

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: P845107

Luminaire Tested: **SQ4P-PP3-0U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-0U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

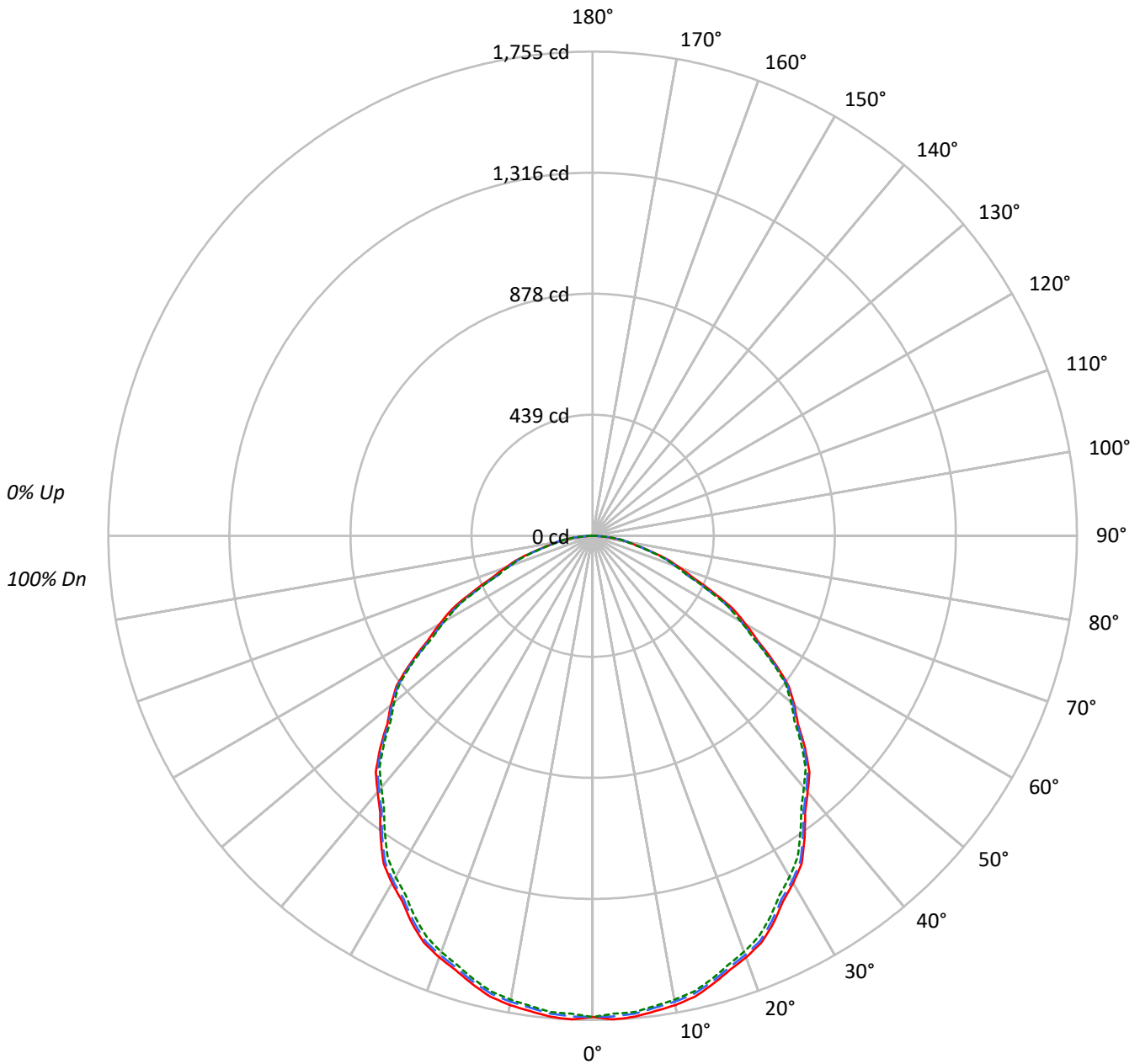
Lumens per Lamp: N/A
Luminaire Lumens: 4463.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





TEST NUMBER: P845107

CATALOG NUMBER: SQ4P-PP3-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 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16089 | 16089 | 16089 |
| 5° | 16207 | 16107 | 16051 |
| 10° | 16179 | 16066 | 15995 |
| 15° | 16073 | 15985 | 15896 |
| 20° | 15966 | 15874 | 15755 |
| 25° | 15775 | 15668 | 15512 |
| 30° | 15485 | 15403 | 15207 |
| 35° | 15079 | 14975 | 14785 |
| 40° | 14595 | 14503 | 14338 |
| 45° | 14200 | 14099 | 13959 |
| 50° | 13687 | 13601 | 13468 |
| 55° | 12978 | 12809 | 12712 |
| 60° | 11815 | 11479 | 11422 |
| 65° | 10413 | 9975 | 9942 |
| 70° | 8983 | 8616 | 8616 |
| 75° | 7743 | 7625 | 7514 |
| 80° | 6817 | 6907 | 6732 |
| 85° | 5335 | 5822 | 5822 |



