

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521750

Luminaire Tested: **SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521750
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

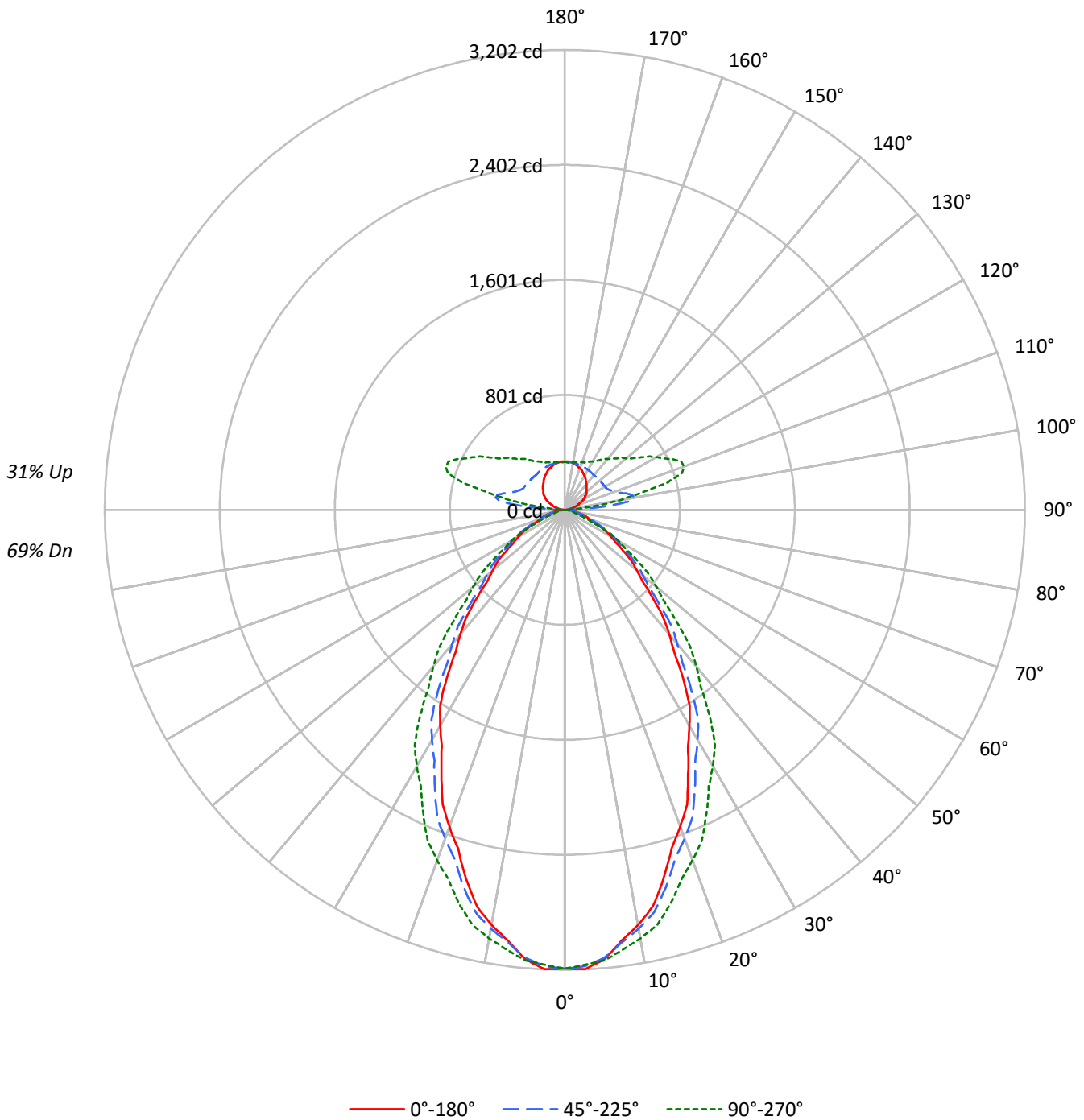
Lumens per Lamp: N/A
Luminaire Lumens: 6728.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.3
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: P521750

