

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: P523665

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523665  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
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**

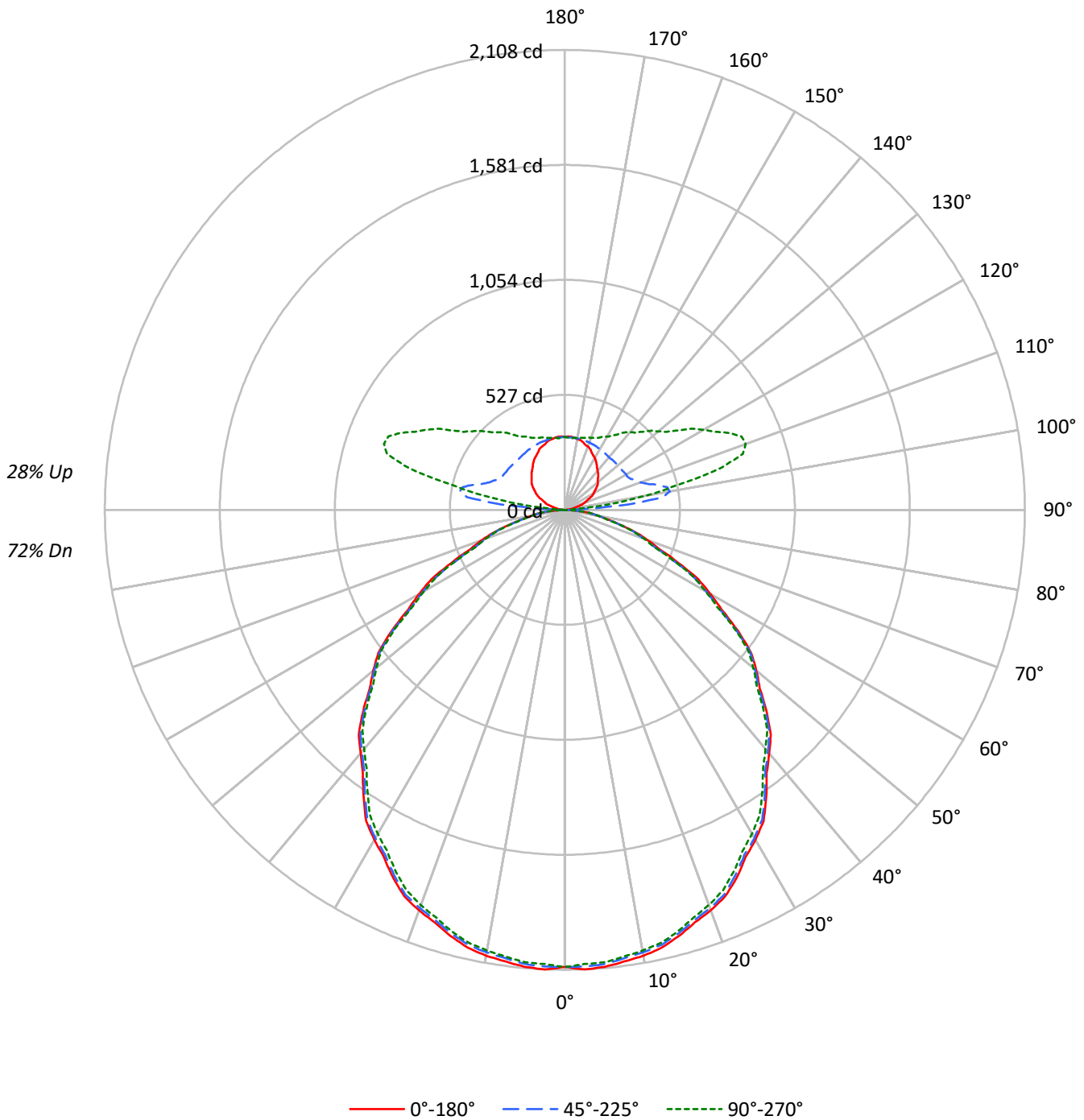
Lumens per Lamp: N/A  
Luminaire Lumens: 7437.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



