

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: P561505

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561505
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

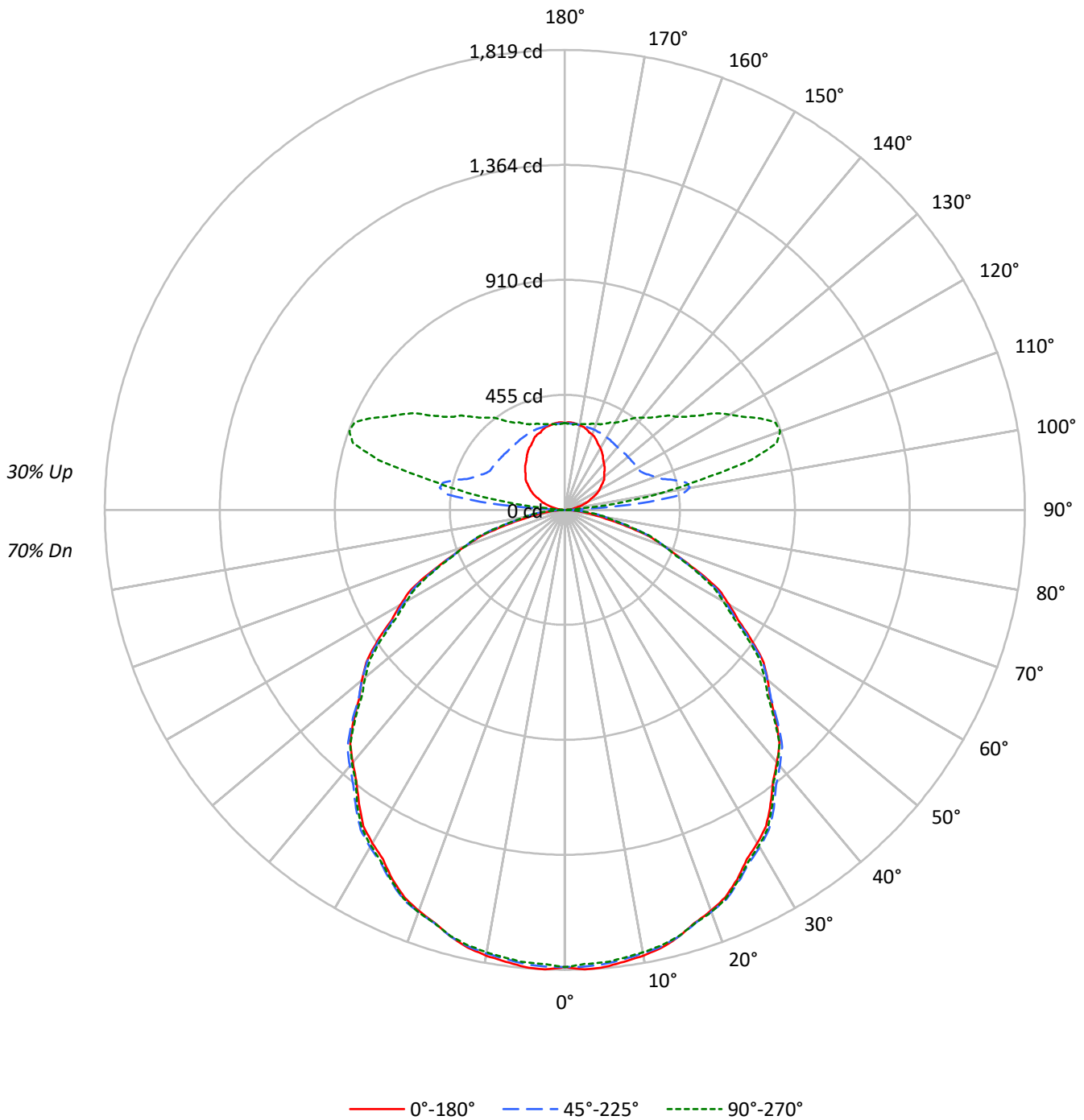
Lumens per Lamp: N/A
Luminaire Lumens: 7067.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.5
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: P561505
CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561505

CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

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 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 | 70 |
| 1 | 102 | 98 | 94 | 90 | 97 | 93 | 89 | 86 | 83 | 80 | 78 | 74 | 72 | 70 | 66 | 64 | 63 | 59 |
| 2 | 93 | 86 | 79 | 74 | 88 | 81 | 75 | 71 | 73 | 68 | 65 | 65 | 62 | 59 | 58 | 55 | 53 | 49 |
| 3 | 85 | 75 | 68 | 62 | 80 | 71 | 65 | 59 | 64 | 59 | 54 | 58 | 53 | 50 | 51 | 48 | 45 | 42 |
| 4 | 78 | 67 | 58 | 52 | 73 | 63 | 56 | 50 | 57 | 51 | 46 | 51 | 46 | 43 | 46 | 42 | 39 | 36 |
| 5 | 71 | 59 | 51 | 45 | 67 | 57 | 49 | 43 | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 34 | 31 |
| 6 | 66 | 53 | 45 | 39 | 62 | 51 | 43 | 38 | 46 | 40 | 35 | 42 | 36 | 32 | 37 | 33 | 30 | 27 |
| 7 | 61 | 48 | 40 | 34 | 58 | 46 | 38 | 33 | 42 | 35 | 31 | 38 | 33 | 29 | 34 | 30 | 26 | 24 |
| 8 | 57 | 44 | 36 | 30 | 53 | 42 | 35 | 29 | 38 | 32 | 27 | 35 | 29 | 26 | 31 | 27 | 24 | 21 |
| 9 | 53 | 40 | 32 | 27 | 50 | 38 | 31 | 26 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 21 | 19 |
| 10 | 49 | 37 | 29 | 24 | 47 | 35 | 28 | 24 | 32 | 26 | 22 | 30 | 24 | 21 | 27 | 23 | 19 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16686 | 16686 | 16686 |
| 5° | 16811 | 16703 | 16641 |
| 10° | 16771 | 16692 | 16645 |
| 15° | 16682 | 16682 | 16667 |
| 20° | 16572 | 16621 | 16621 |
| 25° | 16416 | 16535 | 16484 |
| 30° | 16216 | 16413 | 16341 |
| 35° | 15974 | 16220 | 16106 |
| 40° | 15711 | 15933 | 15772 |
| 45° | 15425 | 15535 | 15295 |
| 50° | 15022 | 15022 | 14781 |
| 55° | 14544 | 14356 | 14141 |
| 60° | 13843 | 13564 | 13348 |
| 65° | 12795 | 12540 | 12428 |
| 70° | 11203 | 11292 | 11249 |
| 75° | 9015 | 9967 | 10028 |
| 80° | 6408 | 8453 | 8544 |
| 85° | 3896 | 7093 | 7093 |



TEST NUMBER: P561505

CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.2 | 2.4 |
| 10°-20° | 491.2 | 6.9 |
| 20°-30° | 743.8 | 10.5 |
| 30°-40° | 891.7 | 12.6 |
| 40°-50° | 909.2 | 12.9 |
| 50°-60° | 793.7 | 11.2 |
| 60°-70° | 568.2 | 8.0 |
| 70°-80° | 292.7 | 4.1 |
| 80°-90° | 74.0 | 1.0 |
| 90°-100° | 156.4 | 2.2 |
| 100°-110° | 444.9 | 6.3 |
| 110°-120° | 426.3 | 6.0 |
| 120°-130° | 337.4 | 4.8 |
| 130°-140° | 270.8 | 3.8 |
| 140°-150° | 212.0 | 3.0 |
| 150°-160° | 155.1 | 2.2 |
| 160°-170° | 96.1 | 1.4 |
| 170°-180° | 32.6 | 0.5 |
| 0°-30° | 1406.1 | 19.9 |
| 0°-40° | 2297.8 | 32.5 |
| 0°-60° | 4000.8 | 56.6 |
| 0°-90° | 4935.7 | 69.8 |
| 90°-120° | 1027.6 | 14.5 |
| 90°-150° | 1847.8 | 26.1 |
| 90°-180° | 2132.0 | 30.2 |
| 0°-180° | 7067.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1808 | 1808 | 1808 | 1808 | 1808 | |
| 5° | 1815 | 1797 | 1804 | 1798 | 1797 | 172 |
| 15° | 1746 | 1732 | 1746 | 1746 | 1745 | 492 |
| 25° | 1613 | 1601 | 1624 | 1619 | 1619 | 742 |
| 35° | 1418 | 1415 | 1440 | 1430 | 1430 | 887 |
| 45° | 1182 | 1179 | 1191 | 1175 | 1172 | 910 |
| 55° | 904 | 893 | 892 | 879 | 879 | 806 |
| 65° | 586 | 573 | 574 | 569 | 569 | 580 |
| 75° | 253 | 264 | 280 | 281 | 281 | 273 |
| 85° | 37 | 56 | 67 | 69 | 67 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 17 | 67 | 303 | 105 | 65 | 19 |
| 105° | 69 | 105 | 453 | 801 | 761 | 73 |
| 115° | 128 | 155 | 344 | 728 | 855 | 127 |
| 125° | 181 | 201 | 328 | 545 | 651 | 162 |
| 135° | 222 | 240 | 324 | 460 | 520 | 171 |
| 145° | 262 | 275 | 327 | 398 | 434 | 163 |
| 155° | 299 | 306 | 335 | 360 | 374 | 138 |
| 165° | 330 | 331 | 339 | 346 | 351 | 93 |
| 175° | 346 | 344 | 342 | 340 | 338 | 33 |
| 180° | 343 | 343 | 343 | 343 | 343 | |

