

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P523756

Luminaire Tested: **SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523756
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.2 lumens
Efficiency: N/A
Efficacy: 117.9 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: General Diffuse

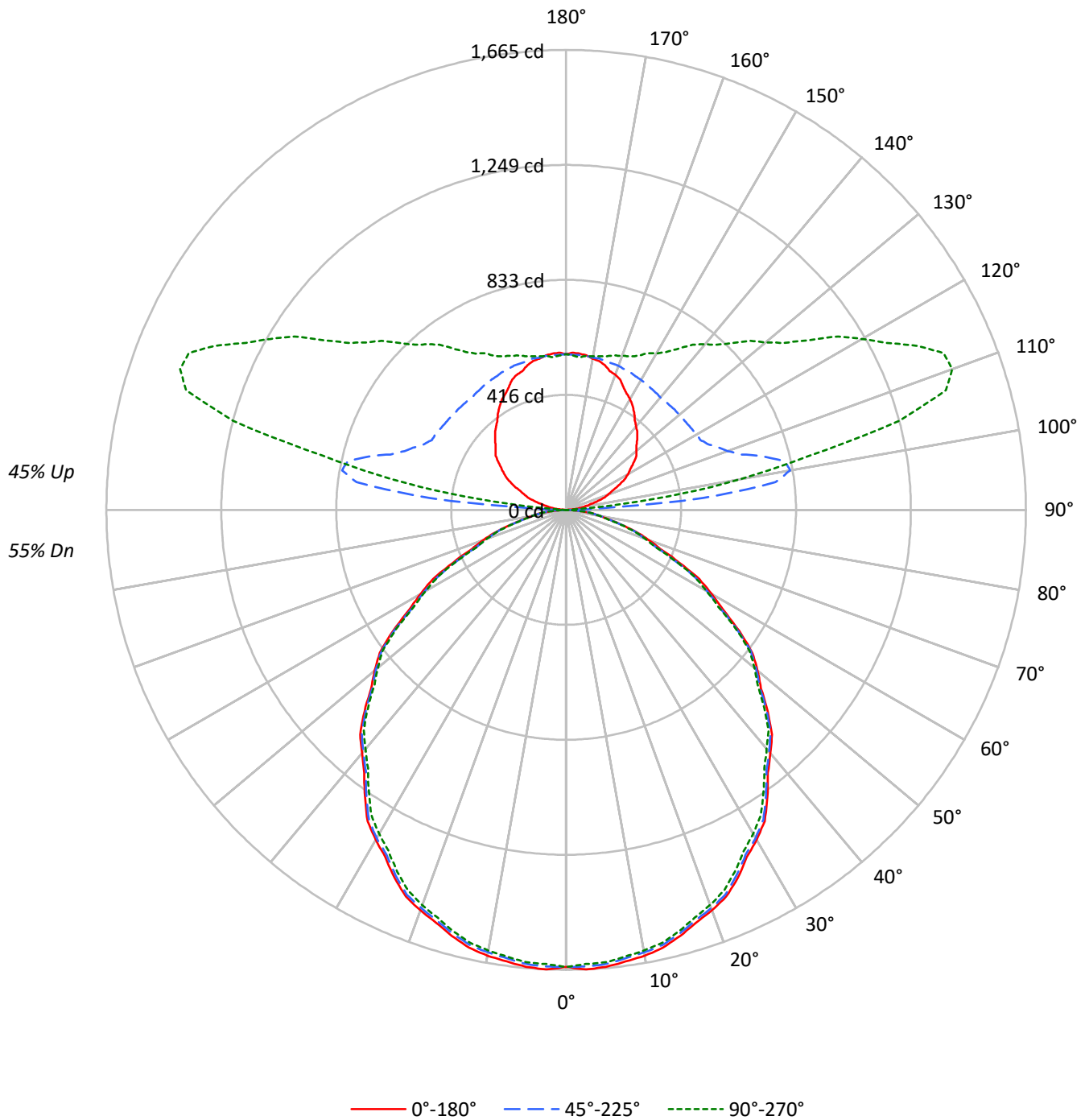
Input Watts (W): 65.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523756