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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   | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 | 72 |
| 1   | 103 | 99  | 95  | 91  | 98  | 94  | 90  | 87  | 84 | 82 | 79 | 76 | 74 | 72 | 68 | 67 | 65 | 61 |
| 2   | 94  | 87  | 80  | 75  | 89  | 82  | 77  | 72  | 74 | 70 | 66 | 67 | 64 | 61 | 60 | 58 | 55 | 52 |
| 3   | 86  | 76  | 69  | 63  | 81  | 73  | 66  | 60  | 66 | 60 | 56 | 59 | 55 | 52 | 54 | 50 | 47 | 44 |
| 4   | 79  | 68  | 60  | 53  | 74  | 65  | 57  | 52  | 59 | 53 | 48 | 53 | 48 | 44 | 48 | 44 | 41 | 38 |
| 5   | 72  | 61  | 52  | 46  | 68  | 58  | 50  | 45  | 53 | 46 | 42 | 48 | 43 | 39 | 43 | 39 | 36 | 33 |
| 6   | 67  | 54  | 46  | 40  | 63  | 52  | 44  | 39  | 48 | 41 | 36 | 43 | 38 | 34 | 39 | 35 | 32 | 29 |
| 7   | 62  | 49  | 41  | 35  | 59  | 47  | 40  | 34  | 43 | 37 | 32 | 39 | 34 | 30 | 36 | 31 | 28 | 26 |
| 8   | 58  | 45  | 37  | 31  | 55  | 43  | 36  | 31  | 39 | 33 | 29 | 36 | 31 | 27 | 33 | 29 | 25 | 23 |
| 9   | 54  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |
| 10  | 50  | 38  | 30  | 25  | 48  | 36  | 29  | 25  | 34 | 28 | 23 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 19331 | 19331 | 19331 |
| 5°  | 19472 | 19353 | 19285 |
| 10° | 19440 | 19302 | 19216 |
| 15° | 19311 | 19206 | 19100 |
| 20° | 19183 | 19074 | 18931 |
| 25° | 18955 | 18824 | 18637 |
| 30° | 18604 | 18506 | 18272 |
| 35° | 18117 | 17993 | 17765 |
| 40° | 17537 | 17428 | 17228 |
| 45° | 17059 | 16939 | 16772 |
| 50° | 16446 | 16341 | 16183 |
| 55° | 15595 | 15389 | 15270 |
| 60° | 14197 | 13791 | 13723 |
| 65° | 12507 | 11985 | 11946 |
| 70° | 10798 | 10353 | 10353 |
| 75° | 9293  | 9165  | 9033  |
| 80° | 8193  | 8294  | 8097  |
| 85° | 6415  | 6997  | 6997  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 198.1  | 2.7       |
| 10°-20°   | 565.7  | 7.6       |
| 20°-30°   | 847.3  | 11.4      |
| 30°-40°   | 993.9  | 13.4      |
| 40°-50°   | 997.0  | 13.4      |
| 50°-60°   | 850.5  | 11.4      |
| 60°-70°   | 554.7  | 7.5       |
| 70°-80°   | 278.3  | 3.7       |
| 80°-90°   | 77.0   | 1.0       |
| 90°-100°  | 152.2  | 2.0       |
| 100°-110° | 433.0  | 5.8       |
| 110°-120° | 414.9  | 5.6       |
| 120°-130° | 328.4  | 4.4       |
| 130°-140° | 263.6  | 3.5       |
| 140°-150° | 206.3  | 2.8       |
| 150°-160° | 151.0  | 2.0       |
| 160°-170° | 93.5   | 1.3       |
| 170°-180° | 31.7   | 0.4       |
| 0°-30°    | 1611.1 | 21.7      |
| 0°-40°    | 2605.0 | 35.0      |
| 0°-60°    | 4452.5 | 59.9      |
| 0°-90°    | 5362.4 | 72.1      |
| 90°-120°  | 1000.1 | 13.4      |
| 90°-150°  | 1798.3 | 24.2      |
| 90°-180°  | 2075.0 | 27.9      |
| 0°-180°   | 7437.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2095 | 2095  | 2095 | 2095  | 2095 |      |
| 5°   | 2102 | 2083  | 2090 | 2082  | 2082 | 200  |
| 15°  | 2022 | 2002  | 2011 | 2003  | 2000 | 570  |
| 25°  | 1862 | 1840  | 1849 | 1832  | 1831 | 856  |
| 35°  | 1608 | 1592  | 1598 | 1579  | 1577 | 1005 |
| 45°  | 1307 | 1298  | 1298 | 1285  | 1285 | 1007 |
| 55°  | 970  | 966   | 957  | 951   | 949  | 862  |
| 65°  | 573  | 562   | 549  | 545   | 547  | 572  |
| 75°  | 261  | 261   | 257  | 255   | 253  | 283  |
| 85°  | 61   | 66    | 66   | 66    | 66   | 71   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 3    |
| 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  |      |

