

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: P562520

Luminaire Tested: **SQ4-PC3-025U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562520
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-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

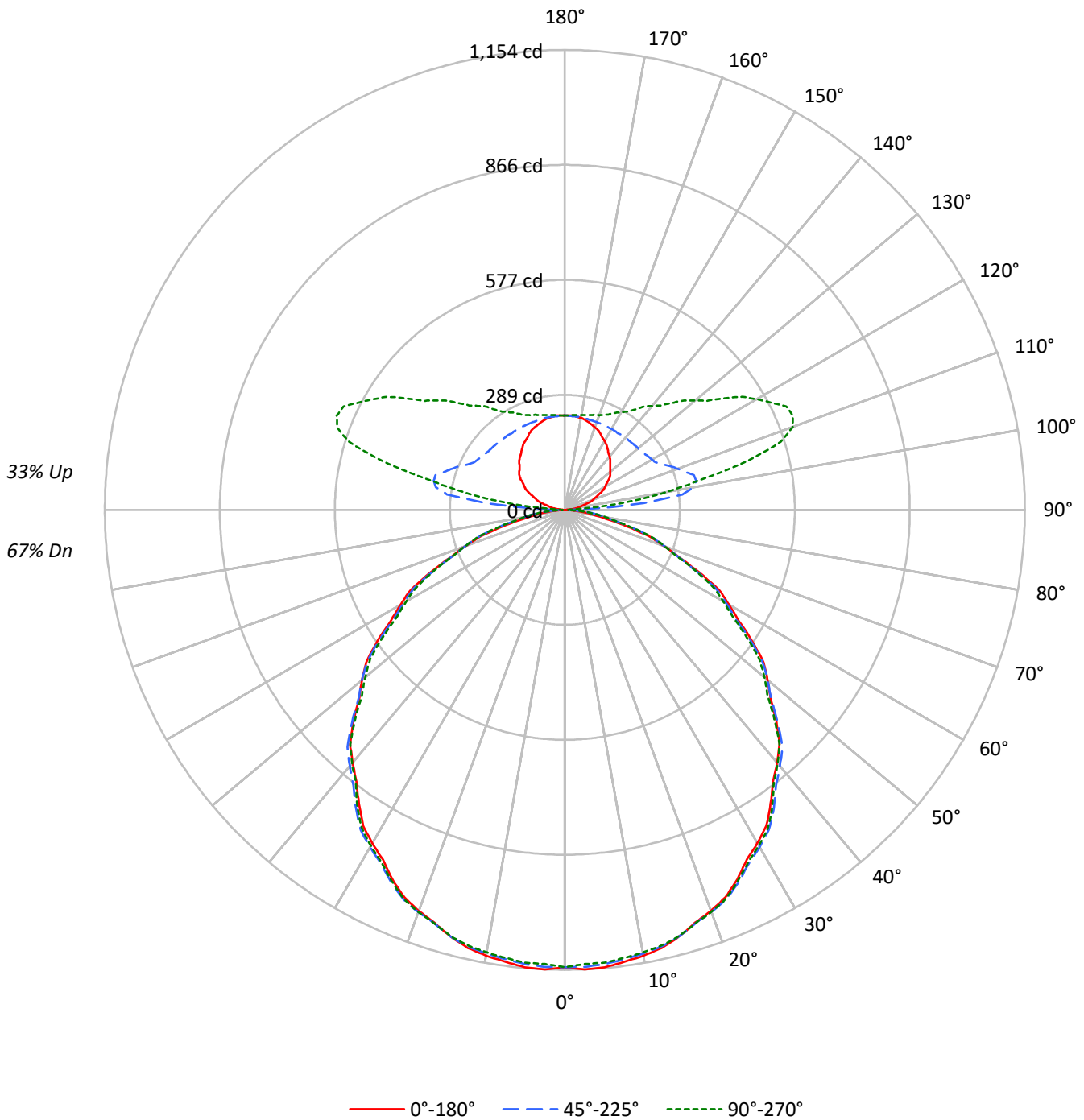
Lumens per Lamp: N/A
Luminaire Lumens: 4670.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1 | 102 | 97 | 93 | 90 | 96 | 92 | 88 | 85 | 82 | 79 | 77 | 72 | 70 | 68 | 64 | 62 | 61 | 57 |
| 2 | 93 | 85 | 79 | 73 | 87 | 80 | 75 | 70 | 72 | 67 | 63 | 63 | 60 | 57 | 56 | 54 | 51 | 47 |
| 3 | 85 | 75 | 67 | 61 | 79 | 71 | 64 | 59 | 63 | 58 | 53 | 56 | 52 | 48 | 50 | 46 | 44 | 40 |
| 4 | 77 | 66 | 58 | 52 | 73 | 63 | 55 | 50 | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 41 | 38 | 34 |
| 5 | 71 | 59 | 51 | 44 | 67 | 56 | 48 | 43 | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 33 | 30 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 45 | 39 | 34 | 41 | 35 | 31 | 36 | 32 | 29 | 26 |
| 7 | 61 | 48 | 40 | 34 | 57 | 46 | 38 | 33 | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 26 | 23 |
| 8 | 56 | 44 | 36 | 30 | 53 | 41 | 34 | 29 | 38 | 31 | 27 | 34 | 29 | 25 | 30 | 26 | 23 | 21 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 | 17 |

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 | 5111 |
| 40° | 4985 | 5055 | 5004 |
| 45° | 4894 | 4929 | 4852 |
| 50° | 4766 | 4766 | 4690 |
| 55° | 4615 | 4555 | 4487 |
| 60° | 4392 | 4304 | 4235 |
| 65° | 4059 | 3979 | 3944 |
| 70° | 3554 | 3582 | 3569 |
| 75° | 2861 | 3164 | 3182 |
| 80° | 2032 | 2680 | 2710 |
| 85° | 1239 | 2249 | 2249 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.6 | 2.3 |
| 10°-20° | 311.7 | 6.7 |
| 20°-30° | 472.0 | 10.1 |