CATALOG NUMBER: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523756

CATALOG NUMBER: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 | 55 |
| 1 | 99 | 95 | 91 | 88 | 92 | 88 | 85 | 82 | 76 | 73 | 71 | 64 | 63 | 61 | 54 | 53 | 52 | 47 |
| 2 | 90 | 83 | 77 | 72 | 84 | 77 | 72 | 68 | 67 | 63 | 59 | 57 | 54 | 51 | 48 | 46 | 44 | 39 |
| 3 | 83 | 73 | 66 | 60 | 76 | 68 | 62 | 57 | 59 | 54 | 50 | 50 | 47 | 44 | 42 | 40 | 37 | 34 |
| 4 | 76 | 65 | 57 | 51 | 70 | 61 | 54 | 48 | 52 | 47 | 43 | 45 | 41 | 37 | 38 | 35 | 32 | 29 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 47 | 41 | 37 | 40 | 36 | 33 | 34 | 31 | 28 | 25 |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 41 | 36 | 42 | 37 | 32 | 36 | 32 | 29 | 31 | 28 | 25 | 22 |
| 7 | 59 | 47 | 39 | 33 | 55 | 44 | 37 | 32 | 38 | 33 | 28 | 33 | 29 | 25 | 28 | 25 | 22 | 20 |
| 8 | 55 | 43 | 35 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 23 | 26 | 22 | 20 | 18 |
| 9 | 51 | 39 | 31 | 26 | 48 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |
| 10 | 48 | 36 | 28 | 24 | 44 | 34 | 27 | 23 | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15268 | 15268 | 15268 |
| 5° | 15380 | 15286 | 15232 |
| 10° | 15354 | 15245 | 15177 |
| 15° | 15252 | 15169 | 15086 |
| 20° | 15152 | 15066 | 14952 |
| 25° | 14972 | 14868 | 14720 |
| 30° | 14694 | 14617 | 14431 |
| 35° | 14310 | 14212 | 14032 |
| 40° | 13852 | 13765 | 13607 |
| 45° | 13473 | 13379 | 13246 |
| 50° | 12990 | 12907 | 12782 |
| 55° | 12318 | 12154 | 12061 |
| 60° | 11214 | 10892 | 10839 |
| 65° | 9879 | 9468 | 9435 |
| 70° | 8530 | 8176 | 8176 |
| 75° | 7340 | 7236 | 7133 |
| 80° | 6471 | 6551 | 6397 |
| 85° | 5071 | 5526 | 5526 |



TEST NUMBER: P523756

CATALOG NUMBER: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.5 | 2.0 |
| 10°-20° | 446.8 | 5.8 |
| 20°-30° | 669.3 | 8.7 |
| 30°-40° | 785.0 | 10.1 |
| 40°-50° | 787.4 | 10.2 |
| 50°-60° | 671.8 | 8.7 |
| 60°-70° | 438.1 | 5.7 |
| 70°-80° | 219.8 | 2.8 |
| 80°-90° | 60.8 | 0.8 |
| 90°-100° | 256.7 | 3.3 |
| 100°-110° | 730.5 | 9.4 |
| 110°-120° | 699.9 | 9.0 |
| 120°-130° | 553.9 | 7.2 |
| 130°-140° | 444.6 | 5.7 |
| 140°-150° | 348.1 | 4.5 |
| 150°-160° | 254.7 | 3.3 |
| 160°-170° | 157.8 | 2.0 |
| 170°-180° | 53.5 | 0.7 |
| 0°-30° | 1272.5 | 16.5 |
| 0°-40° | 2057.5 | 26.6 |
| 0°-60° | 3516.8 | 45.5 |
| 0°-90° | 4235.5 | 54.8 |
| 90°-120° | 1687.1 | 21.8 |
| 90°-150° | 3033.8 | 39.2 |
| 90°-180° | 3500.0 | 45.2 |
| 0°-180° | 7735.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1655 | 1655 | 1655 | 1655 | 1655 | |
| 5° | 1661 | 1645 | 1650 | 1645 | 1645 | 158 |
| 15° | 1597 | 1581 | 1588 | 1582 | 1579 | 451 |
| 25° | 1471 | 1454 | 1460 | 1447 | 1446 | 676 |
| 35° | 1270 | 1258 | 1262 | 1247 | 1246 | 794 |
| 45° | 1033 | 1026 | 1025 | 1015 | 1015 | 795 |
| 55° | 766 | 763 | 756 | 751 | 750 | 681 |
| 65° | 452 | 444 | 434 | 431 | 432 | 452 |
| 75° | 206 | 206 | 203 | 202 | 200 | 223 |
| 85° | 48 | 52 | 52 | 52 | 52 | 56 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 28 | 111 | 497 | 172 | 106 | 32 |
| 105° | 114 | 172 | 744 | 1315 | 1250 | 120 |
| 115° | 211 | 255 | 564 | 1196 | 1404 | 208 |
| 125° | 298 | 330 | 539 | 894 | 1069 | 267 |
| 135° | 364 | 395 | 532 | 755 | 854 | 281 |
| 145° | 430 | 452 | 537 | 654 | 712 | 268 |
| 155° | 491 | 502 | 550 | 591 | 615 | 227 |
| 165° | 542 | 544 | 556 | 568 | 576 | 152 |
| 175° | 568 | 565 | 562 | 559 | 555 | 54 |
| 180° | 563 | 563 | 563 | 563 | 563 | |

