

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: P562615

Luminaire Tested: **SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562615
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

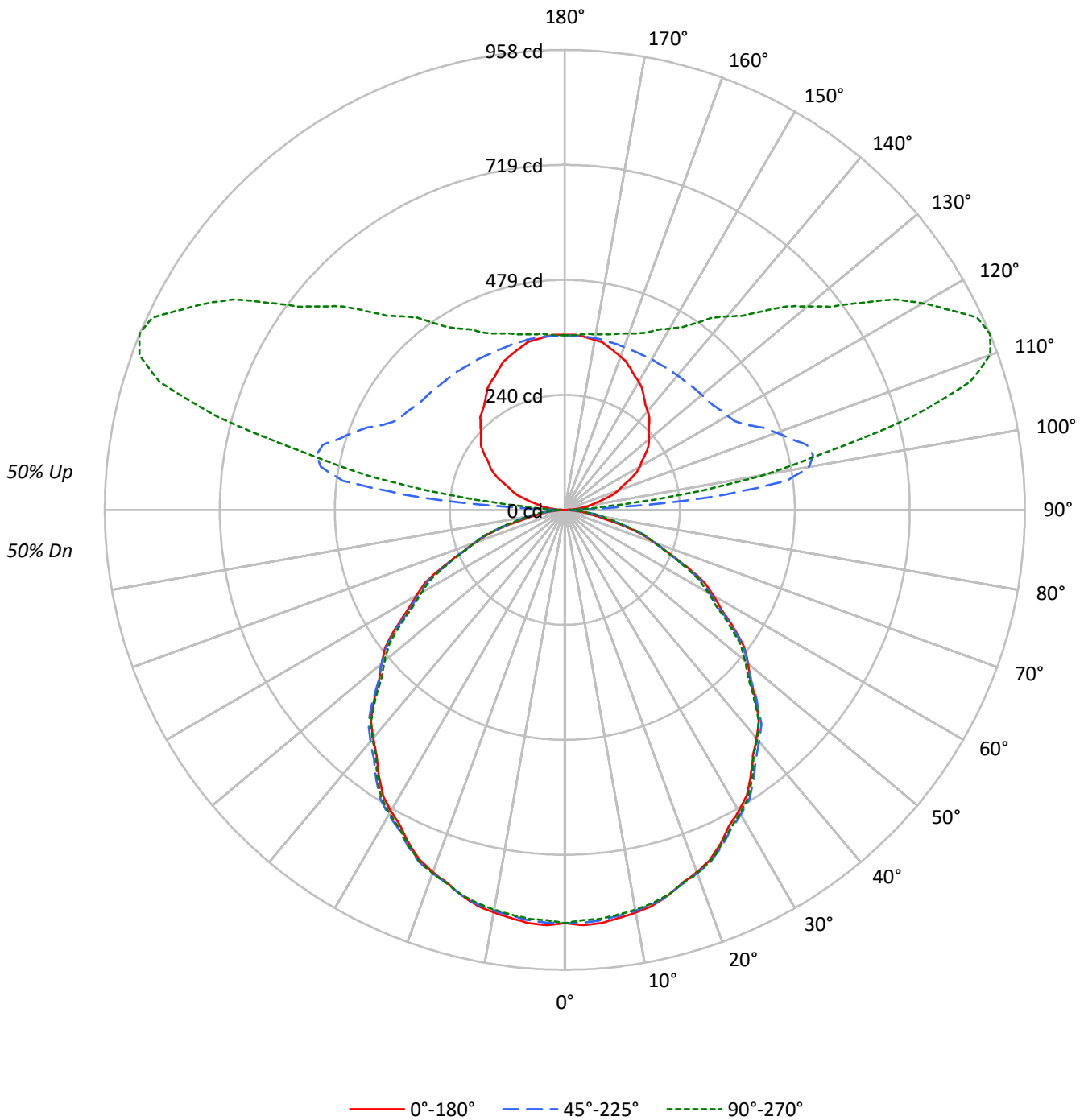
Lumens per Lamp: N/A
Luminaire Lumens: 4728.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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: P562615
CATALOG NUMBER: SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562615

CATALOG NUMBER: SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6

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 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 49 | 48 | 47 | 42 |
| 2 | 89 | 82 | 76 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3 | 81 | 72 | 64 | 59 | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4 | 74 | 63 | 56 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 32 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5294 | 5294 | 5294 |
| 5° | 5334 | 5299 | 5280 |
| 10° | 5321 | 5296 | 5281 |
| 15° | 5293 | 5293 | 5288 |
| 20° | 5258 | 5274 | 5274 |
| 25° | 5209 | 5246 | 5230 |
| 30° | 5145 | 5207 | 5185 |
| 35° | 5068 | 5146 | 5110 |
| 40° | 4985 | 5055 | 5004 |
| 45° | 4894 | 4929 | 4853 |
| 50° | 4766 | 4766 | 4690 |
| 55° | 4615 | 4555 | 4487 |
| 60° | 4392 | 4304 | 4235 |
| 65° | 4059 | 3979 | 3944 |
| 70° | 3554 | 3582 | 3568 |
| 75° | 2859 | 3163 | 3182 |
| 80° | 2033 | 2681 | 2710 |
| 85° | 1235 | 2251 | 2251 |



