

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: P845388

Luminaire Tested: **SQ4P-WB-150U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845388
REPORT IS A COMBINATION OF REPORTS P700156 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-150U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

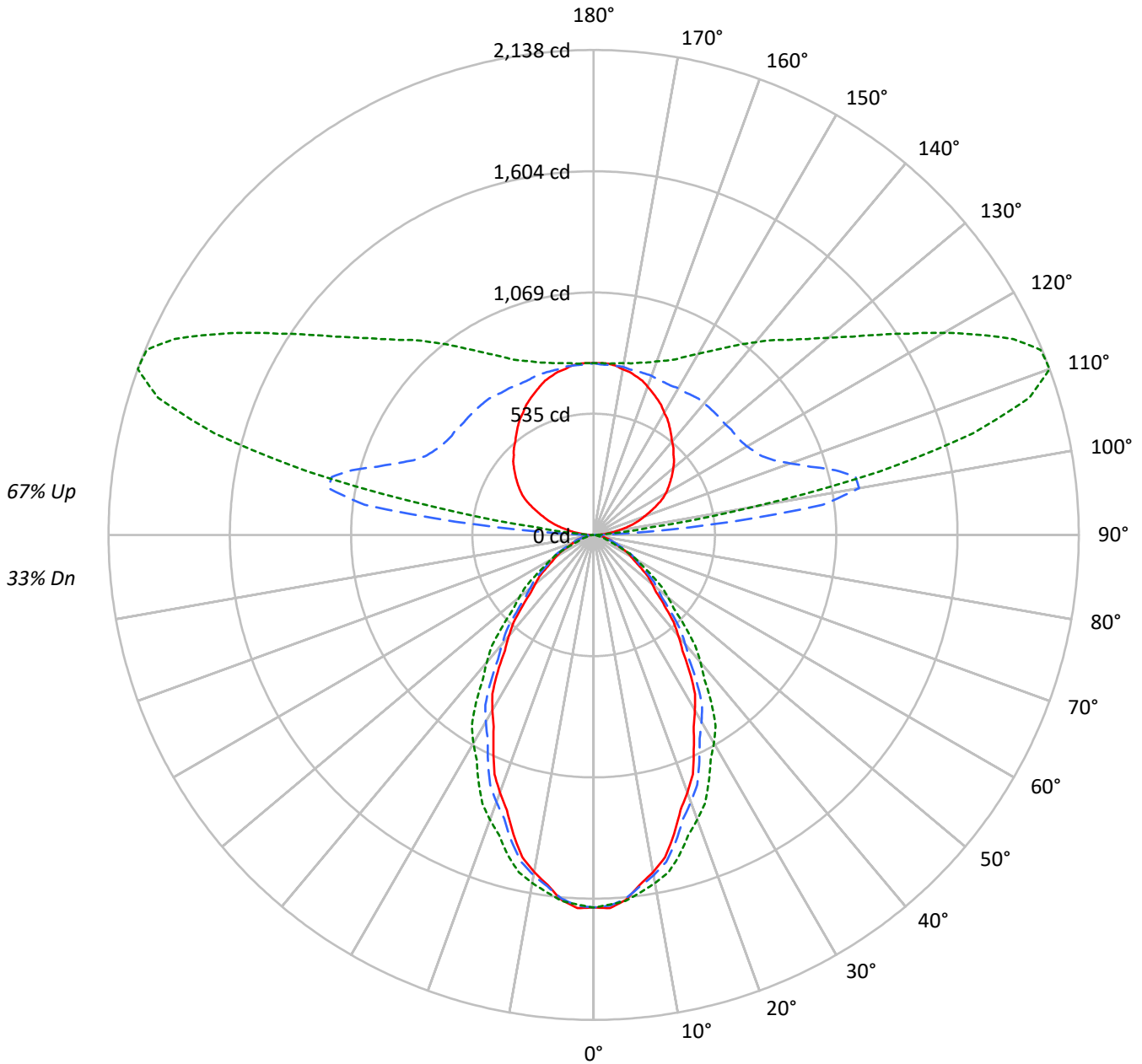
Lumens per Lamp: N/A
Luminaire Lumens: 7314.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.6
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: P845388

CATALOG NUMBER: SQ4P-WB-150U-075D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845388

