 72 | 60 | 52 | 46 | 68 | 58 | 50 | 44 | 52 | 46 | 41 | 47 | 42 | 38 | 43 | 39 | 35 | 33 |
| 6 | 67 | 54 | 46 | 40 | 63 | 52 | 44 | 39 | 47 | 41 | 36 | 43 | 38 | 34 | 39 | 34 | 31 | 29 |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 43 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 28 | 25 |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 29 | 36 | 31 | 27 | 33 | 28 | 25 | 23 |
| 9 | 54 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 22 | 20 |
| 10 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 25 | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 19 |

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 |



TEST NUMBER: P563362

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.4 | 2.6 |
| 10°-20° | 446.5 | 7.5 |
| 20°-30° | 668.8 | 11.2 |
| 30°-40° | 784.5 | 13.2 |
| 40°-50° | 787.0 | 13.2 |
| 50°-60° | 671.4 | 11.3 |
| 60°-70° | 437.8 | 7.3 |
| 70°-80° | 219.7 | 3.7 |
| 80°-90° | 61.8 | 1.0 |
| 90°-100° | 127.2 | 2.1 |
| 100°-110° | 345.7 | 5.8 |
| 110°-120° | 355.4 | 6.0 |
| 120°-130° | 284.2 | 4.8 |
| 130°-140° | 223.3 | 3.7 |
| 140°-150° | 171.2 | 2.9 |
| 150°-160° | 123.1 | 2.1 |
| 160°-170° | 75.3 | 1.3 |
| 170°-180° | 25.4 | 0.4 |
| 0°-30° | 1271.8 | 21.3 |
| 0°-40° | 2056.3 | 34.5 |
| 0°-60° | 3514.6 | 58.9 |
| 0°-90° | 4233.9 | 71.0 |
| 90°-120° | 828.3 | 13.9 |
| 90°-150° | 1507.0 | 25.3 |
| 90°-180° | 1731.0 | 29.0 |
| 0°-180° | 5964.7 | 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 | 3 |
| 95° | 19 | 70 | 222 | 96 | 65 | 20 |
| 105° | 61 | 96 | 380 | 579 | 545 | 65 |
| 115° | 109 | 132 | 304 | 605 | 690 | 108 |
| 125° | 150 | 171 | 275 | 464 | 547 | 134 |
| 135° | 181 | 201 | 268 | 378 | 426 | 140 |
| 145° | 209 | 224 | 264 | 321 | 345 | 131 |
| 155° | 236 | 244 | 262 | 288 | 297 | 109 |
| 165° | 256 | 259 | 263 | 274 | 275 | 72 |
| 175° | 265 | 266 | 264 | 268 | 267 | 25 |
| 180° | 265 | 265 | 265 | 265 | 265 | |

TEST NUMBER: P563362

CATALOG NUMBER: SQ4-PP3-050U-125D-935-1D-UNV-STD-W-4

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° | 0.9 | 3.4 | 6.0 | 7.7 | 7.7 |
| 92.5° | 7.7 | 34.8 | 60.5 | 26.0 | 22.0 |
| 95° | 18.8 | 69.6 | 221.6 | 96.4 | 64.8 |
| 97.5° | 31.0 | 76.9 | 339.7 | 264.3 | 185.6 |
| 100° | 39.2 | 81.7 | 375.9 | 381.0 | 307.7 |
| 102.5° | 47.4 | 86.6 | 385.4 | 471.2 | 406.6 |
| 105° | 61.4 | 95.5 | 380.1 | 578.8 | 544.6 |
| 107.5° | 75.9 | 106.0 | 358.2 | 634.4 | 643.9 |
| 110° | 86.1 | 113.6 | 341.8 | 645.3 | 686.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 95.0 | 121.1 | 325.4 | 636.2 | 697.7 |
| 115° | 109.1 | 132.4 | 304.3 | 605.4 | 689.5 |
| 117.5° | 122.4 | 144.7 | 290.8 | 561.6 | 656.5 |
| 120° | 131.3 | 152.9 | 284.7 | 532.3 | 626.5 |
| 122.5° | 138.8 | 160.4 | 280.6 | 502.9 | 593.7 |
| 125° | 150.0 | 170.8 | 275.3 | 463.9 | 547.2 |
| 127.5° | 160.1 | 180.7 | 272.4 | 434.3 | 505.8 |
| 130° | 166.2 | 186.2 | 271.0 | 415.7 | 479.9 |
| 132.5° | 172.3 | 192.3 | 269.7 | 399.8 | 456.7 |
| 135° | 180.7 | 200.7 | 267.6 | 377.8 | 426.2 |
| 137.5° | 189.7 | 207.9 | 266.6 | 358.4 | 399.1 |
| 140° | 195.2 | 212.7 | 265.9 | 346.0 | 382.7 |
| 142.5° | 200.6 | 216.8 | 265.2 | 336.3 | 367.0 |
| 145° | 208.8 | 223.8 | 264.2 | 321.0 | 345.2 |
| 147.5° | 218.0 | 230.9 | 263.4 | 309.0 | 328.0 |
| 150° | 224.2 | 235.0 | 263.4 | 302.1 | 317.1 |
| 152.5° | 228.9 | 238.4 | 262.7 | 295.9 | 308.2 |
| 155° | 236.1 | 244.4 | 262.5 | 288.3 | 296.6 |
| 157.5° | 243.1 | 249.6 | 262.5 | 283.1 | 289.5 |
| 160° | 247.2 | 253.0 | 262.5 | 279.7 | 284.7 |
| 162.5° | 251.3 | 255.8 | 263.2 | 276.9 | 280.6 |
| 165° | 255.7 | 259.0 | 263.4 | 274.5 | 275.3 |
| 167.5° | 260.3 | 262.0 | 264.2 | 271.6 | 272.2 |
| 170° | 261.7 | 263.3 | 264.2 | 270.2 | 270.2 |
| 172.5° | 263.0 | 264.0 | 264.2 | 268.8 | 268.8 |
| 175° | 265.1 | 265.9 | 264.2 | 267.6 | 266.8 |
| 177.5° | 265.8 | 265.8 | 263.7 | 266.4 | 265.1 |
| 180° | 265.1 | 265.1 | 265.1 | 265.1 | 265.1 |

(END OF REPORT)