

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: P563235

Luminaire Tested: **SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563235
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

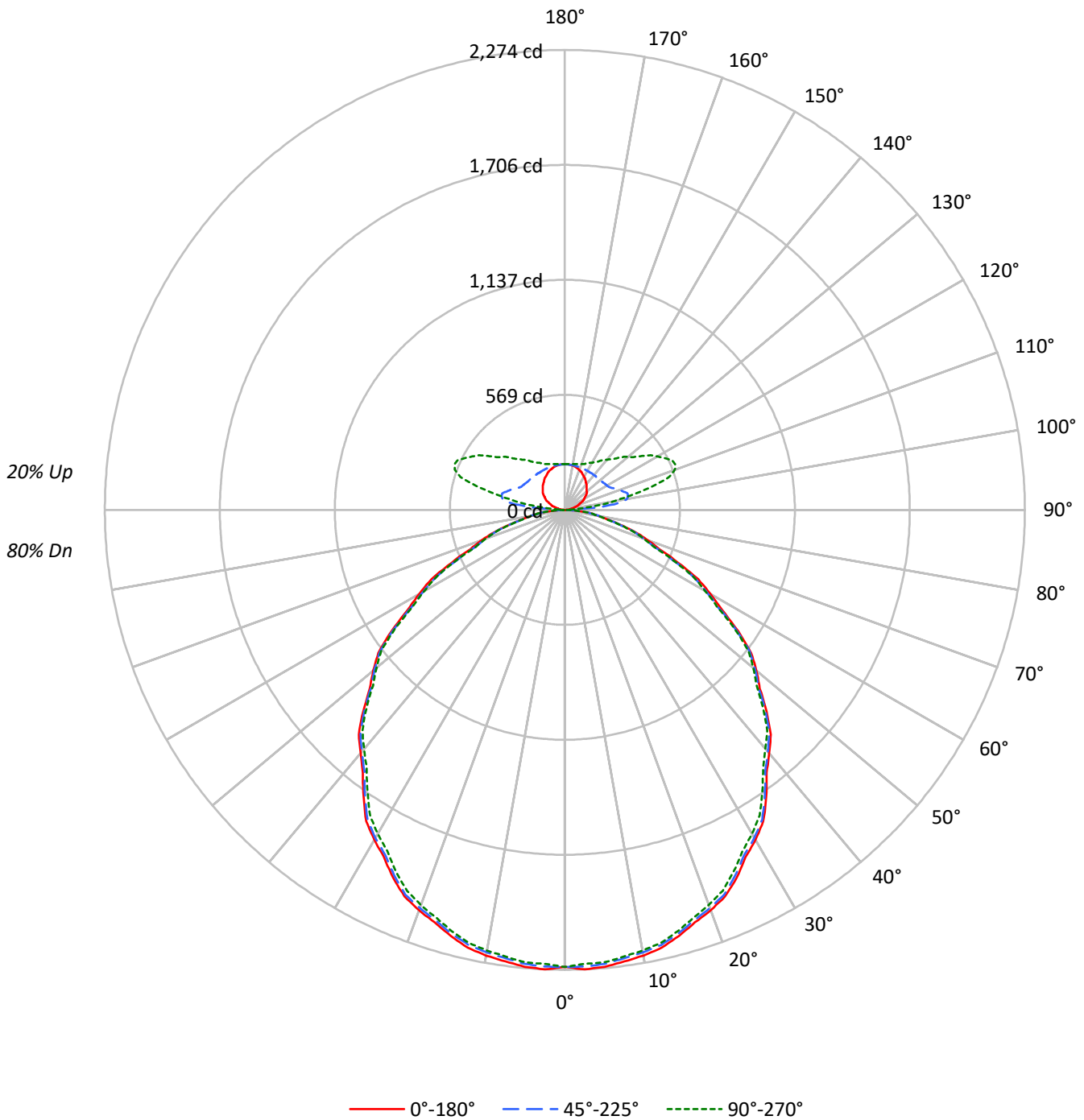
Lumens per Lamp: N/A
Luminaire Lumens: 7248.5 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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: P563235
CATALOG NUMBER: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563235