CATALOG NUMBER: SQ4P-WB-150U-075D-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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 33 | | | | | | | | | | | | | | | | | | | |
| 1 | 95 | 91 | 87 | 84 | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 49 | 48 | 37 | 36 | 35 | 29 | | | | | | | | | | | | | | | | | | | |
| 2 | 87 | 80 | 75 | 70 | 78 | 73 | 68 | 64 | 58 | 55 | 52 | 45 | 43 | 41 | 33 | 32 | 31 | 26 | | | | | | | | | | | | | | | | | | | |
| 3 | 80 | 71 | 64 | 59 | 72 | 65 | 59 | 54 | 52 | 48 | 45 | 41 | 38 | 36 | 30 | 29 | 27 | 23 | | | | | | | | | | | | | | | | | | | |
| 4 | 73 | 63 | 56 | 51 | 66 | 58 | 51 | 47 | 47 | 42 | 39 | 37 | 34 | 32 | 28 | 26 | 24 | 20 | | | | | | | | | | | | | | | | | | | |
| 5 | 67 | 57 | 49 | 44 | 61 | 52 | 45 | 41 | 42 | 38 | 34 | 33 | 30 | 28 | 25 | 23 | 22 | 18 | | | | | | | | | | | | | | | | | | | |
| 6 | 62 | 51 | 44 | 38 | 56 | 47 | 40 | 36 | 38 | 34 | 30 | 30 | 27 | 25 | 23 | 21 | 19 | 16 | | | | | | | | | | | | | | | | | | | |
| 7 | 58 | 46 | 39 | 34 | 52 | 42 | 36 | 31 | 35 | 30 | 27 | 28 | 25 | 22 | 21 | 19 | 18 | 15 | | | | | | | | | | | | | | | | | | | |
| 8 | 54 | 42 | 35 | 30 | 49 | 39 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 20 | 18 | 16 | 14 | | | | | | | | | | | | | | | | | | | |
| 9 | 50 | 39 | 32 | 27 | 45 | 35 | 29 | 25 | 29 | 25 | 22 | 24 | 20 | 18 | 18 | 16 | 15 | 12 | | | | | | | | | | | | | | | | | | | |
| 10 | 47 | 36 | 29 | 24 | 42 | 33 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 17 | 15 | 14 | 12 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15155 | 15155 | 15155 |
| 5° | 14966 | 14912 | 15000 |
| 10° | 14140 | 14268 | 14599 |
| 15° | 13052 | 13357 | 13955 |
| 20° | 11854 | 12298 | 13112 |
| 25° | 10633 | 11211 | 12217 |
| 30° | 9506 | 10128 | 11287 |
| 35° | 8312 | 8913 | 10189 |
| 40° | 6996 | 7553 | 8820 |
| 45° | 5774 | 6272 | 7364 |
| 50° | 4820 | 5255 | 6135 |
| 55° | 4092 | 4509 | 5065 |
| 60° | 3499 | 3910 | 4043 |
| 65° | 2786 | 3288 | 2611 |
| 70° | 2471 | 2568 | 1594 |
| 75° | 2289 | 2082 | 977 |
| 80° | 2104 | 1913 | 839 |
| 85° | 1895 | 1768 | 688 |



