

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: P844985

Luminaire Tested: **SQ4P-PC3-025U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844985
REPORT IS A COMBINATION OF REPORTS P700170 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

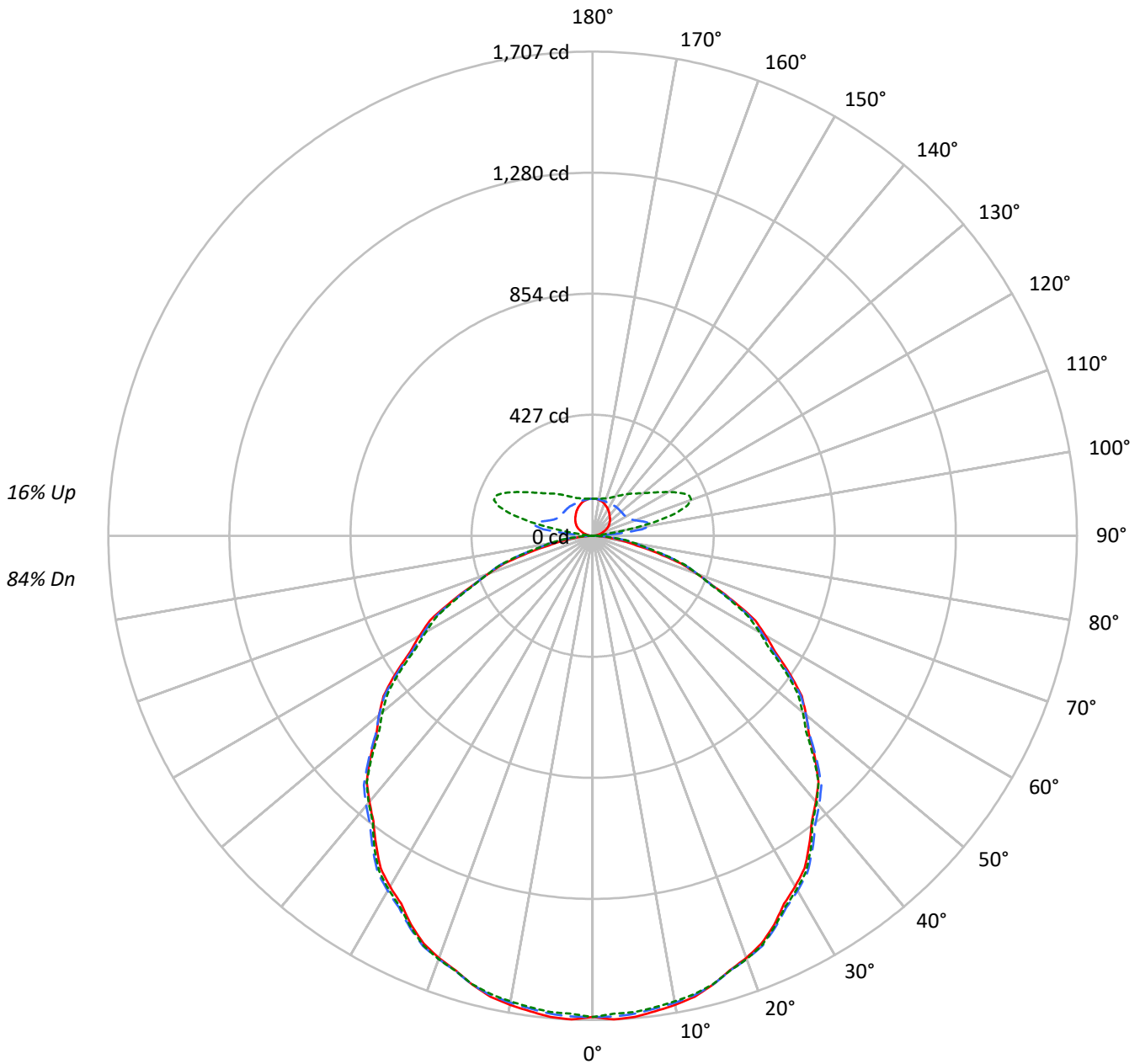
Lumens per Lamp: N/A
Luminaire Lumens: 5481.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.8
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: P844985

CATALOG NUMBER: SQ4P-PC3-025U-125D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P844985

