

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: P845023

Luminaire Tested: **SQ4P-PC3-0U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-0U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

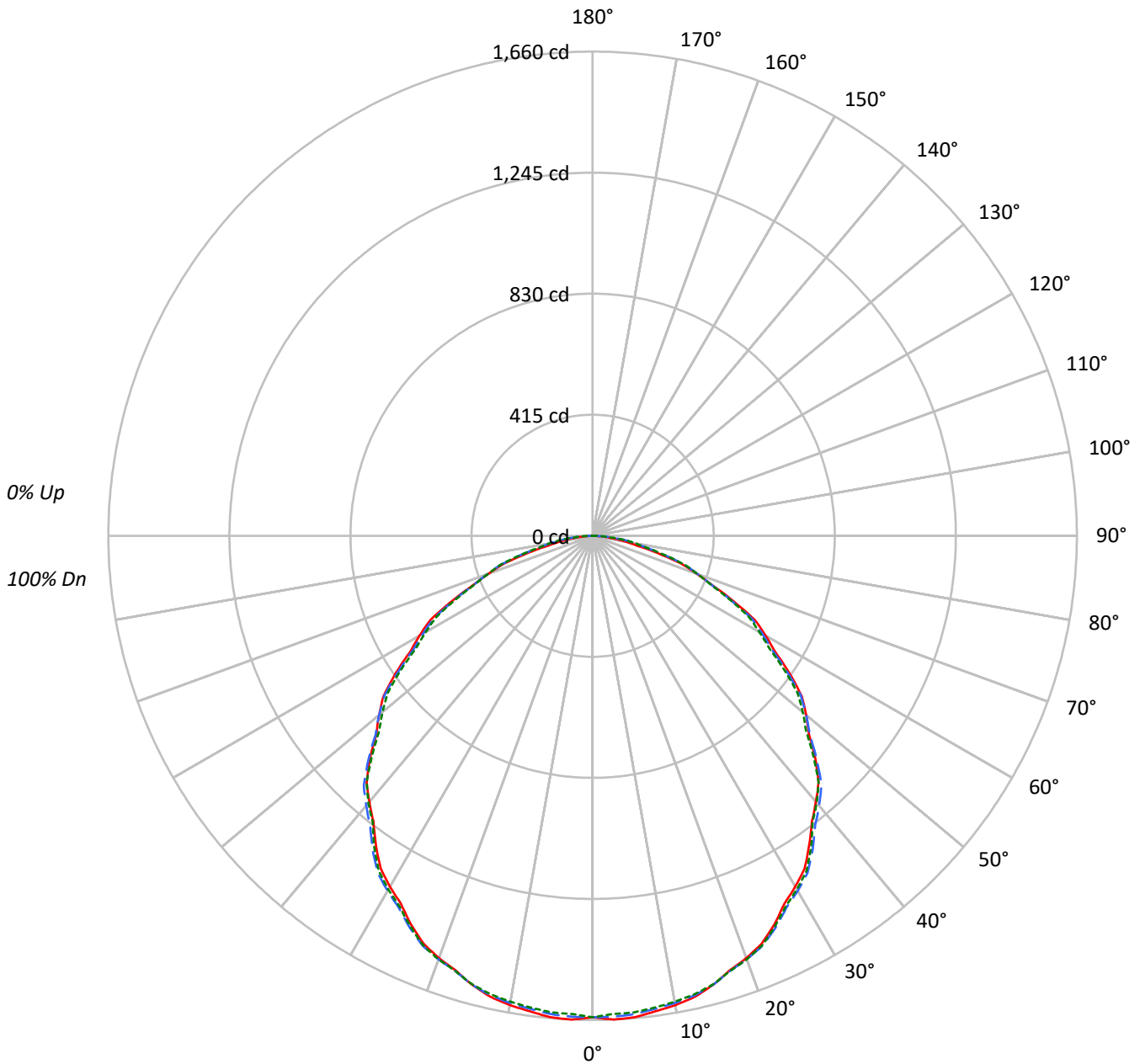
Lumens per Lamp: N/A
Luminaire Lumens: 4505.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.8
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: P845023

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Luminous Intensity Polar Plot





TEST NUMBER: P845023

CATALOG NUMBER: SQ4P-PC3-OU-125D-B50-1D-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 | 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° | 15228 | 15228 | 15228 |
| 5° | 15345 | 15245 | 15189 |
| 10° | 15308 | 15236 | 15192 |
| 15° | 15227 | 15227 | 15211 |
| 20° | 15127 | 15170 | 15170 |
| 25° | 14984 | 15092 | 15046 |
| 30° | 14800 | 14979 | 14915 |
| 35° | 14582 | 14804 | 14699 |
| 40° | 14338 | 14543 | 14396 |
| 45° | 14080 | 14179 | 13960 |
| 50° | 13712 | 13712 | 13492 |
| 55° | 13277 | 13103 | 12909 |
| 60° | 12634 | 12382 | 12182 |
| 65° | 11675 | 11446 | 11341 |
| 70° | 10226 | 10305 | 10270 |
| 75° | 8227 | 9101 | 9158 |
| 80° | 5850 | 7715 | 7794 |
| 85° | 3567 | 6468 | 6468 |