TEST NUMBER: P523756

CATALOG NUMBER: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1654.8 | 1654.8 | 1654.8 | 1654.8 | 1654.8 |
| 2.5° | 1665.3 | 1651.7 | 1654.8 | 1652.4 | 1645.6 |
| 5° | 1660.6 | 1645.0 | 1650.5 | 1644.7 | 1644.7 |
| 7.5° | 1649.3 | 1632.3 | 1637.7 | 1631.9 | 1631.6 |
| 10° | 1638.9 | 1621.9 | 1627.3 | 1621.5 | 1620.0 |
| 12.5° | 1623.8 | 1606.8 | 1613.4 | 1606.4 | 1606.1 |
| 15° | 1596.8 | 1581.2 | 1588.1 | 1582.3 | 1579.4 |
| 17.5° | 1566.4 | 1549.4 | 1557.7 | 1549.5 | 1548.4 |
| 20° | 1543.2 | 1526.2 | 1534.5 | 1522.9 | 1522.9 |
| 22.5° | 1515.3 | 1498.3 | 1507.8 | 1492.7 | 1492.7 |
| 25° | 1470.7 | 1453.6 | 1460.5 | 1447.4 | 1446.0 |
| 27.5° | 1417.6 | 1400.8 | 1408.0 | 1393.2 | 1392.9 |
| 30° | 1379.3 | 1363.7 | 1372.0 | 1356.0 | 1354.6 |
| 32.5° | 1337.5 | 1323.0 | 1329.1 | 1313.1 | 1311.7 |
| 35° | 1270.5 | 1257.7 | 1261.8 | 1247.3 | 1245.8 |
| 37.5° | 1200.0 | 1187.0 | 1191.6 | 1179.1 | 1178.6 |
| 40° | 1150.1 | 1141.6 | 1142.9 | 1132.7 | 1129.8 |
| 42.5° | 1103.7 | 1094.1 | 1095.3 | 1085.1 | 1084.6 |
| 45° | 1032.6 | 1025.6 | 1025.4 | 1015.2 | 1015.2 |
| 47.5° | 957.2 | 951.8 | 950.3 | 941.8 | 941.6 |
| 50° | 905.0 | 900.8 | 899.2 | 891.9 | 890.5 |
| 52.5° | 850.5 | 848.5 | 843.5 | 837.4 | 837.1 |
| 55° | 765.8 | 762.9 | 755.6 | 751.2 | 749.8 |
| 57.5° | 673.8 | 668.2 | 659.9 | 653.6 | 654.7 |
| 60° | 607.7 | 602.0 | 590.3 | 587.4 | 587.4 |
| 62.5° | 543.9 | 537.1 | 525.3 | 521.3 | 523.6 |
| 65° | 452.5 | 444.0 | 433.7 | 430.8 | 432.2 |
| 67.5° | 369.5 | 361.9 | 350.7 | 350.7 | 349.5 |
| 70° | 316.2 | 311.9 | 303.1 | 303.1 | 303.1 |
| 72.5° | 268.6 | 266.6 | 260.2 | 260.2 | 259.0 |
| 75° | 205.9 | 205.9 | 203.0 | 201.6 | 200.1 |
| 77.5° | 154.3 | 154.9 | 153.4 | 151.9 | 149.4 |
| 80° | 121.8 | 124.7 | 123.3 | 121.8 | 120.4 |
| 82.5° | 91.7 | 94.5 | 94.3 | 91.7 | 91.4 |
| 85° | 47.9 | 52.1 | 52.2 | 52.2 | 52.2 |
| 87.5° | 12.8 | 17.3 | 18.6 | 18.6 | 19.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 8.6 | 45.4 | 105.4 | 30.7 | 23.1 |
| 95° | 27.8 | 110.6 | 497.0 | 172.0 | 106.0 |
| 97.5° | 51.2 | 129.5 | 765.4 | 547.7 | 375.3 |
| 100° | 67.5 | 140.8 | 823.7 | 834.3 | 642.7 |
| 102.5° | 85.5 | 152.9 | 810.8 | 1068.0 | 900.6 |
| 105° | 113.5 | 172.2 | 744.4 | 1314.9 | 1250.0 |
| 107.5° | 142.0 | 194.6 | 666.9 | 1384.6 | 1442.4 |
| 110° | 161.7 | 211.0 | 622.3 | 1357.9 | 1487.8 |

