

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: P562597

Luminaire Tested: **SQ4-PC3-025U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562597
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15287.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

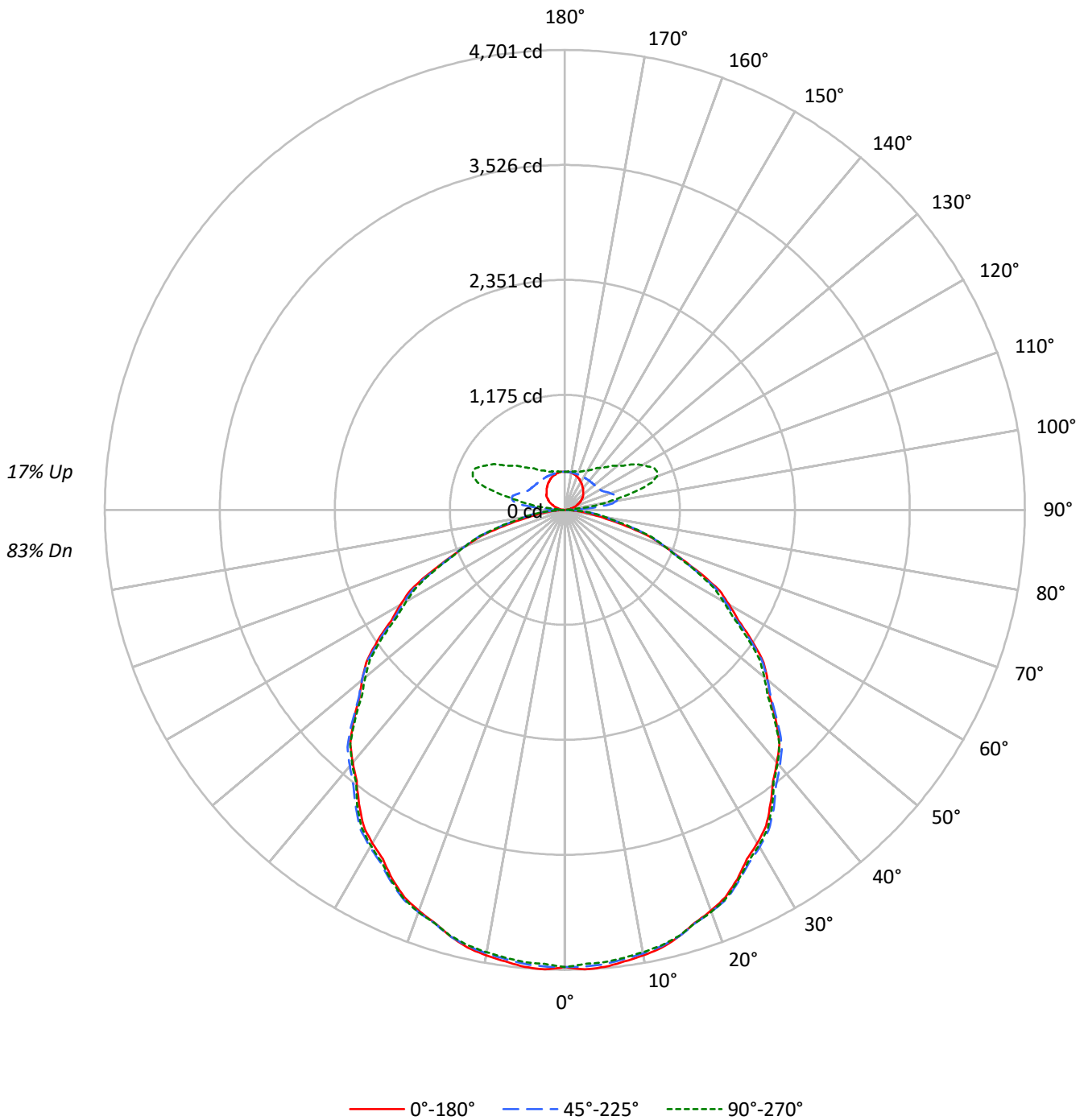
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P562597

