

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845010

Luminaire Tested: **SQ4P-PC3-075U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845010
REPORT IS A COMBINATION OF REPORTS P700226 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-075U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

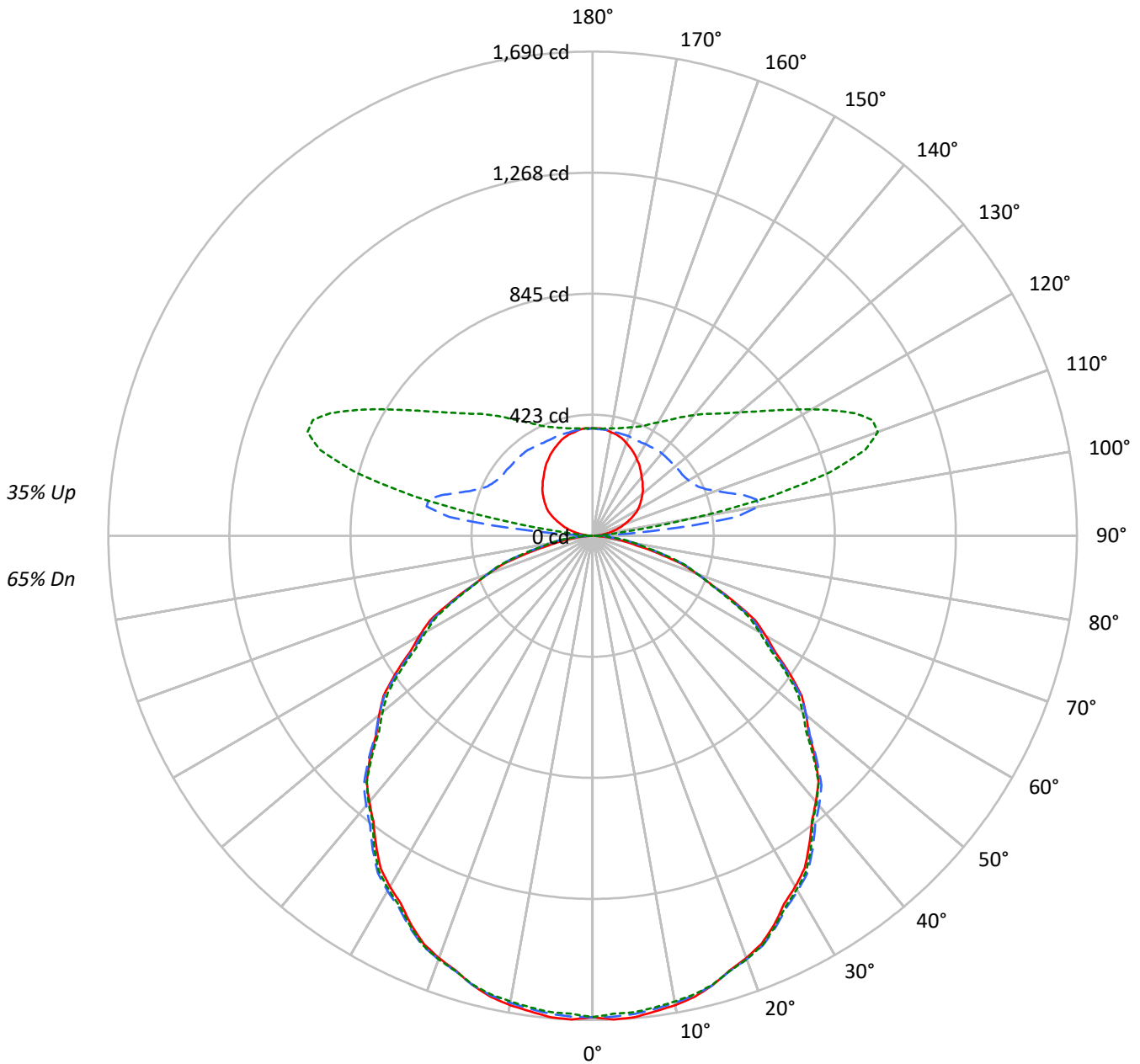
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7023.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P845010
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Luminous Intensity Polar Plot





