

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: P561611

Luminaire Tested: **SQ4-PC3-0U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561611
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

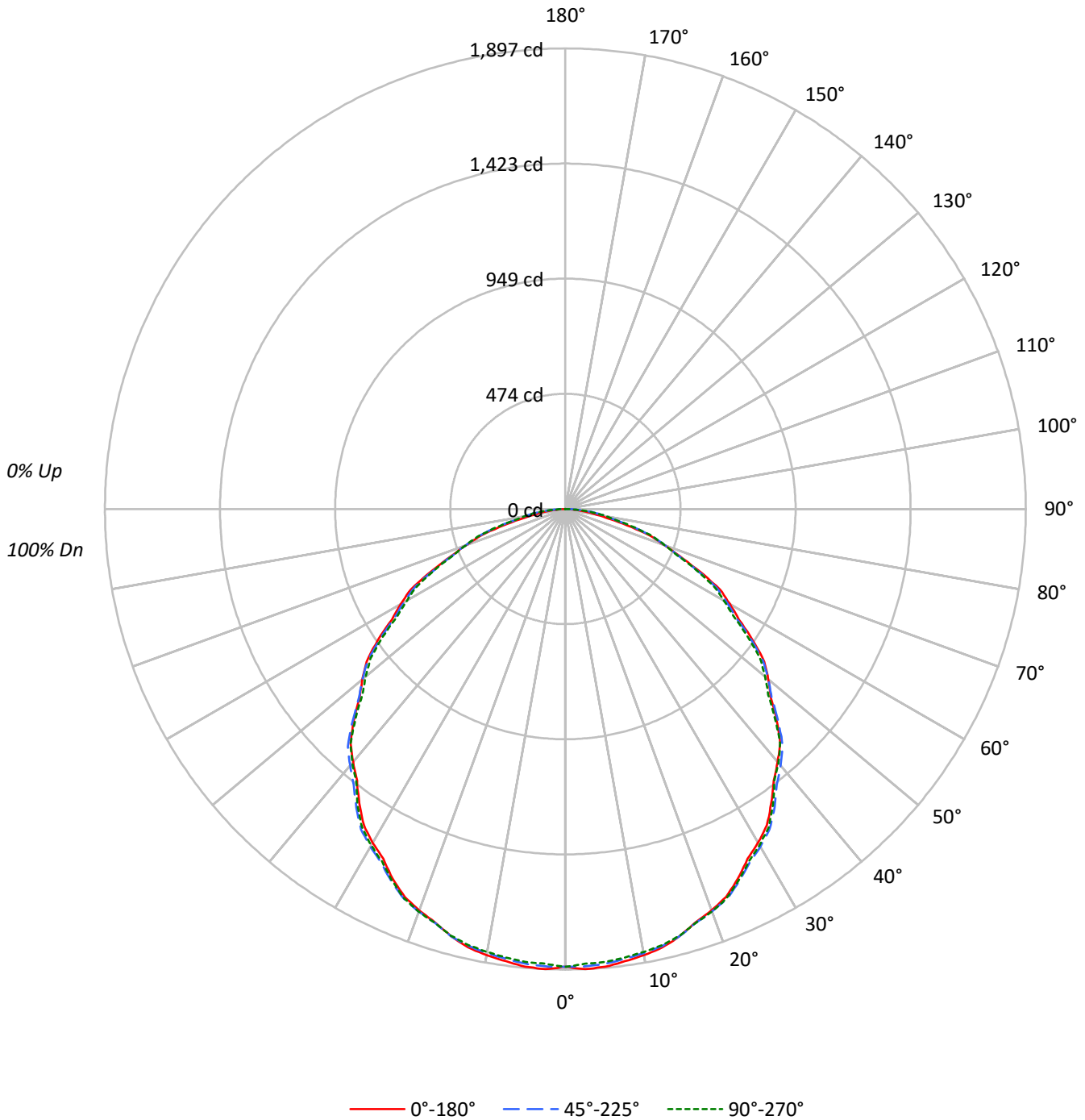
Lumens per Lamp: N/A
Luminaire Lumens: 5146.6 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.8
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



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 44 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 54 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17399 | 17399 | 17399 |
| 5° | 17529 | 17416 | 17351 |
| 10° | 17487 | 17405 | 17356 |
| 15° | 17395 | 17395 | 17378 |
| 20° | 17280 | 17332 | 17332 |
| 25° | 17118 | 17242 | 17189 |
| 30° | 16909 | 17114 | 17039 |
| 35° | 16657 | 16913 | 16796 |
| 40° | 16382 | 16613 | 16445 |
| 45° | 16084 | 16199 | 15948 |
| 50° | 15664 | 15664 | 15413 |
| 55° | 15167 | 14971 | 14745 |
| 60° | 14433 | 14144 | 13919 |
| 65° | 13341 | 13075 | 12961 |
| 70° | 11680 | 11775 | 11729 |
| 75° | 9400 | 10395 | 10455 |
| 80° | 6679 | 8815 | 8905 |
| 85° | 4065 | 7389 | 7389 |