TEST NUMBER: P562615

CATALOG NUMBER: SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.5 | 1.7 |
| 10°-20° | 233.8 | 4.9 |
| 20°-30° | 354.0 | 7.5 |
| 30°-40° | 424.4 | 9.0 |
| 40°-50° | 432.7 | 9.2 |
| 50°-60° | 377.7 | 8.0 |
| 60°-70° | 270.4 | 5.7 |
| 70°-80° | 139.3 | 2.9 |
| 80°-90° | 36.6 | 0.8 |
| 90°-100° | 174.8 | 3.7 |
| 100°-110° | 474.9 | 10.0 |
| 110°-120° | 488.2 | 10.3 |
| 120°-130° | 390.4 | 8.3 |
| 130°-140° | 306.7 | 6.5 |
| 140°-150° | 235.2 | 5.0 |
| 150°-160° | 169.1 | 3.6 |
| 160°-170° | 103.4 | 2.2 |
| 170°-180° | 34.8 | 0.7 |
| 0°-30° | 669.2 | 14.2 |
| 0°-40° | 1093.6 | 23.1 |
| 0°-60° | 1904.1 | 40.3 |
| 0°-90° | 2350.4 | 49.7 |
| 90°-120° | 1137.9 | 24.1 |
| 90°-150° | 2070.2 | 43.8 |
| 90°-180° | 2378.0 | 50.3 |
| 0°-180° | 4728.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 861 | 861 | 861 | 861 | 861 | |
| 5° | 864 | 855 | 858 | 856 | 855 | 82 |
| 15° | 831 | 824 | 831 | 831 | 830 | 234 |
| 25° | 768 | 762 | 773 | 771 | 771 | 353 |
| 35° | 675 | 674 | 685 | 681 | 681 | 422 |
| 45° | 563 | 561 | 567 | 559 | 558 | 433 |
| 55° | 430 | 425 | 425 | 418 | 418 | 384 |
| 65° | 279 | 273 | 273 | 271 | 271 | 276 |
| 75° | 120 | 126 | 133 | 134 | 134 | 130 |
| 85° | 18 | 27 | 32 | 33 | 32 | 24 |
| 90° | 1 | 5 | 8 | 10 | 10 | 2 |
| 95° | 26 | 96 | 304 | 132 | 89 | 27 |
| 105° | 84 | 131 | 522 | 795 | 748 | 90 |
| 115° | 150 | 182 | 418 | 832 | 947 | 148 |
| 125° | 206 | 235 | 378 | 637 | 752 | 184 |
| 135° | 248 | 276 | 368 | 519 | 585 | 192 |
| 145° | 287 | 308 | 363 | 441 | 474 | 180 |
| 155° | 324 | 336 | 361 | 396 | 408 | 150 |
| 165° | 351 | 356 | 362 | 377 | 378 | 99 |
| 175° | 364 | 365 | 363 | 368 | 366 | 35 |
| 180° | 364 | 364 | 364 | 364 | 364 | |