| 30°-40° | 565.9 | 12.1 |
| 40°-50° | 577.0 | 12.4 |
| 50°-60° | 503.7 | 10.8 |
| 60°-70° | 360.6 | 7.7 |
| 70°-80° | 185.7 | 4.0 |
| 80°-90° | 48.2 | 1.0 |
| 90°-100° | 115.6 | 2.5 |
| 100°-110° | 303.9 | 6.5 |
| 110°-120° | 315.1 | 6.7 |
| 120°-130° | 252.8 | 5.4 |
| 130°-140° | 198.3 | 4.2 |
| 140°-150° | 152.2 | 3.3 |
| 150°-160° | 109.6 | 2.3 |
| 160°-170° | 67.1 | 1.4 |
| 170°-180° | 22.7 | 0.5 |
| 0°-30° | 892.3 | 19.1 |
| 0°-40° | 1458.1 | 31.2 |
| 0°-60° | 2538.8 | 54.4 |
| 0°-90° | 3133.3 | 67.1 |
| 90°-120° | 734.6 | 15.7 |
| 90°-150° | 1337.9 | 28.6 |
| 90°-180° | 1537.0 | 32.9 |
| 0°-180° | 4670.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1148 | 1148 | 1148 | 1148 | 1148 | |
| 5° | 1152 | 1140 | 1144 | 1141 | 1140 | 109 |
| 15° | 1108 | 1099 | 1108 | 1108 | 1107 | 312 |
| 25° | 1023 | 1016 | 1031 | 1028 | 1028 | 471 |
| 35° | 900 | 898 | 914 | 908 | 908 | 563 |
| 45° | 750 | 748 | 756 | 746 | 744 | 577 |
| 55° | 574 | 566 | 566 | 558 | 558 | 511 |
| 65° | 372 | 364 | 364 | 361 | 361 | 368 |
| 75° | 160 | 168 | 178 | 178 | 178 | 173 |
| 85° | 23 | 36 | 42 | 44 | 42 | 32 |
| 90° | 2 | 4 | 12 | 6 | 6 | 2 |
| 95° | 15 | 60 | 199 | 103 | 70 | 17 |
| 105° | 55 | 83 | 336 | 510 | 476 | 58 |
| 115° | 97 | 118 | 269 | 537 | 613 | 96 |
| 125° | 135 | 152 | 245 | 414 | 488 | 120 |
| 135° | 161 | 178 | 237 | 334 | 379 | 125 |
| 145° | 187 | 199 | 234 | 285 | 307 | 117 |
| 155° | 211 | 217 | 234 | 257 | 264 | 97 |
| 165° | 228 | 231 | 234 | 243 | 246 | 64 |
| 175° | 237 | 237 | 236 | 239 | 239 | 23 |
| 180° | 237 | 237 | 237 | 237 | 237 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1147.6 | 1147.6 | 1147.6 | 1147.6 | 1147.6 |
| 2.5° | 1154.4 | 1144.4 | 1147.6 | 1145.0 | 1140.8 |
| 5° | 1151.9 | 1140.4 | 1144.4 | 1141.2 | 1140.2 |