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 83 | | | | 83 |
| 1 | 105 | 101 | 97 | 93 | 101 | 97 | 93 | 90 | 90 | 87 | 84 | 83 | 81 | 79 | 77 | 75 | 74 | 71 | | | | 71 |
| 2 | 96 | 88 | 82 | 76 | 92 | 85 | 79 | 74 | 79 | 74 | 70 | 73 | 69 | 66 | 68 | 65 | 62 | 59 | | | | 59 |
| 3 | 88 | 78 | 70 | 64 | 84 | 75 | 68 | 62 | 69 | 64 | 59 | 65 | 60 | 56 | 60 | 56 | 53 | 50 | | | | 50 |
| 4 | 80 | 69 | 60 | 54 | 77 | 66 | 59 | 53 | 62 | 55 | 50 | 58 | 52 | 48 | 54 | 49 | 45 | 43 | | | | 43 |
| 5 | 74 | 61 | 53 | 46 | 71 | 59 | 51 | 45 | 55 | 49 | 43 | 52 | 46 | 41 | 48 | 43 | 40 | 37 | | | | 37 |
| 6 | 68 | 55 | 47 | 40 | 65 | 53 | 45 | 40 | 50 | 43 | 38 | 47 | 41 | 36 | 44 | 39 | 35 | 32 | | | | 32 |
| 7 | 63 | 50 | 42 | 36 | 60 | 48 | 41 | 35 | 45 | 39 | 34 | 43 | 37 | 32 | 40 | 35 | 31 | 29 | | | | 29 |
| 8 | 59 | 46 | 37 | 32 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 39 | 33 | 29 | 37 | 32 | 28 | 26 | | | | 26 |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 34 | 29 | 25 | 23 | | | | 23 |
| 10 | 51 | 38 | 31 | 26 | 49 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 31 | 26 | 23 | 21 | | | | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14373 | 14373 | 14373 |
| 5° | 14482 | 14388 | 14335 |
| 10° | 14446 | 14379 | 14338 |
| 15° | 14370 | 14370 | 14356 |
| 20° | 14276 | 14318 | 14318 |
| 25° | 14141 | 14243 | 14200 |
| 30° | 13969 | 14138 | 14076 |
| 35° | 13761 | 13972 | 13875 |
| 40° | 13533 | 13724 | 13586 |
| 45° | 13287 | 13382 | 13175 |
| 50° | 12940 | 12940 | 12733 |
| 55° | 12529 | 12367 | 12181 |
| 60° | 11925 | 11685 | 11498 |
| 65° | 11022 | 10801 | 10707 |
| 70° | 9650 | 9727 | 9689 |
| 75° | 7764 | 8587 | 8639 |
| 80° | 5519 | 7281 | 7357 |
| 85° | 3359 | 6108 | 6108 |



TEST NUMBER: P562597

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 442.3 | 2.9 |
| 10°-20° | 1269.3 | 8.3 |
| 20°-30° | 1922.2 | 12.6 |
| 30°-40° | 2304.4 | 15.1 |
| 40°-50° | 2349.7 | 15.4 |
| 50°-60° | 2051.2 | 13.4 |
| 60°-70° | 1468.4 | 9.6 |
| 70°-80° | 756.3 | 4.9 |
| 80°-90° | 193.3 | 1.3 |
| 90°-100° | 190.3 | 1.2 |
| 100°-110° | 500.2 | 3.3 |
| 110°-120° | 518.7 | 3.4 |
| 120°-130° | 416.0 | 2.7 |
| 130°-140° | 326.4 | 2.1 |
| 140°-150° | 250.5 | 1.6 |
| 150°-160° | 180.4 | 1.2 |
| 160°-170° | 110.4 | 0.7 |
| 170°-180° | 37.3 | 0.2 |
| 0°-30° | 3633.7 | 23.8 |
| 0°-40° | 5938.1 | 38.8 |
| 0°-60° | 10339.0 | 67.6 |
| 0°-90° | 12757.1 | 83.4 |
| 90°-120° | 1209.1 | 7.9 |
| 90°-150° | 2202.1 | 14.4 |
| 90°-180° | 2530.0 | 16.5 |
| 0°-180° | 15287.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4674 | 4674 | 4674 | 4674 | 4674 | |
| 5° | 4691 | 4644 | 4661 | 4648 | 4643 | 445 |
| 15° | 4513 | 4475 | 4513 | 4513 | 4509 | 1273 |
| 25° | 4167 | 4138 | 4198 | 4185 | 4185 | 1918 |
| 35° | 3665 | 3657 | 3722 | 3696 | 3696 | 2292 |
| 45° | 3055 | 3047 | 3077 | 3038 | 3029 | 2352 |
| 55° | 2337 | 2307 | 2306 | 2272 | 2272 | 2083 |
| 65° | 1515 | 1481 | 1484 | 1471 | 1471 | 1498 |
| 75° | 653 | 683 | 723 | 727 | 727 | 706 |
| 85° | 95 | 146 | 173 | 177 | 173 | 129 |
| 90° | 2 | 7 | 20 | 10 | 10 | 6 |
| 95° | 25 | 98 | 328 | 169 | 115 | 28 |
| 105° | 90 | 137 | 553 | 840 | 783 | 95 |
| 115° | 160 | 194 | 443 | 884 | 1008 | 158 |
| 125° | 223 | 250 | 403 | 681 | 803 | 198 |
| 135° | 265 | 292 | 390 | 550 | 623 | 205 |
| 145° | 308 | 327 | 385 | 469 | 506 | 193 |
| 155° | 348 | 358 | 385 | 423 | 435 | 160 |
| 165° | 375 | 380 | 385 | 400 | 405 | 106 |
| 175° | 390 | 390 | 388 | 393 | 393 | 37 |
| 180° | 390 | 390 | 390 | 390 | 390 | |



