

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: P561534

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6523.0 lumens
Efficiency: N/A
Efficacy: 117.3 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: General Diffuse

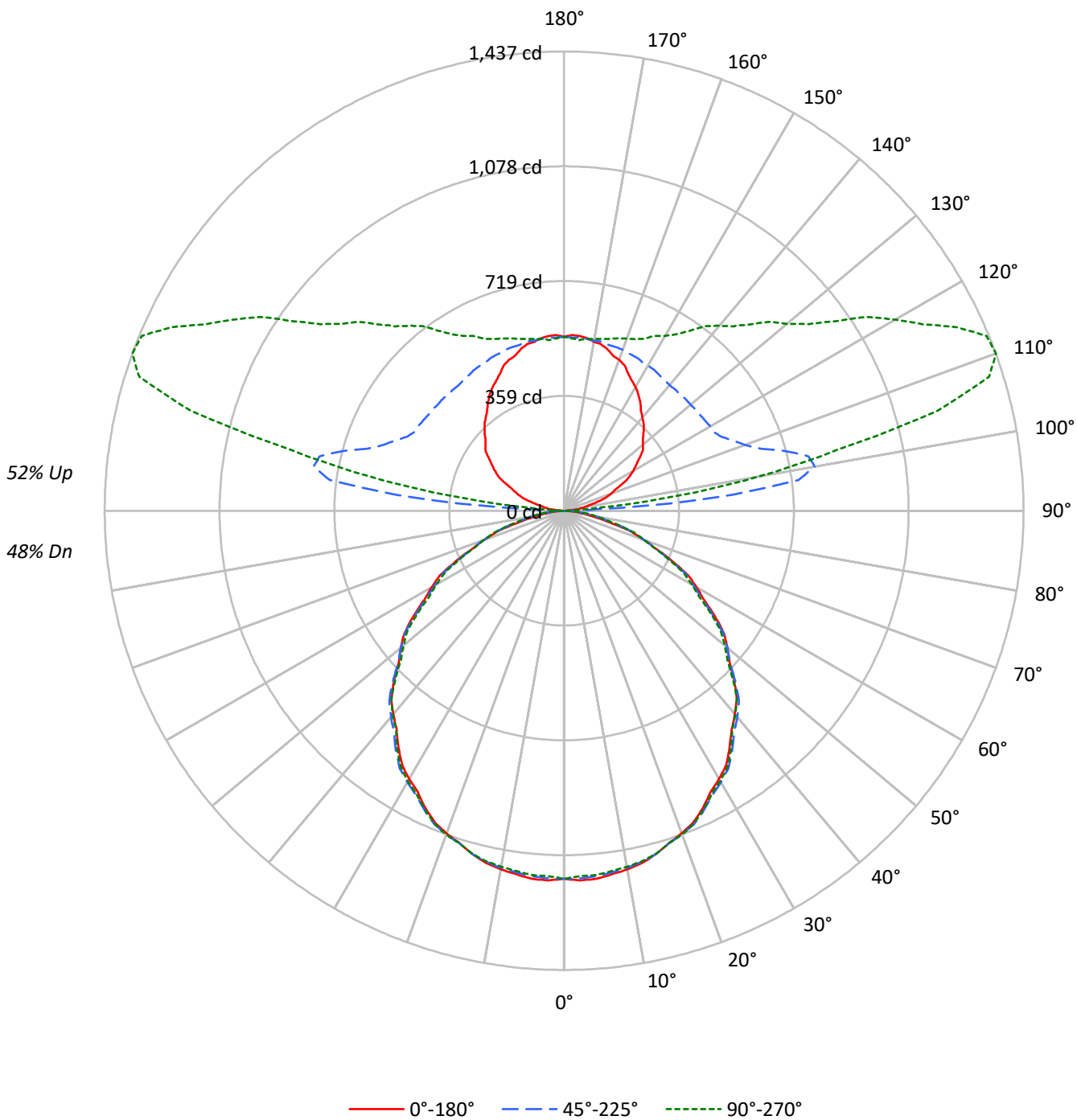
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561534

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561534

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)

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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 |
| 1 | 97 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 41 | 39 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |
| 6 | 62 | 50 | 42 | 37 | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7 | 58 | 45 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 |
| 8 | 54 | 41 | 33 | 28 | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 |
| 10 | 47 | 34 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10622 | 10622 | 10622 |
| 5° | 10703 | 10633 | 10594 |
| 10° | 10676 | 10627 | 10597 |
| 15° | 10620 | 10620 | 10610 |
| 20° | 10551 | 10582 | 10582 |
| 25° | 10451 | 10527 | 10495 |
| 30° | 10323 | 10449 | 10403 |
| 35° | 10169 | 10326 | 10254 |
| 40° | 10001 | 10143 | 10040 |
| 45° | 9820 | 9890 | 9736 |
| 50° | 9564 | 9564 | 9410 |
| 55° | 9260 | 9140 | 9003 |
| 60° | 8813 | 8636 | 8497 |
| 65° | 8145 | 7981 | 7914 |
| 70° | 7132 | 7189 | 7159 |
| 75° | 5739 | 6345 | 6384 |
| 80° | 4081 | 5382 | 5435 |
| 85° | 2488 | 4510 | 4510 |