| 7.5° | 1143.6 | 1132.1 | 1137.4 | 1135.3 | 1134.2 |
| 10° | 1135.9 | 1124.5 | 1130.6 | 1128.5 | 1127.4 |
| 12.5° | 1125.7 | 1115.1 | 1122.1 | 1120.0 | 1119.8 |
| 15° | 1108.3 | 1098.9 | 1108.3 | 1108.3 | 1107.2 |
| 17.5° | 1086.4 | 1077.9 | 1087.9 | 1088.5 | 1087.9 |
| 20° | 1071.1 | 1061.7 | 1074.3 | 1073.2 | 1074.3 |
| 22.5° | 1052.4 | 1044.7 | 1058.1 | 1055.4 | 1056.4 |
| 25° | 1023.3 | 1016.0 | 1030.7 | 1027.5 | 1027.5 |
| 27.5° | 988.9 | 983.7 | 999.7 | 996.3 | 996.3 |
| 30° | 965.9 | 960.7 | 977.6 | 973.3 | 973.3 |
| 32.5° | 940.4 | 936.9 | 952.9 | 947.8 | 947.8 |
| 35° | 900.0 | 897.9 | 913.8 | 907.5 | 907.5 |
| 37.5° | 858.4 | 856.5 | 870.9 | 863.2 | 860.7 |
| 40° | 827.8 | 826.7 | 839.5 | 831.0 | 831.0 |
| 42.5° | 797.2 | 796.1 | 807.1 | 796.9 | 796.9 |
| 45° | 750.2 | 748.1 | 755.5 | 745.9 | 743.8 |
| 47.5° | 699.0 | 696.9 | 701.5 | 691.1 | 690.1 |
| 50° | 664.1 | 662.0 | 664.1 | 654.5 | 653.5 |
| 52.5° | 628.4 | 624.7 | 625.0 | 615.5 | 615.2 |
| 55° | 573.8 | 566.5 | 566.4 | 557.9 | 557.9 |
| 57.5° | 516.0 | 506.4 | 507.3 | 500.0 | 499.0 |
| 60° | 476.0 | 465.7 | 466.5 | 460.1 | 459.0 |
| 62.5° | 436.9 | 424.9 | 427.4 | 420.1 | 419.9 |
| 65° | 371.9 | 363.6 | 364.5 | 361.3 | 361.3 |
| 67.5° | 309.4 | 301.7 | 307.3 | 304.7 | 304.5 |
| 70° | 263.5 | 258.3 | 265.6 | 265.6 | 264.6 |
| 72.5° | 221.0 | 220.8 | 229.9 | 230.0 | 230.6 |
| 75° | 160.5 | 167.7 | 177.5 | 178.5 | 178.5 |
| 77.5° | 107.1 | 120.0 | 130.7 | 131.1 | 130.9 |
| 80° | 76.5 | 91.1 | 100.9 | 103.0 | 102.0 |
| 82.5° | 51.9 | 67.2 | 75.4 | 77.5 | 76.5 |
| 85° | 23.4 | 35.8 | 42.5 | 43.5 | 42.5 |
| 87.5° | 7.1 | 15.2 | 19.4 | 18.2 | 16.5 |
| 90° | 1.5 | 4.5 | 12.2 | 6.1 | 6.1 |
| 92.5° | 6.4 | 30.8 | 68.1 | 30.2 | 19.5 |
| 95° | 15.2 | 59.8 | 199.2 | 102.6 | 69.9 |