CATALOG NUMBER: SQ4P-PC3-025U-125D-B35-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 95 | 95 | 95 | 88 | 88 | 88 | 84 | 84 | 84 | 84 |
| 1 | 106 | 101 | 97 | 93 | 101 | 97 | 94 | 90 | 90 | 87 | 85 | 84 | 82 | 79 | 78 | 76 | 74 | 71 | 71 | 71 | 71 |
| 2 | 96 | 88 | 82 | 76 | 92 | 85 | 79 | 74 | 79 | 74 | 70 | 74 | 70 | 66 | 69 | 65 | 63 | 60 | 60 | 60 | 60 |
| 3 | 88 | 78 | 70 | 64 | 84 | 75 | 68 | 62 | 70 | 64 | 59 | 65 | 60 | 56 | 61 | 57 | 53 | 51 | 51 | 51 | 51 |
| 4 | 80 | 69 | 60 | 54 | 77 | 67 | 59 | 53 | 62 | 56 | 50 | 58 | 53 | 48 | 54 | 50 | 46 | 43 | 43 | 43 | 43 |
| 5 | 74 | 62 | 53 | 47 | 71 | 60 | 52 | 46 | 56 | 49 | 44 | 52 | 46 | 42 | 49 | 44 | 40 | 38 | 38 | 38 | 38 |
| 6 | 68 | 55 | 47 | 41 | 65 | 54 | 46 | 40 | 50 | 43 | 38 | 47 | 41 | 37 | 44 | 39 | 35 | 33 | 33 | 33 | 33 |
| 7 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 43 | 37 | 33 | 40 | 35 | 31 | 29 | 29 | 29 | 29 |
| 8 | 59 | 46 | 37 | 32 | 56 | 44 | 37 | 31 | 42 | 35 | 30 | 39 | 33 | 29 | 37 | 32 | 28 | 26 | 26 | 26 | 26 |
| 9 | 55 | 42 | 34 | 29 | 53 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 34 | 29 | 25 | 23 | 23 | 23 | 23 |
| 10 | 51 | 39 | 31 | 26 | 49 | 38 | 30 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 32 | 27 | 23 | 21 | 21 | 21 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15652 | 15652 | 15652 |
| 5° | 15773 | 15669 | 15612 |
| 10° | 15734 | 15661 | 15615 |
| 15° | 15651 | 15651 | 15635 |
| 20° | 15548 | 15593 | 15593 |
| 25° | 15402 | 15512 | 15465 |
| 30° | 15212 | 15396 | 15330 |
| 35° | 14989 | 15216 | 15109 |
| 40° | 14738 | 14948 | 14797 |
| 45° | 14473 | 14574 | 14349 |
| 50° | 14094 | 14094 | 13868 |
| 55° | 13647 | 13470 | 13267 |
| 60° | 12987 | 12727 | 12522 |
| 65° | 12003 | 11765 | 11658 |
| 70° | 10512 | 10593 | 10556 |
| 75° | 8456 | 9357 | 9411 |
| 80° | 6014 | 7927 | 8012 |
| 85° | 3663 | 6648 | 6648 |