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CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2095.2 | 2095.2 | 2095.2 | 2095.2 | 2095.2 |
| 2.5°   | 2108.4 | 2091.1 | 2095.2 | 2092.0 | 2083.4 |
| 5°     | 2102.5 | 2082.7 | 2089.6 | 2082.3 | 2082.3 |
| 7.5°   | 2088.2 | 2066.6 | 2073.5 | 2066.1 | 2065.8 |
| 10°    | 2075.0 | 2053.4 | 2060.3 | 2052.9 | 2051.1 |
| 12.5°  | 2055.9 | 2034.3 | 2042.6 | 2033.8 | 2033.5 |
| 15°    | 2021.7 | 2002.0 | 2010.7 | 2003.3 | 1999.7 |
| 17.5°  | 1983.1 | 1961.6 | 1972.1 | 1961.8 | 1960.4 |
| 20°    | 1953.8 | 1932.2 | 1942.7 | 1928.1 | 1928.1 |
| 22.5°  | 1918.5 | 1897.0 | 1909.0 | 1889.9 | 1889.9 |
| 25°    | 1862.0 | 1840.4 | 1849.1 | 1832.5 | 1830.7 |
| 27.5°  | 1794.7 | 1773.6 | 1782.6 | 1763.9 | 1763.5 |
| 30°    | 1746.3 | 1726.5 | 1737.1 | 1716.8 | 1715.1 |
| 32.5°  | 1693.4 | 1675.1 | 1682.7 | 1662.5 | 1660.7 |
| 35°    | 1608.5 | 1592.4 | 1597.5 | 1579.1 | 1577.3 |
| 37.5°  | 1519.3 | 1502.8 | 1508.7 | 1492.9 | 1492.1 |
| 40°    | 1456.1 | 1445.4 | 1447.0 | 1434.0 | 1430.4 |
| 42.5°  | 1397.4 | 1385.2 | 1386.7 | 1373.9 | 1373.1 |
| 45°    | 1307.4 | 1298.4 | 1298.2 | 1285.4 | 1285.4 |
| 47.5°  | 1211.9 | 1205.1 | 1203.1 | 1192.4 | 1192.1 |
| 50°    | 1145.8 | 1140.4 | 1138.5 | 1129.2 | 1127.5 |
| 52.5°  | 1076.8 | 1074.3 | 1068.0 | 1060.2 | 1059.9 |
| 55°    | 969.5  | 965.9  | 956.7  | 951.1  | 949.3  |
| 57.5°  | 853.1  | 845.9  | 835.5  | 827.4  | 828.9  |
| 60°    | 769.4  | 762.2  | 747.4  | 743.7  | 743.7  |
| 62.5°  | 688.6  | 680.0  | 665.1  | 660.0  | 662.9  |
| 65°    | 572.9  | 562.1  | 549.0  | 545.4  | 547.2  |
| 67.5°  | 467.9  | 458.2  | 444.0  | 444.0  | 442.5  |
| 70°    | 400.3  | 394.9  | 383.8  | 383.8  | 383.8  |
| 72.5°  | 340.1  | 337.6  | 329.4  | 329.4  | 328.0  |
| 75°    | 260.7  | 260.7  | 257.1  | 255.2  | 253.4  |
| 77.5°  | 195.4  | 196.1  | 194.3  | 192.4  | 189.1  |
| 80°    | 154.2  | 157.8  | 156.1  | 154.2  | 152.4  |
| 82.5°  | 116.1  | 119.6  | 119.4  | 116.0  | 115.7  |
| 85°    | 60.6   | 66.0   | 66.1   | 66.1   | 66.1   |
| 87.5°  | 16.2   | 21.9   | 23.5   | 23.5   | 25.0   |
| 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  |

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**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)