CATALOG NUMBER: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521750

CATALOG NUMBER: SQ4-WB-025U-125D-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 | | | | |
| 1 | 104 | 100 | 96 | 93 | 98 | 95 | 92 | 89 | 85 | 83 | 81 | 76 | 74 | 73 | 68 | 66 | 65 | 61 | | | | |
| 2 | 96 | 89 | 84 | 79 | 90 | 85 | 80 | 76 | 76 | 73 | 69 | 69 | 66 | 63 | 62 | 59 | 58 | 54 | | | | |
| 3 | 88 | 80 | 73 | 68 | 84 | 76 | 70 | 65 | 69 | 64 | 60 | 62 | 59 | 56 | 56 | 53 | 51 | 48 | | | | |
| 4 | 82 | 72 | 65 | 59 | 77 | 69 | 62 | 57 | 62 | 57 | 53 | 57 | 53 | 49 | 51 | 48 | 45 | 43 | | | | |
| 5 | 76 | 65 | 58 | 52 | 72 | 62 | 56 | 50 | 57 | 51 | 47 | 52 | 47 | 44 | 47 | 44 | 41 | 38 | | | | |
| 6 | 71 | 59 | 52 | 46 | 67 | 57 | 50 | 45 | 52 | 46 | 42 | 48 | 43 | 40 | 44 | 40 | 37 | 35 | | | | |
| 7 | 66 | 54 | 47 | 42 | 63 | 52 | 45 | 40 | 48 | 42 | 38 | 44 | 39 | 36 | 40 | 36 | 34 | 31 | | | | |
| 8 | 62 | 50 | 43 | 38 | 59 | 48 | 41 | 37 | 44 | 39 | 35 | 41 | 36 | 33 | 37 | 34 | 31 | 29 | | | | |
| 9 | 58 | 46 | 39 | 34 | 55 | 44 | 38 | 33 | 41 | 36 | 32 | 38 | 33 | 30 | 35 | 31 | 28 | 26 | | | | |
| 10 | 54 | 43 | 36 | 31 | 52 | 41 | 35 | 31 | 38 | 33 | 29 | 35 | 31 | 28 | 33 | 29 | 26 | 24 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 29466 | 29466 | 29466 |
| 5° | 29098 | 28994 | 29162 |
| 10° | 27491 | 27740 | 28384 |
| 15° | 25379 | 25967 | 27132 |
| 20° | 23047 | 23913 | 25495 |
| 25° | 20671 | 21798 | 23752 |
| 30° | 18483 | 19692 | 21946 |
| 35° | 16163 | 17331 | 19808 |
| 40° | 13604 | 14684 | 17148 |
| 45° | 11226 | 12196 | 14317 |
| 50° | 9373 | 10218 | 11928 |
| 55° | 7957 | 8768 | 9851 |
| 60° | 6802 | 7602 | 7861 |
| 65° | 5414 | 6394 | 5078 |
| 70° | 4802 | 4990 | 3099 |
| 75° | 4445 | 4046 | 1900 |
| 80° | 4096 | 3725 | 1636 |
| 85° | 3705 | 3409 | 1334 |