CATALOG NUMBER: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6

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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 80 |
| 1 | 105 | 100 | 96 | 93 | 100 | 96 | 93 | 90 | 88 | 86 | 83 | 81 | 79 | 77 | 74 | 73 | 71 | 68 |
| 2 | 96 | 88 | 82 | 76 | 91 | 85 | 79 | 74 | 78 | 73 | 69 | 72 | 68 | 65 | 66 | 63 | 60 | 57 |
| 3 | 88 | 78 | 70 | 64 | 83 | 75 | 68 | 62 | 69 | 63 | 59 | 64 | 59 | 55 | 59 | 55 | 52 | 49 |
| 4 | 80 | 69 | 61 | 55 | 76 | 66 | 59 | 53 | 61 | 55 | 50 | 57 | 52 | 47 | 52 | 48 | 45 | 42 |
| 5 | 74 | 62 | 53 | 47 | 70 | 59 | 52 | 46 | 55 | 49 | 44 | 51 | 46 | 41 | 47 | 43 | 39 | 37 |
| 6 | 68 | 56 | 47 | 41 | 65 | 54 | 46 | 40 | 50 | 43 | 38 | 46 | 41 | 36 | 43 | 38 | 35 | 32 |
| 7 | 63 | 50 | 42 | 36 | 60 | 49 | 41 | 35 | 45 | 39 | 34 | 42 | 37 | 32 | 39 | 34 | 31 | 29 |
| 8 | 59 | 46 | 38 | 32 | 56 | 44 | 37 | 32 | 41 | 35 | 30 | 39 | 33 | 29 | 36 | 31 | 28 | 26 |
| 9 | 55 | 42 | 34 | 29 | 52 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 33 | 29 | 25 | 23 |
| 10 | 51 | 39 | 31 | 26 | 49 | 38 | 30 | 26 | 35 | 29 | 25 | 33 | 28 | 24 | 31 | 26 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13900 | 13900 | 13900 |
| 5° | 14001 | 13916 | 13867 |
| 10° | 13978 | 13879 | 13817 |
| 15° | 13886 | 13810 | 13734 |
| 20° | 13793 | 13716 | 13612 |
| 25° | 13630 | 13535 | 13401 |
| 30° | 13377 | 13307 | 13138 |
| 35° | 13028 | 12938 | 12775 |
| 40° | 12611 | 12531 | 12388 |
| 45° | 12267 | 12181 | 12060 |
| 50° | 11826 | 11750 | 11637 |
| 55° | 11214 | 11066 | 10980 |
| 60° | 10209 | 9916 | 9867 |
| 65° | 8993 | 8619 | 8590 |
| 70° | 7765 | 7443 | 7443 |
| 75° | 6683 | 6590 | 6495 |
| 80° | 5894 | 5961 | 5823 |
| 85° | 4615 | 5032 | 5032 |



TEST NUMBER: P563235

CATALOG NUMBER: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.7 | 2.9 |
| 10°-20° | 610.1 | 8.4 |
| 20°-30° | 913.9 | 12.6 |
| 30°-40° | 1072.0 | 14.8 |
| 40°-50° | 1075.3 | 14.8 |
| 50°-60° | 917.4 | 12.7 |
| 60°-70° | 598.3 | 8.3 |
| 70°-80° | 300.1 | 4.1 |
| 80°-90° | 84.3 | 1.2 |
| 90°-100° | 110.0 | 1.5 |
| 100°-110° | 289.3 | 4.0 |
| 110°-120° | 300.0 | 4.1 |
| 120°-130° | 240.6 | 3.3 |
| 130°-140° | 188.8 | 2.6 |
| 140°-150° | 144.9 | 2.0 |
| 150°-160° | 104.4 | 1.4 |
| 160°-170° | 63.9 | 0.9 |
| 170°-180° | 21.6 | 0.3 |
| 0°-30° | 1737.7 | 24.0 |
| 0°-40° | 2809.7 | 38.8 |
| 0°-60° | 4802.4 | 66.3 |
| 0°-90° | 5785.1 | 79.8 |
| 90°-120° | 699.3 | 9.6 |
| 90°-150° | 1273.6 | 17.6 |
| 90°-180° | 1463.0 | 20.2 |
| 0°-180° | 7248.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2260 | 2260 | 2260 | 2260 | 2260 | |
| 5° | 2268 | 2246 | 2254 | 2246 | 2246 | 215 |
| 15° | 2181 | 2159 | 2169 | 2161 | 2157 | 615 |
| 25° | 2008 | 1985 | 1994 | 1977 | 1975 | 923 |
| 35° | 1735 | 1718 | 1723 | 1703 | 1701 | 1084 |
| 45° | 1410 | 1400 | 1400 | 1386 | 1386 | 1086 |
| 55° | 1046 | 1042 | 1032 | 1026 | 1024 | 929 |
| 65° | 618 | 606 | 592 | 588 | 590 | 617 |
| 75° | 281 | 281 | 277 | 275 | 273 | 305 |
| 85° | 65 | 71 | 71 | 71 | 71 | 77 |
| 90° | 1 | 4 | 12 | 6 | 6 | 4 |
| 95° | 14 | 57 | 190 | 98 | 67 | 16 |
| 105° | 52 | 79 | 320 | 486 | 453 | 55 |
| 115° | 93 | 112 | 256 | 511 | 583 | 91 |
| 125° | 129 | 144 | 233 | 394 | 465 | 114 |
| 135° | 153 | 169 | 226 | 318 | 360 | 119 |
| 145° | 178 | 189 | 223 | 271 | 292 | 112 |
| 155° | 201 | 207 | 223 | 245 | 252 | 92 |
| 165° | 217 | 220 | 223 | 232 | 234 | 61 |
| 175° | 226 | 226 | 224 | 227 | 227 | 21 |
| 180° | 226 | 226 | 226 | 226 | 226 | |