TEST NUMBER: P845388

CATALOG NUMBER: SQ4P-WB-150U-075D-B40-1D-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.7 | 2.1 |
| 10°-20° | 391.9 | 5.4 |
| 20°-30° | 507.6 | 6.9 |
| 30°-40° | 497.1 | 6.8 |
| 40°-50° | 380.5 | 5.2 |
| 50°-60° | 253.5 | 3.5 |
| 60°-70° | 138.4 | 1.9 |
| 70°-80° | 57.7 | 0.8 |
| 80°-90° | 18.2 | 0.2 |
| 90°-100° | 301.6 | 4.1 |
| 100°-110° | 1049.5 | 14.3 |
| 110°-120° | 1016.6 | 13.9 |
| 120°-130° | 797.5 | 10.9 |
| 130°-140° | 631.2 | 8.6 |
| 140°-150° | 487.1 | 6.7 |
| 150°-160° | 349.2 | 4.8 |
| 160°-170° | 213.6 | 2.9 |
| 170°-180° | 72.2 | 1.0 |
| 0°-30° | 1050.2 | 14.4 |
| 0°-40° | 1547.2 | 21.2 |
| 0°-60° | 2181.3 | 29.8 |
| 0°-90° | 2395.4 | 32.8 |
| 90°-120° | 2367.8 | 32.4 |
| 90°-150° | 4283.6 | 58.6 |
| 90°-180° | 4919.0 | 67.3 |
| 0°-180° | 7314.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1643 | 1643 | 1643 | 1643 | 1643 | |
| 5° | 1616 | 1600 | 1610 | 1614 | 1620 | 150 |
| 15° | 1366 | 1362 | 1398 | 1436 | 1461 | 382 |
| 25° | 1044 | 1047 | 1101 | 1149 | 1200 | 480 |
| 35° | 738 | 742 | 791 | 845 | 905 | 459 |
| 45° | 442 | 451 | 481 | 517 | 564 | 345 |
| 55° | 254 | 265 | 280 | 291 | 315 | 231 |
| 65° | 128 | 138 | 151 | 132 | 120 | 133 |
| 75° | 64 | 64 | 58 | 40 | 27 | 68 |
| 85° | 18 | 18 | 17 | 11 | 6 | 20 |
| 90° | 11 | 17 | 17 | 11 | 6 | 8 |
| 95° | 51 | 175 | 509 | 130 | 79 | 54 |
| 105° | 175 | 249 | 1103 | 1861 | 1731 | 184 |
| 115° | 305 | 368 | 820 | 1731 | 2042 | 302 |
| 125° | 413 | 509 | 764 | 1290 | 1538 | 370 |
| 135° | 498 | 560 | 758 | 1075 | 1216 | 386 |
| 145° | 583 | 622 | 752 | 928 | 1007 | 364 |
| 155° | 662 | 684 | 741 | 826 | 854 | 305 |
| 165° | 724 | 730 | 747 | 780 | 786 | 204 |
| 175° | 758 | 758 | 752 | 764 | 758 | 72 |
| 180° | 758 | 758 | 758 | 758 | 758 | |



TEST NUMBER: P845388

CATALOG NUMBER: SQ4P-WB-150U-075D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1642.6 | 1642.6 | 1642.6 | 1642.6 | 1642.6 |
| 2.5° | 1646.6 | 1632.0 | 1635.8 | 1635.6 | 1631.0 |
| 5° | 1616.0 | 1599.6 | 1610.1 | 1613.9 | 1619.6 |
| 7.5° | 1555.9 | 1543.7 | 1562.8 | 1576.9 | 1588.3 |
| 10° | 1509.3 | 1498.7 | 1523.0 | 1543.5 | 1558.3 |
| 12.5° | 1455.1 | 1446.1 | 1476.4 | 1503.7 | 1523.2 |
| 15° | 1366.5 | 1361.6 | 1398.4 | 1436.3 | 1461.0 |
| 17.5° | 1271.9 | 1269.5 | 1311.5 | 1355.9 | 1387.4 |
| 20° | 1207.3 | 1206.6 | 1252.6 | 1298.9 | 1335.5 |
| 22.5° | 1142.1 | 1143.6 | 1192.0 | 1240.2 | 1282.0 |
| 25° | 1044.5 | 1047.2 | 1101.3 | 1149.3 | 1200.1 |
| 27.5° | 954.0 | 955.3 | 1011.1 | 1061.9 | 1116.1 |
| 30° | 892.3 | 895.8 | 950.7 | 1003.2 | 1059.5 |
| 32.5° | 830.7 | 834.8 | 888.4 | 942.6 | 1000.1 |
| 35° | 738.0 | 741.6 | 791.3 | 844.7 | 904.6 |
| 37.5° | 642.6 | 647.4 | 691.6 | 741.9 | 801.0 |
| 40° | 580.9 | 588.0 | 627.1 | 674.6 | 732.3 |
| 42.5° | 521.5 | 530.3 | 566.5 | 611.6 | 663.6 |
| 45° | 442.5 | 451.0 | 480.7 | 517.1 | 564.4 |
| 47.5° | 374.4 | 384.2 | 407.1 | 438.4 | 478.7 |
| 50° | 335.8 | 345.1 | 366.1 | 389.3 | 427.4 |
| 52.5° | 301.9 | 311.0 | 329.8 | 347.7 | 380.2 |
| 55° | 254.4 | 264.9 | 280.3 | 291.1 | 314.9 |
| 57.5° | 215.5 | 225.7 | 237.9 | 242.7 | 257.2 |
| 60° | 189.6 | 200.9 | 211.9 | 211.3 | 219.1 |
| 62.5° | 165.9 | 175.6 | 186.5 | 178.8 | 179.3 |
| 65° | 127.6 | 138.2 | 150.6 | 131.7 | 119.6 |
| 67.5° | 103.1 | 105.2 | 118.1 | 91.9 | 77.5 |
| 70° | 91.6 | 91.6 | 95.2 | 71.1 | 59.1 |
| 72.5° | 80.6 | 80.6 | 77.3 | 57.8 | 45.2 |
| 75° | 64.2 | 64.2 | 58.4 | 40.1 | 27.4 |
| 77.5° | 49.4 | 48.9 | 44.7 | 29.8 | 19.9 |
| 80° | 39.6 | 39.6 | 36.0 | 23.6 | 15.8 |
| 82.5° | 31.0 | 31.0 | 27.9 | 18.4 | 11.7 |
| 85° | 17.9 | 17.9 | 16.7 | 10.8 | 6.5 |
| 87.5° | 6.4 | 6.4 | 5.7 | 3.4 | 2.9 |
| 90° | 11.3 | 17.0 | 17.0 | 11.3 | 5.6 |
| 92.5° | 28.3 | 84.8 | 79.2 | 33.9 | 28.3 |
| 95° | 50.9 | 175.3 | 509.0 | 130.0 | 79.2 |
| 97.5° | 79.2 | 198.0 | 1018.1 | 463.8 | 248.9 |
| 100° | 107.5 | 209.2 | 1187.8 | 1114.2 | 718.3 |
| 102.5° | 141.4 | 226.3 | 1182.1 | 1566.7 | 1289.5 |
| 105° | 175.3 | 248.9 | 1102.9 | 1860.8 | 1730.7 |