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CATALOG NUMBER: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 292.9 | 4.4 |
| 10°-20° | 761.9 | 11.3 |
| 20°-30° | 986.9 | 14.7 |
| 30°-40° | 966.4 | 14.4 |
| 40°-50° | 739.8 | 11.0 |
| 50°-60° | 492.9 | 7.3 |
| 60°-70° | 269.0 | 4.0 |
| 70°-80° | 112.1 | 1.7 |
| 80°-90° | 31.7 | 0.5 |
| 90°-100° | 152.2 | 2.3 |
| 100°-110° | 433.0 | 6.4 |
| 110°-120° | 414.9 | 6.2 |
| 120°-130° | 328.4 | 4.9 |
| 130°-140° | 263.6 | 3.9 |
| 140°-150° | 206.3 | 3.1 |
| 150°-160° | 151.0 | 2.2 |
| 160°-170° | 93.5 | 1.4 |
| 170°-180° | 31.7 | 0.5 |
| 0°-30° | 2041.8 | 30.3 |
| 0°-40° | 3008.2 | 44.7 |
| 0°-60° | 4240.9 | 63.0 |
| 0°-90° | 4653.8 | 69.2 |
| 90°-120° | 1000.1 | 14.9 |
| 90°-150° | 1798.3 | 26.7 |
| 90°-180° | 2075.0 | 30.8 |
| 0°-180° | 6728.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3194 | 3194 | 3194 | 3194 | 3194 | |
| 5° | 3142 | 3110 | 3131 | 3138 | 3149 | 292 |
| 15° | 2657 | 2647 | 2719 | 2793 | 2840 | 742 |
| 25° | 2031 | 2036 | 2141 | 2235 | 2333 | 934 |
| 35° | 1435 | 1442 | 1539 | 1642 | 1759 | 892 |
| 45° | 860 | 877 | 935 | 1006 | 1097 | 671 |
| 55° | 495 | 515 | 545 | 566 | 612 | 449 |
| 65° | 248 | 269 | 293 | 256 | 233 | 258 |
| 75° | 125 | 125 | 114 | 78 | 53 | 133 |
| 85° | 35 | 35 | 32 | 21 | 13 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 16 | 66 | 295 | 102 | 63 | 19 |
| 105° | 67 | 102 | 441 | 779 | 741 | 71 |
| 115° | 125 | 151 | 335 | 709 | 832 | 123 |
| 125° | 176 | 196 | 319 | 530 | 634 | 158 |
| 135° | 216 | 234 | 316 | 448 | 506 | 167 |
| 145° | 255 | 268 | 318 | 388 | 422 | 159 |
| 155° | 291 | 298 | 326 | 350 | 364 | 134 |
| 165° | 321 | 322 | 330 | 337 | 342 | 90 |
| 175° | 336 | 335 | 333 | 331 | 329 | 32 |
| 180° | 334 | 334 | 334 | 334 | 334 | |



TEST NUMBER: P521750

CATALOG NUMBER: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3193.7 | 3193.7 | 3193.7 | 3193.7 | 3193.7 |
| 2.5° | 3201.5 | 3173.0 | 3180.2 | 3180.0 | 3171.2 |
| 5° | 3141.8 | 3110.3 | 3130.6 | 3137.9 | 3148.8 |
| 7.5° | 3025.2 | 3001.4 | 3038.4 | 3065.8 | 3088.0 |
| 10° | 2934.4 | 2913.9 | 2961.0 | 3000.9 | 3029.7 |
| 12.5° | 2829.0 | 2811.8 | 2870.2 | 2923.8 | 2961.3 |
| 15° | 2657.0 | 2647.4 | 2718.6 | 2792.6 | 2840.5 |
| 17.5° | 2472.8 | 2468.2 | 2549.9 | 2636.2 | 2697.6 |
| 20° | 2347.3 | 2345.9 | 2435.5 | 2525.4 | 2596.7 |
| 22.5° | 2220.6 | 2223.6 | 2317.8 | 2411.3 | 2492.4 |
| 25° | 2030.6 | 2036.0 | 2141.3 | 2234.6 | 2333.2 |
| 27.5° | 1854.8 | 1857.3 | 1966.1 | 2064.6 | 2169.8 |
| 30° | 1734.9 | 1741.7 | 1848.4 | 1950.4 | 2060.0 |
| 32.5° | 1614.9 | 1622.9 | 1727.3 | 1832.7 | 1944.5 |
| 35° | 1435.0 | 1441.8 | 1538.7 | 1642.2 | 1758.7 |
| 37.5° | 1249.4 | 1258.8 | 1344.7 | 1442.6 | 1557.2 |
| 40° | 1129.5 | 1143.2 | 1219.2 | 1311.4 | 1423.8 |
| 42.5° | 1014.0 | 1031.0 | 1101.5 | 1189.0 | 1290.4 |
| 45° | 860.4 | 876.9 | 934.7 | 1005.5 | 1097.3 |
| 47.5° | 728.1 | 747.0 | 791.5 | 852.4 | 930.8 |
| 50° | 653.0 | 670.8 | 711.9 | 757.0 | 831.0 |
| 52.5° | 586.9 | 604.7 | 641.3 | 676.0 | 739.1 |
| 55° | 494.7 | 515.2 | 545.1 | 565.8 | 612.4 |
| 57.5° | 419.0 | 438.7 | 462.4 | 471.8 | 500.0 |
| 60° | 368.6 | 390.5 | 412.0 | 410.9 | 426.0 |
| 62.5° | 322.6 | 341.2 | 362.7 | 347.8 | 348.7 |
| 65° | 248.0 | 268.6 | 292.9 | 255.9 | 232.6 |
| 67.5° | 200.4 | 204.8 | 229.8 | 178.5 | 150.8 |
| 70° | 178.0 | 178.0 | 185.0 | 138.2 | 114.9 |
| 72.5° | 156.7 | 156.7 | 150.2 | 112.4 | 88.0 |
| 75° | 124.7 | 124.7 | 113.5 | 77.9 | 53.3 |
| 77.5° | 96.1 | 95.0 | 86.9 | 58.1 | 38.7 |
| 80° | 77.1 | 77.1 | 70.1 | 45.9 | 30.8 |
| 82.5° | 60.3 | 60.3 | 54.4 | 35.9 | 23.0 |
| 85° | 35.0 | 35.0 | 32.2 | 20.8 | 12.6 |
| 87.5° | 12.3 | 12.3 | 11.2 | 6.7 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 5.1 | 26.9 | 62.5 | 18.2 | 13.7 |
| 95° | 16.5 | 65.6 | 294.6 | 102.0 | 62.9 |
| 97.5° | 30.3 | 76.8 | 453.7 | 324.7 | 222.5 |
| 100° | 40.0 | 83.5 | 488.3 | 494.6 | 381.0 |
| 102.5° | 50.7 | 90.6 | 480.6 | 633.0 | 533.8 |
| 105° | 67.3 | 102.1 | 441.3 | 779.4 | 740.9 |
| 107.5° | 84.2 | 115.4 | 395.3 | 820.7 | 855.0 |
| 110° | 95.9 | 125.1 | 368.9 | 804.9 | 881.9 |