TEST NUMBER: P561505

CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1808.5 | 1808.5 | 1808.5 | 1808.5 | 1808.5 |
| 2.5° | 1819.2 | 1803.5 | 1808.5 | 1804.3 | 1797.8 |
| 5° | 1815.2 | 1797.2 | 1803.5 | 1798.4 | 1796.8 |
| 7.5° | 1802.1 | 1784.1 | 1792.4 | 1789.0 | 1787.4 |
| 10° | 1790.1 | 1772.1 | 1781.7 | 1778.3 | 1776.7 |
| 12.5° | 1774.0 | 1757.3 | 1768.3 | 1764.9 | 1764.6 |
| 15° | 1746.5 | 1731.8 | 1746.5 | 1746.5 | 1744.9 |
| 17.5° | 1712.0 | 1698.6 | 1714.4 | 1715.4 | 1714.4 |
| 20° | 1687.9 | 1673.2 | 1692.9 | 1691.3 | 1692.9 |
| 22.5° | 1658.5 | 1646.3 | 1667.5 | 1663.2 | 1664.8 |
| 25° | 1612.6 | 1601.1 | 1624.3 | 1619.3 | 1619.3 |
| 27.5° | 1558.3 | 1550.1 | 1575.4 | 1570.0 | 1570.0 |
| 30° | 1522.1 | 1514.0 | 1540.6 | 1533.9 | 1533.9 |
| 32.5° | 1482.0 | 1476.4 | 1501.7 | 1493.7 | 1493.7 |
| 35° | 1418.3 | 1415.0 | 1440.1 | 1430.0 | 1430.0 |
| 37.5° | 1352.7 | 1349.7 | 1372.4 | 1360.3 | 1356.4 |
| 40° | 1304.5 | 1302.8 | 1322.9 | 1309.5 | 1309.5 |
| 42.5° | 1256.2 | 1254.6 | 1272.0 | 1255.9 | 1255.9 |
| 45° | 1182.2 | 1178.9 | 1190.6 | 1175.4 | 1172.2 |
| 47.5° | 1101.5 | 1098.2 | 1105.5 | 1089.1 | 1087.4 |
| 50° | 1046.6 | 1043.3 | 1046.6 | 1031.5 | 1029.8 |
| 52.5° | 990.3 | 984.4 | 985.0 | 969.9 | 969.6 |
| 55° | 904.2 | 892.8 | 892.5 | 879.1 | 879.1 |
| 57.5° | 813.1 | 798.1 | 799.4 | 788.0 | 786.4 |
| 60° | 750.2 | 733.8 | 735.1 | 725.0 | 723.4 |
| 62.5° | 688.6 | 669.6 | 673.5 | 662.1 | 661.8 |
| 65° | 586.1 | 573.0 | 574.4 | 569.3 | 569.3 |
| 67.5° | 487.6 | 475.5 | 484.3 | 480.2 | 479.9 |
| 70° | 415.3 | 407.1 | 418.6 | 418.6 | 417.0 |
| 72.5° | 348.3 | 348.0 | 362.4 | 362.4 | 363.4 |
| 75° | 252.9 | 264.3 | 279.6 | 281.3 | 281.3 |
| 77.5° | 168.8 | 189.1 | 206.0 | 206.6 | 206.3 |
| 80° | 120.6 | 143.5 | 159.1 | 162.4 | 160.8 |
| 82.5° | 81.7 | 105.9 | 118.9 | 122.2 | 120.6 |
| 85° | 36.8 | 56.5 | 67.0 | 68.6 | 67.0 |
| 87.5° | 10.7 | 22.5 | 26.8 | 26.7 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 5.2 | 27.7 | 64.2 | 18.7 | 14.1 |
| 95° | 17.0 | 67.4 | 302.7 | 104.8 | 64.6 |
| 97.5° | 31.2 | 78.9 | 466.2 | 333.6 | 228.6 |
| 100° | 41.1 | 85.8 | 501.7 | 508.2 | 391.4 |
| 102.5° | 52.1 | 93.1 | 493.9 | 650.5 | 548.5 |
| 105° | 69.2 | 104.9 | 453.4 | 800.9 | 761.3 |
| 107.5° | 86.5 | 118.5 | 406.2 | 843.3 | 878.5 |
| 110° | 98.5 | 128.5 | 379.0 | 827.1 | 906.2 |