| 97.5° | 26.5 | 65.7 | 298.0 | 237.0 | 174.5 |
| 100° | 35.0 | 70.6 | 328.4 | 332.8 | 258.5 |
| 102.5° | 42.3 | 75.6 | 336.9 | 414.5 | 350.9 |
| 105° | 54.7 | 83.0 | 336.0 | 510.1 | 475.9 |
| 107.5° | 67.5 | 93.7 | 316.8 | 559.7 | 568.0 |
| 110° | 76.0 | 99.8 | 301.0 | 572.5 | 608.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 84.5 | 107.1 | 286.4 | 564.4 | 619.1 |
| 115° | 97.3 | 118.1 | 269.1 | 536.9 | 612.7 |
| 117.5° | 109.8 | 128.8 | 257.2 | 498.8 | 582.9 |
| 120° | 117.1 | 134.9 | 252.4 | 473.2 | 554.9 |
| 122.5° | 124.4 | 142.2 | 248.7 | 447.6 | 528.2 |
| 125° | 135.3 | 151.7 | 244.8 | 413.7 | 488.0 |
| 127.5° | 144.1 | 160.8 | 241.4 | 386.4 | 449.1 |
| 130° | 149.0 | 166.8 | 240.2 | 369.2 | 427.2 |
| 132.5° | 153.9 | 171.7 | 239.0 | 354.5 | 406.5 |
| 135° | 161.2 | 177.5 | 237.2 | 334.0 | 378.6 |
| 137.5° | 168.8 | 184.8 | 236.9 | 318.6 | 355.2 |
| 140° | 174.8 | 189.7 | 235.7 | 306.4 | 340.6 |
| 142.5° | 179.7 | 193.4 | 235.7 | 297.7 | 327.2 |
| 145° | 187.0 | 198.9 | 234.1 | 284.8 | 307.1 |
| 147.5° | 194.3 | 205.9 | 234.1 | 274.1 | 292.5 |
| 150° | 199.2 | 209.6 | 234.1 | 267.9 | 282.8 |
| 152.5° | 204.0 | 212.1 | 234.1 | 263.0 | 274.3 |
| 155° | 211.3 | 217.3 | 234.1 | 257.1 | 264.5 |
| 157.5° | 216.8 | 222.5 | 234.1 | 251.9 | 257.2 |
| 160° | 220.5 | 224.9 | 234.1 | 249.4 | 252.4 |
| 162.5° | 224.1 | 227.4 | 234.1 | 247.0 | 249.9 |
| 165° | 228.1 | 231.0 | 234.1 | 243.3 | 246.3 |
| 167.5° | 231.7 | 233.2 | 235.7 | 241.8 | 243.0 |
| 170° | 234.1 | 235.6 | 235.7 | 241.7 | 241.7 |
| 172.5° | 235.3 | 235.6 | 235.7 | 240.5 | 239.3 |
| 175° | 237.2 | 237.2 | 235.7 | 238.7 | 238.7 |
| 177.5° | 237.2 | 237.2 | 236.0 | 238.4 | 237.2 |
| 180° | 237.2 | 237.2 | 237.2 | 237.2 | 237.2 |

(END OF REPORT)