TEST NUMBER: P521750

CATALOG NUMBER: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 107.0 | 134.7 | 351.1 | 767.6 | 877.3 |
| 115° | 125.1 | 151.2 | 334.6 | 708.8 | 832.4 |
| 117.5° | 141.0 | 165.4 | 324.8 | 644.6 | 775.5 |
| 120° | 153.7 | 174.1 | 323.8 | 607.9 | 733.3 |
| 122.5° | 163.8 | 184.3 | 321.3 | 575.7 | 692.2 |
| 125° | 176.5 | 195.8 | 319.4 | 530.0 | 633.6 |
| 127.5° | 190.3 | 208.4 | 318.3 | 502.6 | 588.1 |
| 130° | 197.5 | 215.5 | 316.8 | 483.6 | 558.1 |
| 132.5° | 205.1 | 222.6 | 316.8 | 468.7 | 537.3 |
| 135° | 215.9 | 233.9 | 315.6 | 447.7 | 506.0 |
| 137.5° | 226.0 | 243.5 | 315.4 | 429.8 | 480.3 |
| 140° | 233.7 | 251.7 | 314.9 | 415.1 | 463.5 |
| 142.5° | 242.3 | 257.3 | 316.4 | 403.3 | 446.7 |
| 145° | 254.6 | 267.6 | 318.1 | 387.5 | 422.2 |
| 147.5° | 265.1 | 277.8 | 320.9 | 371.5 | 401.5 |
| 150° | 274.3 | 283.0 | 321.9 | 366.2 | 387.3 |
| 152.5° | 281.4 | 290.6 | 322.9 | 359.0 | 378.7 |
| 155° | 290.8 | 297.6 | 325.7 | 350.2 | 364.4 |
| 157.5° | 302.5 | 306.6 | 326.3 | 346.1 | 356.3 |
| 160° | 308.6 | 311.7 | 328.9 | 343.1 | 351.7 |
| 162.5° | 312.1 | 315.7 | 329.4 | 340.5 | 347.2 |
| 165° | 321.3 | 322.5 | 329.5 | 336.6 | 341.6 |
| 167.5° | 327.5 | 326.4 | 332.4 | 335.7 | 337.6 |
| 170° | 329.5 | 328.9 | 331.4 | 332.1 | 334.6 |
| 172.5° | 334.1 | 332.0 | 333.0 | 331.1 | 333.1 |
| 175° | 336.5 | 334.6 | 333.3 | 331.4 | 328.9 |
| 177.5° | 337.5 | 334.5 | 333.0 | 330.9 | 331.4 |
| 180° | 334.0 | 334.0 | 334.0 | 334.0 | 334.0 |

(END OF REPORT)