TEST NUMBER: P562597

CATALOG NUMBER: SQ4-PC3-025U-125D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4673.6 | 4673.6 | 4673.6 | 4673.6 | 4673.6 |
| 2.5° | 4701.2 | 4660.6 | 4673.6 | 4662.8 | 4645.9 |
| 5° | 4690.9 | 4644.3 | 4660.6 | 4647.5 | 4643.3 |
| 7.5° | 4657.1 | 4610.6 | 4632.0 | 4623.3 | 4619.0 |
| 10° | 4625.9 | 4579.4 | 4604.3 | 4595.6 | 4591.3 |
| 12.5° | 4584.4 | 4541.2 | 4569.7 | 4561.0 | 4560.2 |
| 15° | 4513.4 | 4475.4 | 4513.4 | 4513.3 | 4509.1 |
| 17.5° | 4424.3 | 4389.6 | 4430.4 | 4432.9 | 4430.4 |
| 20° | 4362.0 | 4323.9 | 4375.0 | 4370.7 | 4375.0 |
| 22.5° | 4285.8 | 4254.5 | 4309.2 | 4298.0 | 4302.3 |
| 25° | 4167.2 | 4137.6 | 4197.5 | 4184.6 | 4184.6 |
| 27.5° | 4027.0 | 4005.9 | 4071.2 | 4057.3 | 4057.3 |
| 30° | 3933.6 | 3912.4 | 3981.2 | 3963.9 | 3963.9 |
| 32.5° | 3829.7 | 3815.3 | 3880.8 | 3860.0 | 3860.0 |
| 35° | 3665.3 | 3656.8 | 3721.5 | 3695.6 | 3695.6 |
| 37.5° | 3495.6 | 3488.0 | 3546.7 | 3515.3 | 3505.2 |
| 40° | 3371.0 | 3366.8 | 3418.6 | 3384.0 | 3384.0 |
| 42.5° | 3246.4 | 3242.2 | 3287.1 | 3245.5 | 3245.5 |
| 45° | 3055.1 | 3046.7 | 3076.8 | 3037.6 | 3029.2 |
| 47.5° | 2846.5 | 2838.1 | 2856.9 | 2814.4 | 2810.2 |
| 50° | 2704.6 | 2696.1 | 2704.6 | 2665.6 | 2661.3 |
| 52.5° | 2559.2 | 2544.0 | 2545.4 | 2506.4 | 2505.5 |
| 55° | 2336.8 | 2307.2 | 2306.5 | 2271.9 | 2271.9 |
| 57.5° | 2101.4 | 2062.4 | 2065.9 | 2036.4 | 2032.1 |
| 60° | 1938.7 | 1896.3 | 1899.7 | 1873.7 | 1869.4 |
| 62.5° | 1779.4 | 1730.3 | 1740.5 | 1711.0 | 1710.2 |
| 65° | 1514.6 | 1480.7 | 1484.3 | 1471.3 | 1471.3 |
| 67.5° | 1260.1 | 1228.8 | 1251.5 | 1241.1 | 1240.2 |
| 70° | 1073.2 | 1052.0 | 1081.8 | 1081.7 | 1077.5 |
| 72.5° | 900.1 | 899.2 | 936.4 | 936.5 | 939.0 |
| 75° | 653.4 | 683.0 | 722.7 | 727.0 | 727.0 |
| 77.5° | 436.2 | 488.7 | 532.3 | 534.0 | 533.1 |
| 80° | 311.6 | 370.8 | 411.1 | 419.7 | 415.4 |
| 82.5° | 211.2 | 273.8 | 307.2 | 315.8 | 311.6 |
| 85° | 95.2 | 146.0 | 173.1 | 177.3 | 173.1 |
| 87.5° | 28.2 | 59.6 | 73.2 | 71.1 | 64.3 |
| 90° | 2.5 | 7.4 | 20.0 | 10.0 | 10.0 |
| 92.5° | 10.5 | 50.6 | 112.1 | 49.6 | 32.0 |
| 95° | 25.0 | 98.4 | 327.8 | 168.9 | 115.1 |
| 97.5° | 43.5 | 108.1 | 490.5 | 390.0 | 287.3 |
| 100° | 57.6 | 116.3 | 540.5 | 547.8 | 425.4 |
| 102.5° | 69.6 | 124.4 | 554.5 | 682.3 | 577.6 |
| 105° | 90.1 | 136.6 | 553.0 | 839.5 | 783.3 |
| 107.5° | 111.1 | 154.2 | 521.5 | 921.2 | 934.9 |
| 110° | 125.1 | 164.3 | 495.5 | 942.2 | 1001.0 |