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CATALOG NUMBER: SQ4-PC3-OU-125D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.5 | 3.5 |
| 10°-20° | 512.2 | 10.0 |
| 20°-30° | 775.6 | 15.1 |
| 30°-40° | 929.8 | 18.1 |
| 40°-50° | 948.1 | 18.4 |
| 50°-60° | 827.6 | 16.1 |
| 60°-70° | 592.5 | 11.5 |
| 70°-80° | 305.2 | 5.9 |
| 80°-90° | 77.2 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1466.2 | 28.5 |
| 0°-40° | 2396.0 | 46.6 |
| 0°-60° | 4171.8 | 81.1 |
| 0°-90° | 5146.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5146.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1886 | 1886 | 1886 | 1886 | 1886 | |
| 5° | 1893 | 1874 | 1880 | 1875 | 1874 | 180 |
| 15° | 1821 | 1806 | 1821 | 1821 | 1819 | 513 |
| 25° | 1682 | 1670 | 1694 | 1688 | 1688 | 774 |
| 35° | 1479 | 1476 | 1502 | 1491 | 1491 | 925 |
| 45° | 1233 | 1229 | 1242 | 1226 | 1222 | 949 |
| 55° | 943 | 931 | 931 | 917 | 917 | 841 |
| 65° | 611 | 598 | 599 | 594 | 594 | 604 |
| 75° | 264 | 276 | 292 | 293 | 293 | 285 |
| 85° | 38 | 59 | 70 | 72 | 70 | 54 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P561611

CATALOG NUMBER: SQ4-PC3-0U-125D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1885.8 | 1885.8 | 1885.8 | 1885.8 | 1885.8 |
| 2.5° | 1896.9 | 1880.5 | 1885.8 | 1881.4 | 1874.6 |
| 5° | 1892.7 | 1874.0 | 1880.5 | 1875.2 | 1873.5 |
| 7.5° | 1879.1 | 1860.3 | 1869.0 | 1865.5 | 1863.8 |
| 10° | 1866.6 | 1847.8 | 1857.8 | 1854.3 | 1852.6 |
| 12.5° | 1849.8 | 1832.4 | 1843.9 | 1840.4 | 1840.0 |
| 15° | 1821.2 | 1805.8 | 1821.2 | 1821.1 | 1819.4 |
| 17.5° | 1785.2 | 1771.2 | 1787.6 | 1788.7 | 1787.6 |
| 20° | 1760.0 | 1744.7 | 1765.3 | 1763.6 | 1765.3 |
| 22.5° | 1729.3 | 1716.7 | 1738.7 | 1734.2 | 1736.0 |
| 25° | 1681.5 | 1669.5 | 1693.7 | 1688.5 | 1688.5 |
| 27.5° | 1624.9 | 1616.4 | 1642.7 | 1637.1 | 1637.1 |
| 30° | 1587.2 | 1578.6 | 1606.4 | 1599.4 | 1599.4 |
| 32.5° | 1545.3 | 1539.5 | 1565.9 | 1557.5 | 1557.5 |
| 35° | 1478.9 | 1475.5 | 1501.6 | 1491.2 | 1491.2 |
| 37.5° | 1410.5 | 1407.4 | 1431.1 | 1418.4 | 1414.3 |
| 40° | 1360.2 | 1358.5 | 1379.4 | 1365.4 | 1365.4 |
| 42.5° | 1309.9 | 1308.2 | 1326.3 | 1309.6 | 1309.6 |
| 45° | 1232.7 | 1229.3 | 1241.5 | 1225.7 | 1222.3 |
| 47.5° | 1148.6 | 1145.2 | 1152.8 | 1135.6 | 1133.9 |
| 50° | 1091.3 | 1087.9 | 1091.3 | 1075.5 | 1073.8 |
| 52.5° | 1032.6 | 1026.5 | 1027.0 | 1011.3 | 1011.0 |
| 55° | 942.9 | 930.9 | 930.7 | 916.7 | 916.7 |
| 57.5° | 847.9 | 832.2 | 833.6 | 821.7 | 820.0 |
| 60° | 782.2 | 765.2 | 766.5 | 756.0 | 754.3 |
| 62.5° | 718.0 | 698.2 | 702.3 | 690.4 | 690.0 |
| 65° | 611.1 | 597.5 | 598.9 | 593.7 | 593.7 |
| 67.5° | 508.5 | 495.8 | 505.0 | 500.8 | 500.4 |
| 70° | 433.0 | 424.5 | 436.5 | 436.5 | 434.8 |
| 72.5° | 363.2 | 362.8 | 377.9 | 377.9 | 378.9 |
| 75° | 263.7 | 275.6 | 291.6 | 293.3 | 293.3 |
| 77.5° | 176.0 | 197.2 | 214.8 | 215.5 | 215.1 |
| 80° | 125.7 | 149.6 | 165.9 | 169.3 | 167.6 |
| 82.5° | 85.2 | 110.5 | 124.0 | 127.4 | 125.7 |
| 85° | 38.4 | 58.9 | 69.8 | 71.6 | 69.8 |
| 87.5° | 11.2 | 23.5 | 27.9 | 27.9 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)