TEST NUMBER: P845107

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.9 | 3.7 |
| 10°-20° | 470.8 | 10.5 |
| 20°-30° | 705.2 | 15.8 |
| 30°-40° | 827.2 | 18.5 |
| 40°-50° | 829.7 | 18.6 |
| 50°-60° | 707.9 | 15.9 |
| 60°-70° | 461.6 | 10.3 |
| 70°-80° | 231.6 | 5.2 |
| 80°-90° | 64.1 | 1.4 |
| 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° | 1340.9 | 30.0 |
| 0°-40° | 2168.1 | 48.6 |
| 0°-60° | 3705.7 | 83.0 |
| 0°-90° | 4463.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4463.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1744 | 1744 | 1744 | 1744 | 1744 | |
| 5° | 1750 | 1734 | 1739 | 1733 | 1733 | 166 |
| 15° | 1683 | 1666 | 1674 | 1667 | 1664 | 475 |
| 25° | 1550 | 1532 | 1539 | 1525 | 1524 | 713 |
| 35° | 1339 | 1325 | 1330 | 1314 | 1313 | 836 |
| 45° | 1088 | 1081 | 1081 | 1070 | 1070 | 838 |
| 55° | 807 | 804 | 796 | 792 | 790 | 717 |
| 65° | 477 | 468 | 457 | 454 | 455 | 476 |
| 75° | 217 | 217 | 214 | 212 | 211 | 235 |
| 85° | 50 | 55 | 55 | 55 | 55 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P845107

CATALOG NUMBER: SQ4P-PP3-OU-125D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1743.8 | 1743.8 | 1743.8 | 1743.8 | 1743.8 |
| 2.5° | 1754.7 | 1740.4 | 1743.8 | 1741.3 | 1734.1 |
| 5° | 1749.9 | 1733.5 | 1739.1 | 1733.1 | 1733.1 |
| 7.5° | 1738.0 | 1720.1 | 1725.6 | 1719.6 | 1719.4 |
| 10° | 1727.0 | 1709.1 | 1714.9 | 1708.5 | 1707.3 |
| 12.5° | 1711.2 | 1693.3 | 1700.1 | 1692.7 | 1692.5 |
| 15° | 1682.7 | 1666.1 | 1673.5 | 1667.2 | 1664.2 |
| 17.5° | 1650.5 | 1632.6 | 1641.4 | 1632.9 | 1631.6 |
| 20° | 1626.1 | 1608.2 | 1616.8 | 1604.7 | 1604.7 |
| 22.5° | 1596.8 | 1578.9 | 1588.9 | 1572.8 | 1572.8 |
| 25° | 1549.6 | 1531.7 | 1539.1 | 1525.1 | 1523.8 |
| 27.5° | 1493.8 | 1476.1 | 1483.7 | 1467.9 | 1467.7 |
| 30° | 1453.5 | 1436.9 | 1445.8 | 1429.0 | 1427.4 |
| 32.5° | 1409.5 | 1394.1 | 1400.5 | 1383.7 | 1382.1 |
| 35° | 1338.8 | 1325.4 | 1329.6 | 1314.4 | 1312.7 |
| 37.5° | 1264.6 | 1250.9 | 1255.6 | 1242.4 | 1241.9 |
| 40° | 1211.8 | 1202.9 | 1204.2 | 1193.4 | 1190.5 |
| 42.5° | 1163.1 | 1152.8 | 1154.1 | 1143.3 | 1142.8 |
| 45° | 1088.3 | 1080.6 | 1080.6 | 1069.8 | 1069.8 |
| 47.5° | 1008.7 | 1002.9 | 1001.3 | 992.4 | 992.1 |
| 50° | 953.6 | 949.2 | 947.6 | 939.9 | 938.3 |
| 52.5° | 896.1 | 894.0 | 888.8 | 882.4 | 882.2 |
| 55° | 806.8 | 804.0 | 796.3 | 791.5 | 790.3 |
| 57.5° | 710.1 | 704.1 | 695.4 | 688.8 | 689.8 |
| 60° | 640.3 | 634.2 | 622.1 | 619.0 | 619.0 |
| 62.5° | 573.1 | 566.0 | 553.6 | 549.4 | 551.8 |
| 65° | 477.0 | 468.0 | 456.9 | 454.0 | 455.4 |
| 67.5° | 389.5 | 381.3 | 369.4 | 369.4 | 368.3 |
| 70° | 333.0 | 328.5 | 319.4 | 319.4 | 319.4 |
| 72.5° | 283.0 | 280.8 | 274.3 | 274.1 | 272.9 |
| 75° | 217.2 | 217.2 | 213.9 | 212.4 | 210.8 |
| 77.5° | 162.6 | 163.1 | 161.7 | 160.2 | 157.3 |
| 80° | 128.3 | 131.5 | 130.0 | 128.3 | 126.7 |
| 82.5° | 96.7 | 99.6 | 99.3 | 96.7 | 96.2 |
| 85° | 50.4 | 54.8 | 55.0 | 55.0 | 55.0 |
| 87.5° | 13.4 | 18.2 | 19.5 | 19.5 | 20.8 |
| 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)