TEST NUMBER: P845023

CATALOG NUMBER: SQ4P-PC3-OU-125D-B50-1D-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.2 | 3.5 |
| 10°-20° | 448.3 | 10.0 |
| 20°-30° | 678.9 | 15.1 |
| 30°-40° | 813.9 | 18.1 |
| 40°-50° | 829.9 | 18.4 |
| 50°-60° | 724.4 | 16.1 |
| 60°-70° | 518.6 | 11.5 |
| 70°-80° | 267.2 | 5.9 |
| 80°-90° | 67.6 | 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° | 1283.4 | 28.5 |
| 0°-40° | 2097.3 | 46.6 |
| 0°-60° | 3651.6 | 81.1 |
| 0°-90° | 4505.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4505.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1650 | 1650 | 1650 | 1650 | 1650 | |
| 5° | 1657 | 1640 | 1646 | 1641 | 1640 | 157 |
| 15° | 1594 | 1581 | 1594 | 1594 | 1592 | 449 |
| 25° | 1472 | 1461 | 1482 | 1478 | 1478 | 677 |
| 35° | 1295 | 1291 | 1314 | 1305 | 1305 | 810 |
| 45° | 1079 | 1076 | 1087 | 1073 | 1070 | 831 |
| 55° | 825 | 815 | 815 | 802 | 802 | 736 |
| 65° | 535 | 523 | 524 | 520 | 520 | 529 |
| 75° | 231 | 241 | 255 | 257 | 257 | 249 |
| 85° | 34 | 52 | 61 | 63 | 61 | 47 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P845023

CATALOG NUMBER: SQ4P-PC3-OU-125D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1650.5 | 1650.5 | 1650.5 | 1650.5 | 1650.5 |
| 2.5° | 1660.5 | 1646.1 | 1650.5 | 1646.8 | 1640.8 |
| 5° | 1656.9 | 1640.2 | 1646.1 | 1641.3 | 1640.0 |
| 7.5° | 1644.7 | 1628.4 | 1636.1 | 1632.9 | 1631.3 |
| 10° | 1634.0 | 1617.3 | 1626.3 | 1623.1 | 1621.6 |
| 12.5° | 1619.2 | 1603.9 | 1614.0 | 1611.0 | 1610.5 |
| 15° | 1594.2 | 1580.7 | 1594.2 | 1594.2 | 1592.5 |
| 17.5° | 1562.6 | 1550.5 | 1564.7 | 1565.7 | 1564.7 |
| 20° | 1540.7 | 1527.2 | 1545.1 | 1543.6 | 1545.1 |
| 22.5° | 1513.8 | 1502.8 | 1522.0 | 1518.0 | 1519.6 |
| 25° | 1471.9 | 1461.4 | 1482.5 | 1478.0 | 1478.0 |
| 27.5° | 1422.4 | 1414.7 | 1437.9 | 1432.9 | 1432.9 |
| 30° | 1389.2 | 1381.9 | 1406.0 | 1400.0 | 1400.0 |
| 32.5° | 1352.5 | 1347.6 | 1370.7 | 1363.4 | 1363.4 |
| 35° | 1294.7 | 1291.4 | 1314.4 | 1305.1 | 1305.1 |
| 37.5° | 1234.6 | 1231.9 | 1252.8 | 1241.6 | 1238.0 |
| 40° | 1190.5 | 1189.3 | 1207.5 | 1195.3 | 1195.3 |
| 42.5° | 1146.5 | 1145.0 | 1161.1 | 1146.3 | 1146.3 |
| 45° | 1079.1 | 1076.0 | 1086.7 | 1072.7 | 1069.9 |
| 47.5° | 1005.3 | 1002.5 | 1009.1 | 994.0 | 992.4 |
| 50° | 955.3 | 952.1 | 955.3 | 941.4 | 940.0 |
| 52.5° | 903.9 | 898.4 | 898.9 | 885.2 | 884.9 |
| 55° | 825.4 | 814.8 | 814.6 | 802.5 | 802.5 |
| 57.5° | 742.1 | 728.5 | 729.7 | 719.3 | 717.6 |
| 60° | 684.7 | 669.7 | 671.0 | 661.8 | 660.2 |
| 62.5° | 628.3 | 611.2 | 614.6 | 604.3 | 604.1 |
| 65° | 534.8 | 522.9 | 524.3 | 519.5 | 519.5 |
| 67.5° | 445.0 | 433.9 | 442.1 | 438.4 | 438.1 |
| 70° | 379.1 | 371.5 | 382.0 | 382.0 | 380.7 |
| 72.5° | 318.0 | 317.7 | 330.6 | 330.6 | 331.7 |
| 75° | 230.8 | 241.3 | 255.3 | 256.9 | 256.9 |
| 77.5° | 154.1 | 172.6 | 188.1 | 188.6 | 188.4 |
| 80° | 110.1 | 130.9 | 145.2 | 148.3 | 146.7 |
| 82.5° | 74.5 | 96.7 | 108.5 | 111.5 | 110.1 |
| 85° | 33.7 | 51.6 | 61.1 | 62.7 | 61.1 |
| 87.5° | 9.7 | 20.6 | 24.5 | 24.5 | 22.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)