TEST NUMBER: P844985

CATALOG NUMBER: SQ4P-PC3-025U-125D-B35-1D-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.6 | 2.9 |
| 10°-20° | 460.8 | 8.4 |
| 20°-30° | 697.8 | 12.7 |
| 30°-40° | 836.6 | 15.3 |
| 40°-50° | 853.0 | 15.6 |
| 50°-60° | 744.6 | 13.6 |
| 60°-70° | 533.1 | 9.7 |
| 70°-80° | 274.6 | 5.0 |
| 80°-90° | 69.8 | 1.3 |
| 90°-100° | 52.2 | 1.0 |
| 100°-110° | 181.6 | 3.3 |
| 110°-120° | 175.9 | 3.2 |
| 120°-130° | 138.0 | 2.5 |
| 130°-140° | 109.2 | 2.0 |
| 140°-150° | 84.3 | 1.5 |
| 150°-160° | 60.4 | 1.1 |
| 160°-170° | 37.0 | 0.7 |
| 170°-180° | 12.5 | 0.2 |
| 0°-30° | 1319.2 | 24.1 |
| 0°-40° | 2155.8 | 39.3 |
| 0°-60° | 3753.4 | 68.5 |
| 0°-90° | 4630.9 | 84.5 |
| 90°-120° | 409.7 | 7.5 |
| 90°-150° | 741.2 | 13.5 |
| 90°-180° | 851.0 | 15.5 |
| 0°-180° | 5481.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1696 | 1696 | 1696 | 1696 | 1696 | |
| 5° | 1703 | 1686 | 1692 | 1687 | 1686 | 162 |
| 15° | 1639 | 1625 | 1639 | 1639 | 1637 | 462 |
| 25° | 1513 | 1502 | 1524 | 1519 | 1519 | 696 |
| 35° | 1331 | 1327 | 1351 | 1342 | 1342 | 832 |
| 45° | 1109 | 1106 | 1117 | 1103 | 1100 | 854 |
| 55° | 848 | 838 | 837 | 825 | 825 | 756 |
| 65° | 550 | 538 | 539 | 534 | 534 | 544 |
| 75° | 237 | 248 | 262 | 264 | 264 | 256 |
| 85° | 35 | 53 | 63 | 64 | 63 | 47 |
| 90° | 2 | 3 | 3 | 2 | 1 | 3 |
| 95° | 9 | 30 | 88 | 22 | 14 | 9 |
| 105° | 30 | 43 | 191 | 322 | 300 | 32 |
| 115° | 53 | 64 | 142 | 300 | 353 | 52 |
| 125° | 71 | 88 | 132 | 223 | 266 | 64 |
| 135° | 86 | 97 | 131 | 186 | 210 | 67 |
| 145° | 101 | 108 | 130 | 160 | 174 | 63 |
| 155° | 114 | 118 | 128 | 143 | 148 | 53 |
| 165° | 125 | 126 | 129 | 135 | 136 | 35 |
| 175° | 131 | 131 | 130 | 132 | 131 | 12 |
| 180° | 131 | 131 | 131 | 131 | 131 | |



TEST NUMBER: P844985

CATALOG NUMBER: SQ4P-PC3-025U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1696.5 | 1696.5 | 1696.5 | 1696.5 | 1696.5 |
| 2.5° | 1706.8 | 1691.9 | 1696.5 | 1692.7 | 1686.6 |
| 5° | 1703.1 | 1686.0 | 1691.9 | 1687.0 | 1685.7 |
| 7.5° | 1690.6 | 1673.8 | 1681.7 | 1678.4 | 1676.8 |
| 10° | 1679.5 | 1662.4 | 1671.7 | 1668.4 | 1666.8 |
| 12.5° | 1664.3 | 1648.6 | 1659.0 | 1655.9 | 1655.4 |
| 15° | 1638.6 | 1624.8 | 1638.6 | 1638.6 | 1636.9 |
| 17.5° | 1606.1 | 1593.7 | 1608.3 | 1609.3 | 1608.3 |
| 20° | 1583.6 | 1569.8 | 1588.2 | 1586.6 | 1588.2 |
| 22.5° | 1556.0 | 1544.7 | 1564.4 | 1560.3 | 1562.0 |
| 25° | 1513.0 | 1502.1 | 1523.8 | 1519.2 | 1519.2 |
| 27.5° | 1462.1 | 1454.1 | 1478.0 | 1472.8 | 1472.8 |
| 30° | 1427.9 | 1420.4 | 1445.2 | 1439.0 | 1439.0 |
| 32.5° | 1390.2 | 1385.2 | 1408.9 | 1401.4 | 1401.4 |
| 35° | 1330.8 | 1327.4 | 1351.0 | 1341.5 | 1341.5 |
| 37.5° | 1269.0 | 1266.3 | 1287.7 | 1276.2 | 1272.5 |
| 40° | 1223.7 | 1222.4 | 1241.1 | 1228.6 | 1228.6 |
| 42.5° | 1178.5 | 1176.9 | 1193.5 | 1178.3 | 1178.3 |
| 45° | 1109.2 | 1106.0 | 1117.0 | 1102.6 | 1099.7 |
| 47.5° | 1033.4 | 1030.4 | 1037.2 | 1021.7 | 1020.1 |
| 50° | 981.9 | 978.7 | 981.9 | 967.6 | 966.2 |
| 52.5° | 929.1 | 923.5 | 924.0 | 909.9 | 909.6 |
| 55° | 848.4 | 837.6 | 837.4 | 824.8 | 824.8 |
| 57.5° | 762.8 | 748.8 | 750.1 | 739.3 | 737.6 |
| 60° | 703.8 | 688.3 | 689.7 | 680.2 | 678.6 |
| 62.5° | 645.9 | 628.2 | 631.8 | 621.2 | 620.9 |
| 65° | 549.8 | 537.5 | 538.9 | 534.0 | 534.0 |
| 67.5° | 457.4 | 446.0 | 454.4 | 450.6 | 450.3 |
| 70° | 389.7 | 381.8 | 392.7 | 392.7 | 391.3 |
| 72.5° | 326.8 | 326.5 | 339.9 | 339.9 | 340.9 |
| 75° | 237.2 | 248.1 | 262.5 | 264.0 | 264.0 |
| 77.5° | 158.4 | 177.4 | 193.4 | 193.9 | 193.7 |
| 80° | 113.2 | 134.6 | 149.2 | 152.5 | 150.8 |
| 82.5° | 76.6 | 99.4 | 111.6 | 114.6 | 113.2 |
| 85° | 34.6 | 53.0 | 62.8 | 64.5 | 62.8 |
| 87.5° | 10.0 | 21.1 | 25.1 | 25.1 | 22.7 |
| 90° | 2.0 | 2.9 | 2.9 | 2.0 | 1.0 |
| 92.5° | 4.9 | 14.7 | 13.7 | 5.9 | 4.9 |
| 95° | 8.8 | 30.3 | 88.1 | 22.5 | 13.7 |
| 97.5° | 13.7 | 34.2 | 176.1 | 80.2 | 43.1 |
| 100° | 18.6 | 36.2 | 205.5 | 192.8 | 124.3 |
| 102.5° | 24.5 | 39.1 | 204.5 | 271.1 | 223.1 |
| 105° | 30.3 | 43.1 | 190.8 | 322.0 | 299.5 |