TEST NUMBER: P845388

CATALOG NUMBER: SQ4P-WB-150U-075D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 271.4 | 333.7 | 859.7 | 1872.1 | 2132.2 |
| 115° | 305.4 | 367.7 | 820.1 | 1730.7 | 2041.8 |
| 117.5° | 339.4 | 407.2 | 797.4 | 1600.6 | 1911.7 |
| 120° | 367.7 | 441.1 | 780.5 | 1476.2 | 1781.6 |
| 122.5° | 390.2 | 475.1 | 769.2 | 1374.4 | 1651.5 |
| 125° | 412.9 | 509.0 | 763.5 | 1289.5 | 1538.4 |
| 127.5° | 435.5 | 531.6 | 763.5 | 1227.3 | 1436.6 |
| 130° | 458.2 | 543.0 | 757.9 | 1165.1 | 1351.7 |
| 132.5° | 480.8 | 548.6 | 757.9 | 1119.8 | 1278.2 |
| 135° | 497.7 | 559.9 | 757.9 | 1074.6 | 1216.0 |
| 137.5° | 520.4 | 571.3 | 757.9 | 1035.1 | 1165.1 |
| 140° | 537.3 | 588.2 | 757.9 | 995.4 | 1108.5 |
| 142.5° | 559.9 | 605.2 | 757.9 | 955.9 | 1057.6 |
| 145° | 582.6 | 622.1 | 752.2 | 927.6 | 1006.8 |
| 147.5° | 605.2 | 639.1 | 746.6 | 899.3 | 961.5 |
| 150° | 622.1 | 656.1 | 746.6 | 871.0 | 921.9 |
| 152.5° | 644.8 | 673.0 | 740.9 | 842.7 | 888.0 |
| 155° | 661.8 | 684.4 | 740.9 | 825.7 | 854.0 |
| 157.5° | 678.7 | 701.3 | 740.9 | 808.8 | 831.5 |
| 160° | 695.7 | 712.6 | 746.6 | 797.4 | 814.4 |
| 162.5° | 712.6 | 724.0 | 746.6 | 786.2 | 797.4 |
| 165° | 724.0 | 729.6 | 746.6 | 780.5 | 786.2 |
| 167.5° | 735.2 | 740.9 | 746.6 | 774.9 | 774.9 |
| 170° | 740.9 | 746.6 | 752.2 | 769.2 | 769.2 |
| 172.5° | 752.2 | 752.2 | 752.2 | 763.5 | 763.5 |
| 175° | 757.9 | 757.9 | 752.2 | 763.5 | 757.9 |
| 177.5° | 757.9 | 757.9 | 752.2 | 763.5 | 757.9 |
| 180° | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|--------|--------|--------|
| 107.5° | 209.2 | 277.2 | 1001.1 | 1990.8 | 2013.5 |
| 110° | 237.5 | 305.4 | 921.9 | 1973.9 | 2137.9 |



(END OF REPORT)