TEST NUMBER: P845010

CATALOG NUMBER: SQ4P-PC3-075U-125D-B40-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 70 | 70 | 70 | 65 | | | | | | | | | | | | | | | | | | | |
| 1 | 101 | 97 | 93 | 89 | 95 | 91 | 88 | 85 | 81 | 78 | 76 | 71 | 69 | 67 | 62 | 61 | 59 | 55 | | | | | | | | | | | | | | | | | | | |
| 2 | 92 | 85 | 78 | 73 | 86 | 80 | 74 | 70 | 71 | 66 | 63 | 62 | 59 | 56 | 55 | 52 | 50 | 46 | | | | | | | | | | | | | | | | | | | |
| 3 | 84 | 74 | 67 | 61 | 79 | 70 | 64 | 58 | 62 | 57 | 53 | 55 | 51 | 48 | 48 | 45 | 43 | 39 | | | | | | | | | | | | | | | | | | | |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 49 | 55 | 50 | 45 | 49 | 45 | 41 | 43 | 40 | 37 | 34 | | | | | | | | | | | | | | | | | | | |
| 5 | 71 | 59 | 50 | 44 | 66 | 56 | 48 | 42 | 50 | 44 | 39 | 44 | 39 | 35 | 39 | 35 | 32 | 29 | | | | | | | | | | | | | | | | | | | |
| 6 | 65 | 53 | 44 | 38 | 61 | 50 | 42 | 37 | 45 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 25 | | | | | | | | | | | | | | | | | | | |
| 7 | 60 | 48 | 39 | 34 | 57 | 45 | 38 | 32 | 41 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 22 | | | | | | | | | | | | | | | | | | | |
| 8 | 56 | 43 | 35 | 30 | 53 | 41 | 34 | 29 | 37 | 31 | 27 | 33 | 28 | 24 | 30 | 25 | 22 | 20 | | | | | | | | | | | | | | | | | | | |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 | | | | | | | | | | | | | | | | | | | |
| 10 | 49 | 36 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15501 | 15501 | 15501 |
| 5° | 15620 | 15518 | 15460 |
| 10° | 15582 | 15510 | 15464 |
| 15° | 15499 | 15499 | 15483 |
| 20° | 15397 | 15442 | 15442 |
| 25° | 15253 | 15362 | 15316 |
| 30° | 15065 | 15247 | 15181 |
| 35° | 14843 | 15069 | 14963 |
| 40° | 14595 | 14803 | 14654 |
| 45° | 14332 | 14433 | 14209 |
| 50° | 13957 | 13957 | 13735 |
| 55° | 13515 | 13338 | 13139 |
| 60° | 12861 | 12603 | 12400 |
| 65° | 11885 | 11651 | 11544 |
| 70° | 10410 | 10491 | 10453 |
| 75° | 8374 | 9265 | 9322 |
| 80° | 5956 | 7853 | 7933 |
| 85° | 3631 | 6584 | 6584 |



TEST NUMBER: P845010

CATALOG NUMBER: SQ4P-PC3-075U-125D-B40-1D-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.0 | 2.3 |
| 10°-20° | 456.3 | 6.5 |
| 20°-30° | 691.0 | 9.8 |
| 30°-40° | 828.5 | 11.8 |
| 40°-50° | 844.7 | 12.0 |
| 50°-60° | 737.4 | 10.5 |
| 60°-70° | 527.9 | 7.5 |
| 70°-80° | 272.0 | 3.9 |
| 80°-90° | 69.7 | 1.0 |
| 90°-100° | 149.4 | 2.1 |
| 100°-110° | 519.9 | 7.4 |
| 110°-120° | 503.6 | 7.2 |
| 120°-130° | 395.1 | 5.6 |
| 130°-140° | 312.7 | 4.5 |
| 140°-150° | 241.3 | 3.4 |
| 150°-160° | 173.0 | 2.5 |
| 160°-170° | 105.8 | 1.5 |
| 170°-180° | 35.8 | 0.5 |
| 0°-30° | 1306.4 | 18.6 |
| 0°-40° | 2134.8 | 30.4 |
| 0°-60° | 3717.0 | 52.9 |
| 0°-90° | 4586.5 | 65.3 |
| 90°-120° | 1172.9 | 16.7 |
| 90°-150° | 2122.0 | 30.2 |
| 90°-180° | 2437.0 | 34.7 |
| 0°-180° | 7023.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1680 | 1680 | 1680 | 1680 | 1680 | |
| 5° | 1687 | 1670 | 1676 | 1671 | 1669 | 160 |
| 15° | 1623 | 1609 | 1623 | 1623 | 1621 | 458 |
| 25° | 1498 | 1488 | 1509 | 1504 | 1504 | 690 |
| 35° | 1318 | 1314 | 1338 | 1328 | 1328 | 824 |
| 45° | 1098 | 1095 | 1106 | 1092 | 1089 | 845 |
| 55° | 840 | 829 | 829 | 817 | 817 | 749 |
| 65° | 544 | 532 | 534 | 529 | 529 | 538 |
| 75° | 235 | 246 | 260 | 262 | 262 | 254 |
| 85° | 34 | 52 | 62 | 64 | 62 | 47 |
| 90° | 6 | 8 | 8 | 6 | 3 | 5 |
| 95° | 25 | 87 | 252 | 64 | 39 | 27 |
| 105° | 87 | 123 | 546 | 922 | 857 | 91 |
| 115° | 151 | 182 | 406 | 857 | 1011 | 149 |
| 125° | 205 | 252 | 378 | 639 | 762 | 183 |
| 135° | 246 | 277 | 375 | 532 | 602 | 191 |
| 145° | 289 | 308 | 373 | 460 | 499 | 181 |
| 155° | 328 | 339 | 367 | 409 | 423 | 151 |
| 165° | 359 | 362 | 370 | 387 | 390 | 101 |
| 175° | 375 | 375 | 373 | 378 | 375 | 36 |
| 180° | 375 | 375 | 375 | 375 | 375 | |