TEST NUMBER: P561505

CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------------|-------|-------|-------|-------|
| 112.5° | <i>110.0</i> | 138.4 | 360.8 | 788.7 | 901.5 |
| 115° | <i>128.5</i> | 155.3 | 343.8 | 728.3 | 855.3 |
| 117.5° | <i>144.8</i> | 170.0 | 333.8 | 662.4 | 796.8 |
| 120° | <i>157.9</i> | 178.9 | 332.7 | 624.7 | 753.5 |
| 122.5° | <i>168.3</i> | 189.4 | 330.1 | 591.6 | 711.2 |
| 125° | <i>181.4</i> | 201.1 | 328.2 | 544.6 | 651.1 |
| 127.5° | <i>195.6</i> | 214.1 | 327.1 | 516.5 | 604.2 |
| 130° | <i>202.9</i> | 221.4 | 325.5 | 496.9 | 573.4 |
| 132.5° | <i>210.7</i> | 228.7 | 325.5 | 481.6 | 552.1 |
| 135° | <i>221.8</i> | 240.3 | 324.2 | 460.0 | 520.0 |
| 137.5° | <i>232.3</i> | 250.2 | 324.1 | 441.7 | 493.5 |
| 140° | <i>240.1</i> | 258.6 | 323.6 | 426.5 | 476.2 |
| 142.5° | <i>249.0</i> | 264.4 | 325.2 | 414.4 | 459.0 |
| 145° | <i>261.6</i> | 275.0 | 326.8 | 398.1 | 433.8 |
| 147.5° | <i>272.4</i> | 285.5 | 329.7 | 381.7 | 412.6 |
| 150° | <i>281.8</i> | 290.8 | 330.8 | 376.3 | 398.0 |
| 152.5° | <i>289.1</i> | 298.6 | 331.8 | 368.9 | 389.1 |
| 155° | <i>298.8</i> | 305.8 | 334.7 | 359.8 | 374.5 |
| 157.5° | <i>310.8</i> | 315.0 | 335.3 | 355.7 | 366.1 |
| 160° | <i>317.1</i> | 320.3 | 337.9 | 352.5 | 361.4 |
| 162.5° | <i>320.7</i> | 324.4 | 338.5 | 349.8 | 356.7 |
| 165° | <i>330.1</i> | 331.4 | 338.6 | 345.9 | 351.0 |
| 167.5° | <i>336.5</i> | 335.4 | 341.6 | 344.9 | 346.9 |
| 170° | <i>338.6</i> | 338.0 | 340.5 | 341.3 | 343.8 |
| 172.5° | <i>343.3</i> | 341.1 | 342.1 | 340.2 | 342.2 |
| 175° | <i>345.8</i> | 343.9 | 342.5 | 340.5 | 337.9 |
| 177.5° | <i>346.8</i> | 343.7 | 342.1 | 340.0 | 340.5 |
| 180° | <i>343.2</i> | 343.2 | 343.2 | 343.2 | 343.2 |

(END OF REPORT)