TEST NUMBER: P523756

CATALOG NUMBER: SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 180.6 | 227.3 | 592.3 | 1294.9 | 1480.1 |
| 115° | 211.0 | 255.0 | 564.5 | 1195.8 | 1404.3 |
| 117.5° | 237.8 | 279.1 | 548.0 | 1087.5 | 1308.3 |
| 120° | 259.2 | 293.8 | 546.3 | 1025.6 | 1237.2 |
| 122.5° | 276.4 | 310.9 | 542.0 | 971.3 | 1167.7 |
| 125° | 297.8 | 330.2 | 538.8 | 894.1 | 1069.0 |
| 127.5° | 321.1 | 351.5 | 537.1 | 848.0 | 992.1 |
| 130° | 333.1 | 363.5 | 534.5 | 815.8 | 941.5 |
| 132.5° | 346.0 | 375.5 | 534.5 | 790.8 | 906.4 |
| 135° | 364.2 | 394.6 | 532.4 | 755.2 | 853.7 |
| 137.5° | 381.3 | 410.9 | 532.1 | 725.2 | 810.2 |
| 140° | 394.2 | 424.5 | 531.3 | 700.2 | 781.9 |
| 142.5° | 408.7 | 434.1 | 533.9 | 680.3 | 753.6 |
| 145° | 429.5 | 451.5 | 536.6 | 653.7 | 712.3 |
| 147.5° | 447.3 | 468.7 | 541.4 | 626.7 | 677.4 |
| 150° | 462.7 | 477.4 | 543.1 | 617.8 | 653.4 |
| 152.5° | 474.7 | 490.2 | 544.8 | 605.7 | 638.8 |
| 155° | 490.6 | 502.1 | 549.5 | 590.7 | 614.8 |
| 157.5° | 510.3 | 517.2 | 550.6 | 583.9 | 601.1 |
| 160° | 520.6 | 525.8 | 554.8 | 578.7 | 593.4 |
| 162.5° | 526.6 | 532.6 | 555.7 | 574.4 | 585.7 |
| 165° | 542.0 | 544.1 | 555.9 | 567.9 | 576.3 |
| 167.5° | 552.5 | 550.6 | 560.8 | 566.3 | 569.6 |
| 170° | 555.9 | 554.9 | 559.1 | 560.3 | 564.5 |
| 172.5° | 563.6 | 560.1 | 561.7 | 558.6 | 561.9 |
| 175° | 567.7 | 564.6 | 562.3 | 559.0 | 554.8 |
| 177.5° | 569.4 | 564.4 | 561.7 | 558.3 | 559.1 |
| 180° | 563.4 | 563.4 | 563.4 | 563.4 | 563.4 |

(END OF REPORT)