TEST NUMBER: P845010

CATALOG NUMBER: SQ4P-PC3-075U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1680.1 | 1680.1 | 1680.1 | 1680.1 | 1680.1 |
| 2.5° | 1690.2 | 1675.5 | 1680.1 | 1676.3 | 1670.2 |
| 5° | 1686.6 | 1669.6 | 1675.5 | 1670.7 | 1669.3 |
| 7.5° | 1674.2 | 1657.6 | 1665.3 | 1662.1 | 1660.5 |
| 10° | 1663.2 | 1646.2 | 1655.5 | 1652.2 | 1650.6 |
| 12.5° | 1648.2 | 1632.6 | 1642.9 | 1639.8 | 1639.4 |
| 15° | 1622.7 | 1609.0 | 1622.7 | 1622.7 | 1621.0 |
| 17.5° | 1590.5 | 1578.2 | 1592.7 | 1593.7 | 1592.7 |
| 20° | 1568.2 | 1554.6 | 1572.8 | 1571.2 | 1572.8 |
| 22.5° | 1540.9 | 1529.7 | 1549.2 | 1545.2 | 1546.8 |
| 25° | 1498.3 | 1487.5 | 1509.0 | 1504.5 | 1504.5 |
| 27.5° | 1447.9 | 1440.0 | 1463.7 | 1458.5 | 1458.5 |
| 30° | 1414.1 | 1406.6 | 1431.2 | 1425.0 | 1425.0 |
| 32.5° | 1376.7 | 1371.7 | 1395.3 | 1387.8 | 1387.8 |
| 35° | 1317.8 | 1314.5 | 1337.9 | 1328.5 | 1328.5 |
| 37.5° | 1256.7 | 1254.0 | 1275.2 | 1263.9 | 1260.2 |
| 40° | 1211.8 | 1210.6 | 1229.1 | 1216.7 | 1216.7 |
| 42.5° | 1167.0 | 1165.5 | 1181.9 | 1166.8 | 1166.8 |
| 45° | 1098.4 | 1095.2 | 1106.2 | 1091.9 | 1089.0 |
| 47.5° | 1023.3 | 1020.4 | 1027.1 | 1011.8 | 1010.2 |
| 50° | 972.4 | 969.2 | 972.4 | 958.2 | 956.9 |
| 52.5° | 920.1 | 914.5 | 915.0 | 901.0 | 900.7 |
| 55° | 840.2 | 829.4 | 829.2 | 816.8 | 816.8 |
| 57.5° | 755.4 | 741.5 | 742.8 | 732.1 | 730.5 |
| 60° | 697.0 | 681.6 | 683.0 | 673.6 | 672.0 |
| 62.5° | 639.6 | 622.1 | 625.6 | 615.2 | 614.9 |
| 65° | 544.4 | 532.3 | 533.7 | 528.8 | 528.8 |
| 67.5° | 452.9 | 441.7 | 450.0 | 446.3 | 446.0 |
| 70° | 385.9 | 378.1 | 388.9 | 388.9 | 387.5 |
| 72.5° | 323.7 | 323.4 | 336.6 | 336.6 | 337.6 |
| 75° | 234.9 | 245.7 | 259.9 | 261.5 | 261.5 |
| 77.5° | 156.9 | 175.7 | 191.5 | 192.0 | 191.8 |
| 80° | 112.1 | 133.2 | 147.8 | 151.0 | 149.3 |
| 82.5° | 75.9 | 98.5 | 110.5 | 113.5 | 112.1 |
| 85° | 34.3 | 52.5 | 62.2 | 63.9 | 62.2 |
| 87.5° | 9.9 | 20.9 | 24.9 | 24.9 | 22.5 |
| 90° | 5.6 | 8.4 | 8.4 | 5.6 | 2.8 |
| 92.5° | 14.1 | 42.1 | 39.2 | 16.8 | 14.1 |
| 95° | 25.2 | 86.8 | 252.2 | 64.4 | 39.2 |
| 97.5° | 39.2 | 98.1 | 504.3 | 229.8 | 123.3 |
| 100° | 53.2 | 103.7 | 588.3 | 552.0 | 355.8 |
| 102.5° | 70.1 | 112.0 | 585.6 | 776.1 | 638.8 |
| 105° | 86.8 | 123.3 | 546.4 | 921.8 | 857.3 |



