

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: P561976

Luminaire Tested: **SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5149.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

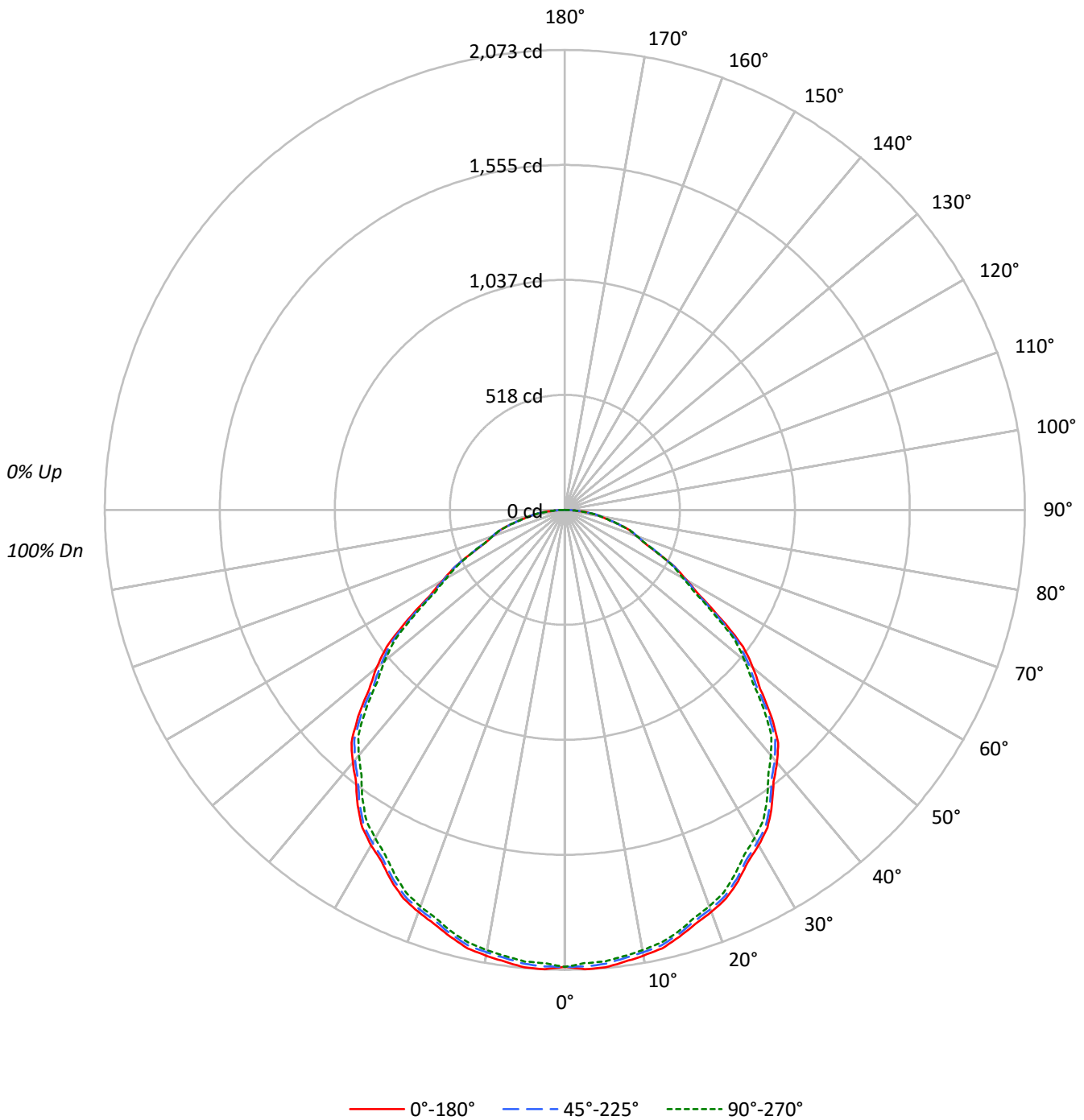
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 72 | | | | |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 68 | 78 | 71 | 66 | 75 | 70 | 65 | 72 | 68 | 64 | 62 | | | | |
| 4 | 85 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 54 | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 50 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 | | | | |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | |
| 8 | 63 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19005 | 19005 | 19005 |
| 5° | 19176 | 19029 | 18929 |
| 10° | 19116 | 18983 | 18882 |
| 15° | 19032 | 18913 | 18811 |
| 20° | 18936 | 18814 | 18674 |
| 25° | 18802 | 18676 | 18459 |
| 30° | 18600 | 18467 | 18203 |
| 35° | 18325 | 18165 | 17905 |
| 40° | 17907 | 17714 | 17394 |
| 45° | 17177 | 16876 | 16529 |
| 50° | 15891 | 15509 | 15203 |
| 55° | 13870 | 13557 | 13270 |
| 60° | 11688 | 11590 | 11361 |
| 65° | 10110 | 10149 | 10071 |
| 70° | 9285 | 9334 | 9334 |
| 75° | 8919 | 8919 | 8980 |
| 80° | 8389 | 8485 | 8389 |
| 85° | 6764 | 7516 | 7516 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 194.8 | 3.8 |
| 10°-20° | 557.3 | 10.8 |
| 20°-30° | 840.6 | 16.3 |
| 30°-40° | 1001.6 | 19.5 |
| 40°-50° | 987.5 | 19.2 |
| 50°-60° | 754.7 | 14.7 |
| 60°-70° | 467.0 | 9.1 |
| 70°-80° | 265.3 | 5.2 |
| 80°-90° | 80.7 | 1.6 |
| 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° | 1592.8 | 30.9 |
| 0°-40° | 2594.4 | 50.4 |
| 0°-60° | 4336.5 | 84.2 |
| 0°-90° | 5149.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5149.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2060 | 2060 | 2060 | 2060 | 2060 | |
| 5° | 2070 | 2048 | 2055 | 2047 | 2044 | 196 |
| 15° | 1992 | 1972 | 1980 | 1973 | 1969 | 562 |
| 25° | 1847 | 1824 | 1835 | 1815 | 1813 | 850 |
| 35° | 1627 | 1608 | 1613 | 1592 | 1590 | 1015 |
| 45° | 1316 | 1299 | 1293 | 1270 | 1267 | 1009 |
| 55° | 862 | 848 | 843 | 828 | 825 | 773 |
| 65° | 463 | 460 | 465 | 461 | 461 | 469 |
| 75° | 250 | 250 | 250 | 252 | 252 | 264 |
| 85° | 64 | 67 | 71 | 71 | 71 | 77 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P561976