TEST NUMBER: P563235

CATALOG NUMBER: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2259.8 | 2259.8 | 2259.8 | 2259.8 | 2259.8 |
| 2.5° | 2274.1 | 2255.5 | 2259.8 | 2256.4 | 2247.1 |
| 5° | 2267.7 | 2246.4 | 2253.9 | 2246.0 | 2246.0 |
| 7.5° | 2252.3 | 2229.0 | 2236.4 | 2228.5 | 2228.1 |
| 10° | 2238.0 | 2214.8 | 2222.2 | 2214.2 | 2212.3 |
| 12.5° | 2217.4 | 2194.2 | 2203.2 | 2193.7 | 2193.3 |
| 15° | 2180.6 | 2159.3 | 2168.7 | 2160.7 | 2156.8 |
| 17.5° | 2139.0 | 2115.8 | 2127.1 | 2116.0 | 2114.4 |
| 20° | 2107.3 | 2084.1 | 2095.4 | 2079.6 | 2079.6 |
| 22.5° | 2069.3 | 2046.0 | 2059.0 | 2038.4 | 2038.4 |
| 25° | 2008.3 | 1985.0 | 1994.4 | 1976.6 | 1974.6 |
| 27.5° | 1935.8 | 1912.9 | 1922.7 | 1902.5 | 1902.1 |
| 30° | 1883.5 | 1862.2 | 1873.6 | 1851.8 | 1849.8 |
| 32.5° | 1826.5 | 1806.7 | 1815.0 | 1793.2 | 1791.2 |
| 35° | 1735.0 | 1717.5 | 1723.1 | 1703.2 | 1701.3 |
| 37.5° | 1638.7 | 1620.9 | 1627.2 | 1610.2 | 1609.4 |
| 40° | 1570.6 | 1559.0 | 1560.7 | 1546.7 | 1542.9 |
| 42.5° | 1507.2 | 1494.0 | 1495.7 | 1481.8 | 1481.1 |
| 45° | 1410.2 | 1400.5 | 1400.3 | 1386.4 | 1386.4 |
| 47.5° | 1307.2 | 1299.8 | 1297.7 | 1286.2 | 1285.8 |
| 50° | 1235.9 | 1230.1 | 1227.9 | 1218.0 | 1216.1 |
| 52.5° | 1161.4 | 1158.7 | 1151.9 | 1143.6 | 1143.2 |
| 55° | 1045.7 | 1041.9 | 1031.9 | 1025.9 | 1023.9 |
| 57.5° | 920.2 | 912.4 | 901.2 | 892.5 | 894.0 |
| 60° | 829.9 | 822.1 | 806.1 | 802.1 | 802.1 |
| 62.5° | 742.7 | 733.4 | 717.4 | 711.9 | 715.0 |
| 65° | 617.9 | 606.3 | 592.2 | 588.3 | 590.2 |
| 67.5° | 504.6 | 494.2 | 478.9 | 478.9 | 477.3 |
| 70° | 431.8 | 426.0 | 413.9 | 413.9 | 413.9 |
| 72.5° | 366.8 | 364.1 | 355.3 | 355.3 | 353.7 |
| 75° | 281.2 | 281.2 | 277.3 | 275.3 | 273.3 |
| 77.5° | 210.7 | 211.5 | 209.5 | 207.5 | 204.0 |
| 80° | 166.4 | 170.2 | 168.3 | 166.3 | 164.4 |
| 82.5° | 125.2 | 129.0 | 128.7 | 125.2 | 124.8 |
| 85° | 65.4 | 71.2 | 71.3 | 71.3 | 71.3 |
| 87.5° | 17.7 | 24.5 | 27.7 | 26.5 | 28.1 |
| 90° | 1.4 | 4.3 | 11.6 | 5.8 | 5.8 |
| 92.5° | 6.1 | 29.3 | 64.8 | 28.7 | 18.5 |
| 95° | 14.5 | 56.9 | 189.6 | 97.7 | 66.6 |
| 97.5° | 25.2 | 62.5 | 283.7 | 225.6 | 166.2 |
| 100° | 33.3 | 67.3 | 312.6 | 316.8 | 246.0 |
| 102.5° | 40.2 | 71.9 | 320.7 | 394.6 | 334.0 |
| 105° | 52.1 | 79.0 | 319.9 | 485.6 | 453.0 |
| 107.5° | 64.3 | 89.2 | 301.6 | 532.8 | 540.7 |
| 110° | 72.4 | 95.0 | 286.6 | 545.0 | 578.9 |