TEST NUMBER: P845010

CATALOG NUMBER: SQ4P-PC3-075U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 134.5 | 165.3 | 425.9 | 927.4 | 1056.3 |
| 115° | 151.3 | 182.1 | 406.2 | 857.3 | 1011.4 |
| 117.5° | 168.1 | 201.8 | 395.1 | 792.9 | 947.0 |
| 120° | 182.1 | 218.5 | 386.7 | 731.3 | 882.5 |
| 122.5° | 193.3 | 235.4 | 381.0 | 680.9 | 818.1 |
| 125° | 204.6 | 252.2 | 378.2 | 638.8 | 762.1 |
| 127.5° | 215.7 | 263.4 | 378.2 | 608.0 | 711.7 |
| 130° | 227.0 | 269.0 | 375.4 | 577.2 | 669.6 |
| 132.5° | 238.1 | 271.7 | 375.4 | 554.8 | 633.2 |
| 135° | 246.5 | 277.3 | 375.4 | 532.3 | 602.4 |
| 137.5° | 257.8 | 283.0 | 375.4 | 512.7 | 577.2 |
| 140° | 266.2 | 291.4 | 375.4 | 493.1 | 549.2 |
| 142.5° | 277.3 | 299.8 | 375.4 | 473.5 | 523.9 |
| 145° | 288.6 | 308.2 | 372.6 | 459.5 | 498.7 |
| 147.5° | 299.8 | 316.6 | 369.8 | 445.5 | 476.3 |
| 150° | 308.2 | 325.0 | 369.8 | 431.4 | 456.7 |
| 152.5° | 319.4 | 333.4 | 367.0 | 417.5 | 439.9 |
| 155° | 327.8 | 339.0 | 367.0 | 409.0 | 423.1 |
| 157.5° | 336.2 | 347.4 | 367.0 | 400.6 | 411.9 |
| 160° | 344.6 | 353.0 | 369.8 | 395.1 | 403.4 |
| 162.5° | 353.0 | 358.7 | 369.8 | 389.5 | 395.1 |
| 165° | 358.7 | 361.5 | 369.8 | 386.7 | 389.5 |
| 167.5° | 364.3 | 367.0 | 369.8 | 383.8 | 383.8 |
| 170° | 367.0 | 369.8 | 372.6 | 381.0 | 381.0 |
| 172.5° | 372.6 | 372.6 | 372.6 | 378.2 | 378.2 |
| 175° | 375.4 | 375.4 | 372.6 | 378.2 | 375.4 |
| 177.5° | 375.4 | 375.4 | 372.6 | 378.2 | 375.4 |
| 180° | 375.4 | 375.4 | 375.4 | 375.4 | 375.4 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|-------|-------|-------|-------|--------|
| 107.5° | 103.7 | 137.3 | 495.9 | 986.2 | 997.5 |
| 110° | 117.6 | 151.3 | 456.7 | 977.8 | 1059.1 |



(END OF REPORT)