TEST NUMBER: P561534

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.0 | 1.7 |
| 10°-20° | 312.7 | 4.8 |
| 20°-30° | 473.5 | 7.3 |
| 30°-40° | 567.7 | 8.7 |
| 40°-50° | 578.8 | 8.9 |
| 50°-60° | 505.3 | 7.7 |
| 60°-70° | 361.8 | 5.5 |
| 70°-80° | 186.3 | 2.9 |
| 80°-90° | 47.1 | 0.7 |
| 90°-100° | 248.0 | 3.8 |
| 100°-110° | 705.7 | 10.8 |
| 110°-120° | 676.1 | 10.4 |
| 120°-130° | 535.1 | 8.2 |
| 130°-140° | 429.5 | 6.6 |
| 140°-150° | 336.2 | 5.2 |
| 150°-160° | 246.0 | 3.8 |
| 160°-170° | 152.4 | 2.3 |
| 170°-180° | 51.7 | 0.8 |
| 0°-30° | 895.2 | 13.7 |
| 0°-40° | 1462.9 | 22.4 |
| 0°-60° | 2547.0 | 39.0 |
| 0°-90° | 3142.2 | 48.2 |
| 90°-120° | 1629.8 | 25.0 |
| 90°-150° | 2930.6 | 44.9 |
| 90°-180° | 3381.0 | 51.8 |
| 0°-180° | 6523.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1151 | 1151 | 1151 | 1151 | 1151 | |
| 5° | 1156 | 1144 | 1148 | 1145 | 1144 | 110 |
| 15° | 1112 | 1102 | 1112 | 1112 | 1111 | 314 |
| 25° | 1027 | 1019 | 1034 | 1031 | 1031 | 472 |
| 35° | 903 | 901 | 917 | 910 | 910 | 565 |
| 45° | 753 | 750 | 758 | 748 | 746 | 579 |
| 55° | 576 | 568 | 568 | 560 | 560 | 513 |
| 65° | 373 | 365 | 366 | 362 | 362 | 369 |
| 75° | 161 | 168 | 178 | 179 | 179 | 174 |
| 85° | 24 | 36 | 43 | 44 | 43 | 32 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 27 | 107 | 480 | 166 | 102 | 31 |
| 105° | 110 | 166 | 719 | 1270 | 1208 | 116 |
| 115° | 204 | 246 | 545 | 1155 | 1356 | 201 |
| 125° | 288 | 319 | 520 | 864 | 1033 | 257 |
| 135° | 352 | 381 | 514 | 730 | 825 | 271 |
| 145° | 415 | 436 | 518 | 631 | 688 | 259 |
| 155° | 474 | 485 | 531 | 571 | 594 | 219 |
| 165° | 524 | 526 | 537 | 549 | 557 | 147 |
| 175° | 548 | 545 | 543 | 540 | 536 | 52 |
| 180° | 544 | 544 | 544 | 544 | 544 | |