TEST NUMBER: P563235

CATALOG NUMBER: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 80.5 | 102.0 | 272.7 | 537.3 | 589.4 |
| 115° | 92.6 | 112.4 | 256.2 | 511.1 | 583.3 |
| 117.5° | 104.5 | 122.6 | 244.9 | 474.8 | 554.9 |
| 120° | 111.4 | 128.4 | 240.3 | 450.4 | 528.3 |
| 122.5° | 118.4 | 135.4 | 236.8 | 426.1 | 502.8 |
| 125° | 128.8 | 144.4 | 233.0 | 393.8 | 464.6 |
| 127.5° | 137.2 | 153.1 | 229.8 | 367.8 | 427.5 |
| 130° | 141.8 | 158.8 | 228.7 | 351.5 | 406.7 |
| 132.5° | 146.5 | 163.5 | 227.5 | 337.5 | 387.0 |
| 135° | 153.4 | 169.0 | 225.8 | 317.9 | 360.4 |
| 137.5° | 160.7 | 175.9 | 225.5 | 303.3 | 338.1 |
| 140° | 166.4 | 180.6 | 224.3 | 291.7 | 324.2 |
| 142.5° | 171.1 | 184.1 | 224.3 | 283.4 | 311.5 |
| 145° | 178.0 | 189.3 | 222.9 | 271.1 | 292.4 |
| 147.5° | 185.0 | 196.0 | 222.9 | 260.9 | 278.5 |
| 150° | 189.6 | 199.5 | 222.9 | 255.1 | 269.2 |
| 152.5° | 194.2 | 201.9 | 222.9 | 250.3 | 261.1 |
| 155° | 201.2 | 206.8 | 222.9 | 244.8 | 251.8 |
| 157.5° | 206.4 | 211.8 | 222.9 | 239.8 | 244.9 |
| 160° | 209.9 | 214.1 | 222.9 | 237.4 | 240.3 |
| 162.5° | 213.3 | 216.5 | 222.9 | 235.1 | 237.9 |
| 165° | 217.1 | 219.9 | 222.9 | 231.6 | 234.5 |
| 167.5° | 220.6 | 222.0 | 224.3 | 230.2 | 231.3 |
| 170° | 222.9 | 224.3 | 224.3 | 230.1 | 230.1 |
| 172.5° | 224.0 | 224.3 | 224.3 | 228.9 | 227.8 |
| 175° | 225.8 | 225.8 | 224.3 | 227.2 | 227.2 |
| 177.5° | 225.8 | 225.8 | 224.6 | 226.9 | 225.8 |
| 180° | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 |

(END OF REPORT)