TEST NUMBER: P562597

CATALOG NUMBER: SQ4-PC3-025U-125D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 139.1 | 176.3 | 471.5 | 928.9 | 1019.0 |
| 115° | 160.2 | 194.4 | 442.9 | 883.7 | 1008.5 |
| 117.5° | 180.7 | 212.0 | 423.4 | 820.9 | 959.4 |
| 120° | 192.7 | 222.0 | 415.4 | 778.8 | 913.4 |
| 122.5° | 204.7 | 234.1 | 409.4 | 736.7 | 869.3 |
| 125° | 222.7 | 249.6 | 402.9 | 680.9 | 803.3 |
| 127.5° | 237.2 | 264.6 | 397.4 | 636.0 | 739.2 |
| 130° | 245.2 | 274.6 | 395.4 | 607.8 | 703.2 |
| 132.5° | 253.2 | 282.6 | 393.4 | 583.5 | 669.1 |
| 135° | 265.3 | 292.2 | 390.4 | 549.7 | 623.1 |
| 137.5° | 277.8 | 304.2 | 389.9 | 524.4 | 584.6 |
| 140° | 287.8 | 312.2 | 387.9 | 504.3 | 560.5 |
| 142.5° | 295.8 | 318.3 | 387.9 | 490.1 | 538.5 |
| 145° | 307.8 | 327.4 | 385.4 | 468.8 | 505.5 |
| 147.5° | 319.8 | 338.9 | 385.4 | 451.1 | 481.5 |
| 150° | 327.8 | 344.9 | 385.4 | 441.0 | 465.4 |
| 152.5° | 335.8 | 349.0 | 385.4 | 432.8 | 451.4 |
| 155° | 347.8 | 357.6 | 385.4 | 423.2 | 435.4 |
| 157.5° | 356.8 | 366.1 | 385.4 | 414.6 | 423.4 |
| 160° | 362.8 | 370.2 | 385.4 | 410.5 | 415.4 |
| 162.5° | 368.9 | 374.2 | 385.4 | 406.5 | 411.4 |
| 165° | 375.4 | 380.3 | 385.4 | 400.5 | 405.4 |
| 167.5° | 381.4 | 383.8 | 387.9 | 397.9 | 399.9 |
| 170° | 385.4 | 387.8 | 387.9 | 397.9 | 397.9 |
| 172.5° | 387.4 | 387.9 | 387.9 | 395.8 | 393.9 |
| 175° | 390.4 | 390.4 | 387.9 | 392.9 | 392.9 |
| 177.5° | 390.4 | 390.4 | 388.4 | 392.3 | 390.4 |
| 180° | 390.4 | 390.4 | 390.4 | 390.4 | 390.4 |

(END OF REPORT)