CATALOG NUMBER: SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2059.9 | 2059.9 | 2059.9 | 2059.9 | 2059.9 |
| 2.5° | 2072.7 | 2054.6 | 2059.9 | 2055.4 | 2045.7 |
| 5° | 2070.5 | 2048.0 | 2054.6 | 2047.4 | 2043.9 |
| 7.5° | 2054.6 | 2032.4 | 2039.0 | 2031.8 | 2029.7 |
| 10° | 2040.4 | 2019.6 | 2026.2 | 2019.0 | 2015.5 |
| 12.5° | 2024.8 | 2002.6 | 2010.6 | 2002.0 | 1998.5 |
| 15° | 1992.5 | 1971.7 | 1980.1 | 1972.9 | 1969.4 |
| 17.5° | 1957.0 | 1934.8 | 1943.1 | 1934.9 | 1930.4 |
| 20° | 1928.6 | 1907.8 | 1916.2 | 1903.7 | 1902.0 |
| 22.5° | 1897.4 | 1876.6 | 1885.0 | 1868.3 | 1867.9 |
| 25° | 1847.0 | 1824.4 | 1834.6 | 1815.0 | 1813.3 |
| 27.5° | 1787.0 | 1766.2 | 1774.6 | 1754.7 | 1752.6 |
| 30° | 1745.9 | 1725.0 | 1733.4 | 1712.1 | 1708.6 |
| 32.5° | 1699.0 | 1679.6 | 1686.6 | 1665.3 | 1663.2 |
| 35° | 1627.0 | 1607.9 | 1612.8 | 1591.5 | 1589.7 |
| 37.5° | 1545.0 | 1527.7 | 1530.5 | 1507.0 | 1505.3 |
| 40° | 1486.8 | 1469.5 | 1470.8 | 1446.0 | 1444.2 |
| 42.5° | 1422.9 | 1405.6 | 1404.1 | 1379.3 | 1377.5 |
| 45° | 1316.5 | 1299.1 | 1293.4 | 1270.3 | 1266.8 |
| 47.5° | 1195.1 | 1177.8 | 1167.1 | 1148.2 | 1145.8 |
| 50° | 1107.1 | 1089.8 | 1080.5 | 1064.4 | 1059.2 |
| 52.5° | 1012.0 | 994.7 | 986.8 | 972.2 | 967.0 |
| 55° | 862.3 | 848.4 | 842.8 | 828.5 | 825.0 |
| 57.5° | 720.0 | 710.6 | 709.0 | 695.1 | 693.7 |
| 60° | 633.4 | 628.2 | 628.1 | 615.7 | 615.7 |
| 62.5° | 559.6 | 555.8 | 558.5 | 550.3 | 548.9 |
| 65° | 463.1 | 459.6 | 464.9 | 461.3 | 461.3 |
| 67.5° | 386.8 | 386.8 | 390.0 | 388.6 | 388.6 |
| 70° | 344.2 | 344.2 | 346.0 | 346.0 | 346.0 |
| 72.5° | 305.9 | 304.5 | 309.1 | 309.0 | 307.7 |
| 75° | 250.2 | 250.2 | 250.2 | 251.9 | 251.9 |
| 77.5° | 194.8 | 195.2 | 196.6 | 196.2 | 194.8 |
| 80° | 157.9 | 159.6 | 159.7 | 157.9 | 157.9 |
| 82.5° | 121.0 | 122.7 | 122.8 | 122.4 | 121.0 |
| 85° | 63.9 | 67.3 | 71.0 | 71.0 | 71.0 |
| 87.5° | 18.5 | 24.0 | 28.4 | 28.4 | 27.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)