TEST NUMBER: P562615

CATALOG NUMBER: SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 860.7 | 860.7 | 860.7 | 860.7 | 860.7 |
| 2.5° | 865.8 | 858.3 | 860.7 | 858.7 | 855.6 |
| 5° | 863.9 | 855.3 | 858.3 | 855.9 | 855.1 |
| 7.5° | 857.7 | 849.1 | 853.1 | 851.4 | 850.7 |
| 10° | 851.9 | 843.4 | 848.0 | 846.3 | 845.6 |
| 12.5° | 844.3 | 836.3 | 841.6 | 840.0 | 839.8 |
| 15° | 831.2 | 824.2 | 831.2 | 831.2 | 830.4 |
| 17.5° | 814.8 | 808.4 | 815.9 | 816.4 | 815.9 |
| 20° | 803.3 | 796.3 | 805.7 | 804.9 | 805.7 |
| 22.5° | 789.3 | 783.5 | 793.6 | 791.5 | 792.3 |
| 25° | 767.5 | 762.0 | 773.0 | 770.6 | 770.6 |
| 27.5° | 741.6 | 737.7 | 749.8 | 747.2 | 747.2 |
| 30° | 724.4 | 720.5 | 733.2 | 730.0 | 730.0 |
| 32.5° | 705.3 | 702.6 | 714.7 | 710.9 | 710.9 |
| 35° | 675.0 | 673.5 | 685.4 | 680.6 | 680.6 |
| 37.5° | 643.8 | 642.4 | 653.2 | 647.4 | 645.5 |
| 40° | 620.8 | 620.0 | 629.6 | 623.2 | 623.2 |
| 42.5° | 597.9 | 597.1 | 605.4 | 597.7 | 597.7 |
| 45° | 562.6 | 561.1 | 566.6 | 559.4 | 557.9 |
| 47.5° | 524.2 | 522.7 | 526.1 | 518.3 | 517.5 |
| 50° | 498.1 | 496.5 | 498.1 | 490.9 | 490.1 |
| 52.5° | 471.3 | 468.5 | 468.8 | 461.6 | 461.4 |
| 55° | 430.4 | 424.9 | 424.8 | 418.4 | 418.4 |
| 57.5° | 387.0 | 379.8 | 380.5 | 375.0 | 374.2 |
| 60° | 357.0 | 349.2 | 349.9 | 345.1 | 344.3 |
| 62.5° | 327.7 | 318.7 | 320.5 | 315.1 | 315.0 |
| 65° | 278.9 | 272.7 | 273.4 | 271.0 | 271.0 |
| 67.5° | 232.1 | 226.3 | 230.5 | 228.6 | 228.4 |
| 70° | 197.6 | 193.7 | 199.2 | 199.2 | 198.4 |
| 72.5° | 165.8 | 165.6 | 172.5 | 172.5 | 172.9 |
| 75° | 120.3 | 125.8 | 133.1 | 133.9 | 133.9 |
| 77.5° | 80.3 | 90.0 | 98.0 | 98.3 | 98.2 |
| 80° | 57.4 | 68.3 | 75.7 | 77.3 | 76.5 |
| 82.5° | 38.9 | 50.4 | 56.6 | 58.2 | 57.4 |
| 85° | 17.5 | 26.9 | 31.9 | 32.7 | 31.9 |
| 87.5° | 5.3 | 11.6 | 14.4 | 14.8 | 13.6 |
| 90° | 1.2 | 4.6 | 8.2 | 10.5 | 10.5 |
| 92.5° | 10.5 | 47.9 | 83.1 | 35.7 | 30.2 |
| 95° | 25.8 | 95.6 | 304.4 | 132.5 | 89.0 |
| 97.5° | 42.6 | 105.6 | 466.7 | 363.1 | 255.0 |
| 100° | 53.9 | 112.2 | 516.4 | 523.4 | 422.7 |
| 102.5° | 65.1 | 118.9 | 529.5 | 647.4 | 558.5 |
| 105° | 84.3 | 131.2 | 522.2 | 795.1 | 748.2 |
| 107.5° | 104.2 | 145.7 | 492.0 | 871.4 | 884.5 |
| 110° | 118.3 | 156.0 | 469.5 | 886.5 | 942.6 |



TEST NUMBER: P562615

CATALOG NUMBER: SQ4-PC3-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 130.4 | 166.4 | 447.0 | 874.0 | 958.5 |
| 115° | 149.9 | 181.9 | 418.0 | 831.6 | 947.2 |
| 117.5° | 168.1 | 198.8 | 399.5 | 771.5 | 901.8 |
| 120° | 180.3 | 210.1 | 391.1 | 731.2 | 860.6 |
| 122.5° | 190.6 | 220.4 | 385.5 | 690.9 | 815.6 |
| 125° | 206.1 | 234.7 | 378.2 | 637.2 | 751.7 |
| 127.5° | 219.9 | 248.3 | 374.2 | 596.6 | 694.8 |
| 130° | 228.3 | 255.8 | 372.3 | 571.1 | 659.2 |
| 132.5° | 236.8 | 264.2 | 370.5 | 549.3 | 627.4 |
| 135° | 248.2 | 275.7 | 367.7 | 519.0 | 585.4 |
| 137.5° | 260.6 | 285.6 | 366.3 | 492.3 | 548.2 |
| 140° | 268.1 | 292.2 | 365.3 | 475.4 | 525.7 |
| 142.5° | 275.6 | 297.8 | 364.4 | 462.1 | 504.2 |
| 145° | 286.9 | 307.5 | 363.0 | 441.0 | 474.2 |
| 147.5° | 299.5 | 317.1 | 361.8 | 424.5 | 450.6 |
| 150° | 307.9 | 322.8 | 361.8 | 415.0 | 435.6 |
| 152.5° | 314.5 | 327.6 | 360.9 | 406.4 | 423.4 |
| 155° | 324.3 | 335.8 | 360.6 | 396.0 | 407.5 |
| 157.5° | 333.9 | 342.9 | 360.6 | 388.9 | 397.6 |
| 160° | 339.6 | 347.6 | 360.6 | 384.2 | 391.1 |
| 162.5° | 345.2 | 351.4 | 361.6 | 380.4 | 385.5 |
| 165° | 351.3 | 355.8 | 361.8 | 377.1 | 378.2 |
| 167.5° | 357.6 | 359.9 | 363.0 | 373.1 | 374.0 |
| 170° | 359.5 | 361.8 | 363.0 | 371.2 | 371.2 |
| 172.5° | 361.3 | 362.7 | 363.0 | 369.3 | 369.3 |
| 175° | 364.1 | 365.3 | 363.0 | 367.6 | 366.5 |
| 177.5° | 365.1 | 365.1 | 362.3 | 366.0 | 364.1 |
| 180° | 364.1 | 364.1 | 364.1 | 364.1 | 364.1 |

(END OF REPORT)