TEST NUMBER: P844985

CATALOG NUMBER: SQ4P-PC3-025U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 47.0 | 57.7 | 148.7 | 324.0 | 369.0 |
| 115° | 52.8 | 63.6 | 141.9 | 299.5 | 353.4 |
| 117.5° | 58.7 | 70.5 | 138.0 | 276.9 | 330.9 |
| 120° | 63.6 | 76.3 | 135.0 | 255.4 | 308.3 |
| 122.5° | 67.5 | 82.2 | 133.1 | 237.8 | 285.8 |
| 125° | 71.4 | 88.1 | 132.1 | 223.1 | 266.2 |
| 127.5° | 75.3 | 92.0 | 132.1 | 212.3 | 248.6 |
| 130° | 79.3 | 93.9 | 131.1 | 201.6 | 233.9 |
| 132.5° | 83.2 | 94.9 | 131.1 | 193.8 | 221.2 |
| 135° | 86.1 | 96.9 | 131.1 | 185.9 | 210.4 |
| 137.5° | 90.0 | 98.8 | 131.1 | 179.1 | 201.6 |
| 140° | 93.0 | 101.8 | 131.1 | 172.2 | 191.8 |
| 142.5° | 96.9 | 104.7 | 131.1 | 165.4 | 183.0 |
| 145° | 100.8 | 107.6 | 130.1 | 160.5 | 174.2 |
| 147.5° | 104.7 | 110.6 | 129.2 | 155.6 | 166.4 |
| 150° | 107.6 | 113.5 | 129.2 | 150.7 | 159.5 |
| 152.5° | 111.6 | 116.4 | 128.2 | 145.8 | 153.6 |
| 155° | 114.5 | 118.4 | 128.2 | 142.9 | 147.8 |
| 157.5° | 117.4 | 121.3 | 128.2 | 139.9 | 143.8 |
| 160° | 120.4 | 123.3 | 129.2 | 138.0 | 140.9 |
| 162.5° | 123.3 | 125.3 | 129.2 | 136.0 | 138.0 |
| 165° | 125.3 | 126.2 | 129.2 | 135.0 | 136.0 |
| 167.5° | 127.2 | 128.2 | 129.2 | 134.1 | 134.1 |
| 170° | 128.2 | 129.2 | 130.1 | 133.1 | 133.1 |
| 172.5° | 130.1 | 130.1 | 130.1 | 132.1 | 132.1 |
| 175° | 131.1 | 131.1 | 130.1 | 132.1 | 131.1 |
| 177.5° | 131.1 | 131.1 | 130.1 | 132.1 | 131.1 |
| 180° | 131.1 | 131.1 | 131.1 | 131.1 | 131.1 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|------|------|-------|-------|-------|
| 107.5° | 36.2 | 47.9 | 173.2 | 344.6 | 348.5 |
| 110° | 41.1 | 52.8 | 159.5 | 341.6 | 370.0 |



(END OF REPORT)