TEST NUMBER: P561534

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 |
| 2.5° | 1158.1 | 1148.1 | 1151.3 | 1148.7 | 1144.5 |
| 5° | 1155.6 | 1144.1 | 1148.1 | 1144.9 | 1143.9 |
| 7.5° | 1147.3 | 1135.8 | 1141.1 | 1138.9 | 1137.9 |
| 10° | 1139.6 | 1128.1 | 1134.3 | 1132.1 | 1131.1 |
| 12.5° | 1129.4 | 1118.7 | 1125.7 | 1123.6 | 1123.4 |
| 15° | 1111.9 | 1102.5 | 1111.9 | 1111.9 | 1110.8 |
| 17.5° | 1089.9 | 1081.4 | 1091.4 | 1092.0 | 1091.4 |
| 20° | 1074.6 | 1065.2 | 1077.8 | 1076.7 | 1077.8 |
| 22.5° | 1055.8 | 1048.1 | 1061.6 | 1058.8 | 1059.9 |
| 25° | 1026.6 | 1019.3 | 1034.1 | 1030.9 | 1030.9 |
| 27.5° | 992.1 | 986.8 | 1002.9 | 999.5 | 999.5 |
| 30° | 969.0 | 963.8 | 980.8 | 976.5 | 976.5 |
| 32.5° | 943.4 | 939.9 | 956.0 | 950.9 | 950.9 |
| 35° | 902.9 | 900.8 | 916.8 | 910.4 | 910.4 |
| 37.5° | 861.1 | 859.3 | 873.7 | 866.0 | 863.5 |
| 40° | 830.4 | 829.4 | 842.2 | 833.6 | 833.6 |
| 42.5° | 799.7 | 798.7 | 809.8 | 799.5 | 799.5 |
| 45° | 752.6 | 750.5 | 758.0 | 748.3 | 746.2 |
| 47.5° | 701.2 | 699.2 | 703.8 | 693.3 | 692.3 |
| 50° | 666.3 | 664.2 | 666.3 | 656.7 | 655.6 |
| 52.5° | 630.5 | 626.7 | 627.0 | 617.4 | 617.2 |
| 55° | 575.7 | 568.4 | 568.2 | 559.7 | 559.7 |
| 57.5° | 517.7 | 508.1 | 508.9 | 501.7 | 500.6 |
| 60° | 477.6 | 467.2 | 468.0 | 461.6 | 460.5 |
| 62.5° | 438.4 | 426.3 | 428.8 | 421.5 | 421.3 |
| 65° | 373.1 | 364.8 | 365.6 | 362.5 | 362.5 |
| 67.5° | 310.4 | 302.7 | 308.3 | 305.7 | 305.5 |
| 70° | 264.4 | 259.2 | 266.5 | 266.5 | 265.4 |
| 72.5° | 221.7 | 221.5 | 230.7 | 230.7 | 231.3 |
| 75° | 161.0 | 168.3 | 178.0 | 179.1 | 179.1 |
| 77.5° | 107.5 | 120.4 | 131.1 | 131.5 | 131.3 |
| 80° | 76.8 | 91.3 | 101.3 | 103.4 | 102.3 |
| 82.5° | 52.0 | 67.4 | 75.7 | 77.8 | 76.8 |
| 85° | 23.5 | 36.0 | 42.6 | 43.7 | 42.6 |
| 87.5° | 6.8 | 14.3 | 17.1 | 17.0 | 15.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 8.3 | 43.9 | 101.8 | 29.6 | 22.3 |
| 95° | 26.9 | 106.8 | 480.1 | 166.2 | 102.4 |
| 97.5° | 49.5 | 125.1 | 739.4 | 529.1 | 362.6 |
| 100° | 65.2 | 136.0 | 795.7 | 806.0 | 620.8 |
| 102.5° | 82.6 | 147.7 | 783.3 | 1031.7 | 870.0 |
| 105° | 109.7 | 166.3 | 719.1 | 1270.2 | 1207.5 |
| 107.5° | 137.2 | 188.0 | 644.2 | 1337.5 | 1393.4 |
| 110° | 156.2 | 203.8 | 601.2 | 1311.8 | 1437.2 |

TEST NUMBER: P561534

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 174.5 | 219.6 | 572.2 | 1250.9 | 1429.8 |
| 115° | 203.8 | 246.3 | 545.3 | 1155.2 | 1356.5 |
| 117.5° | 229.7 | 269.6 | 529.4 | 1050.5 | 1263.8 |
| 120° | 250.4 | 283.8 | 527.7 | 990.7 | 1195.1 |
| 122.5° | 267.0 | 300.3 | 523.6 | 938.3 | 1128.1 |
| 125° | 287.7 | 319.0 | 520.5 | 863.7 | 1032.7 |
| 127.5° | 310.2 | 339.5 | 518.8 | 819.1 | 958.4 |
| 130° | 321.8 | 351.1 | 516.3 | 788.1 | 909.5 |
| 132.5° | 334.2 | 362.7 | 516.3 | 763.9 | 875.6 |
| 135° | 351.8 | 381.1 | 514.3 | 729.6 | 824.7 |
| 137.5° | 368.4 | 396.9 | 514.0 | 700.5 | 782.7 |
| 140° | 380.8 | 410.1 | 513.2 | 676.4 | 755.3 |
| 142.5° | 394.8 | 419.3 | 515.7 | 657.2 | 728.0 |
| 145° | 414.9 | 436.2 | 518.4 | 631.4 | 688.1 |
| 147.5° | 432.1 | 452.7 | 522.9 | 605.4 | 654.4 |
| 150° | 447.0 | 461.2 | 524.6 | 596.8 | 631.2 |
| 152.5° | 458.6 | 473.6 | 526.3 | 585.1 | 617.1 |
| 155° | 473.9 | 485.0 | 530.8 | 570.7 | 593.9 |
| 157.5° | 492.9 | 499.6 | 531.8 | 564.1 | 580.7 |
| 160° | 502.9 | 507.9 | 536.0 | 559.1 | 573.2 |
| 162.5° | 508.7 | 514.5 | 536.8 | 554.9 | 565.8 |
| 165° | 523.6 | 525.6 | 537.0 | 548.6 | 556.7 |
| 167.5° | 533.7 | 531.9 | 541.8 | 547.0 | 550.3 |
| 170° | 537.0 | 536.0 | 540.1 | 541.3 | 545.3 |
| 172.5° | 544.5 | 541.0 | 542.6 | 539.6 | 542.8 |
| 175° | 548.4 | 545.4 | 543.2 | 540.0 | 536.0 |
| 177.5° | 550.1 | 545.2 | 542.6 | 539.3 | 540.1 |
| 180° | 544.3 | 544.3 | 544.3 | 544.3 | 544.3 |

(END OF REPORT)