

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: P563859

Luminaire Tested: **SQ4-PR1-025U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563859
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

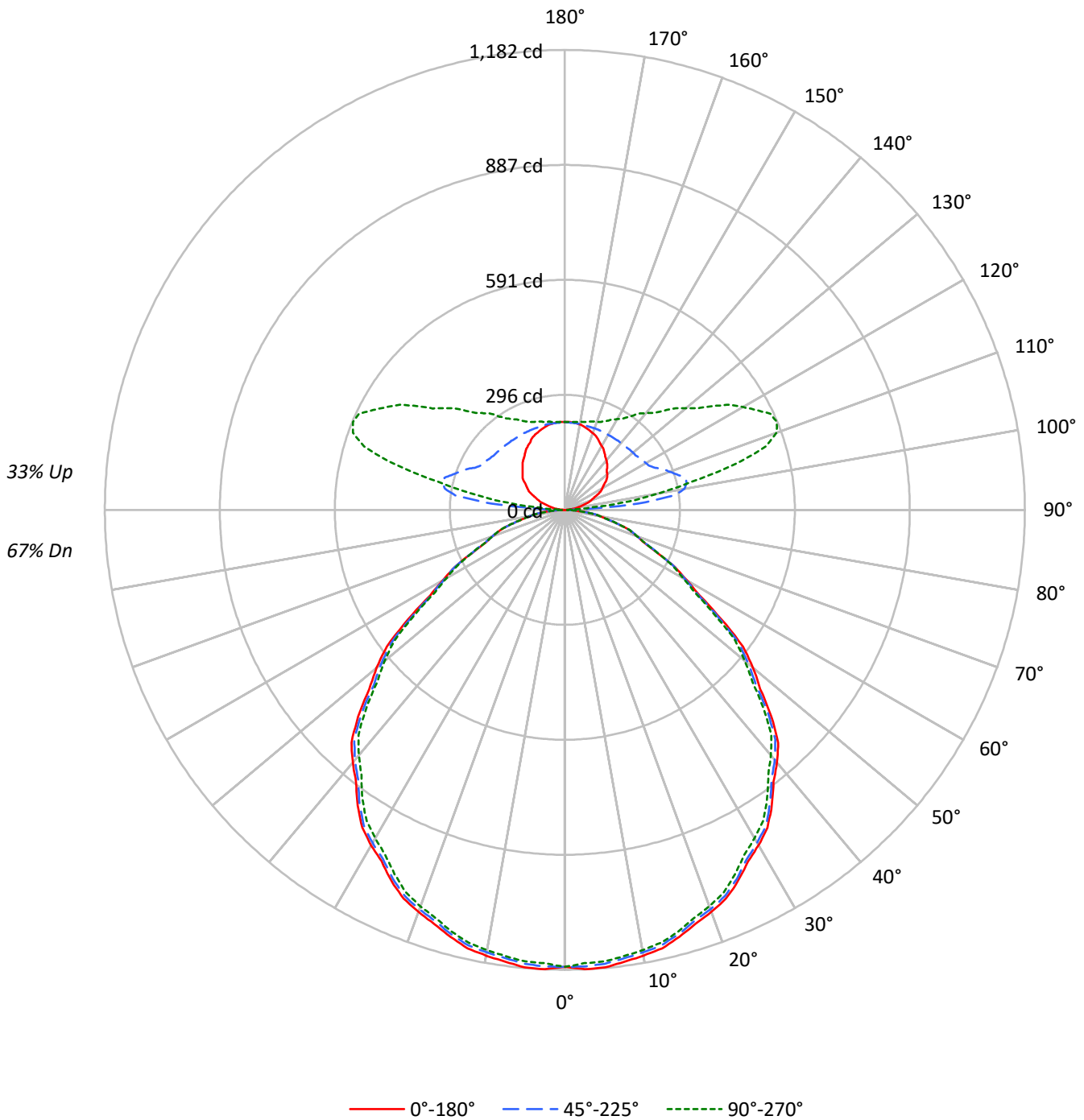
Lumens per Lamp: N/A
Luminaire Lumens: 4400.6 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 79 | 77 | 72 | 71 | 69 | 64 | 62 | 61 | 57 |
| 2 | 93 | 86 | 80 | 74 | 88 | 81 | 76 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 52 | 48 |
| 3 | 85 | 76 | 68 | 63 | 80 | 72 | 65 | 60 | 64 | 59 | 55 | 57 | 53 | 50 | 51 | 47 | 45 | 41 |
| 4 | 78 | 67 | 59 | 53 | 73 | 64 | 57 | 51 | 57 | 51 | 47 | 51 | 47 | 43 | 45 | 42 | 39 | 36 |
| 5 | 72 | 60 | 52 | 46 | 68 | 57 | 50 | 44 | 51 | 45 | 41 | 46 | 41 | 37 | 41 | 37 | 34 | 31 |
| 6 | 66 | 54 | 46 | 40 | 62 | 52 | 44 | 39 | 46 | 40 | 36 | 42 | 37 | 33 | 37 | 33 | 30 | 28 |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 29 | 34 | 30 | 27 | 24 |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 35 | 30 | 26 | 31 | 27 | 24 | 22 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 30 | 25 | 32 | 27 | 24 | 29 | 25 | 22 | 20 |
| 10 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 25 | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7224 | 7224 | 7224 |
| 5° | 7289 | 7233 | 7195 |
| 10° | 7266 | 7215 | 7177 |
| 15° | 7234 | 7189 | 7150 |
| 20° | 7197 | 7151 | 7098 |
| 25° | 7146 | 7099 | 7016 |
| 30° | 7070 | 7019 | 6918 |
| 35° | 6965 | 6904 | 6806 |
| 40° | 6806 | 6733 | 6611 |
| 45° | 6529 | 6414 | 6283 |
| 50° | 6040 | 5894 | 5779 |
| 55° | 5272 | 5153 | 5044 |
| 60° | 4442 | 4405 | 4318 |
| 65° | 3842 | 3857 | 3828 |
| 70° | 3528 | 3548 | 3548 |
| 75° | 3389 | 3389 | 3413 |
| 80° | 3188 | 3223 | 3188 |
| 85° | 2569 | 2858 | 2858 |



TEST NUMBER: P563859

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.1 | 2.5 |
| 10°-20° | 317.8 | 7.2 |
| 20°-30° | 479.3 | 10.9 |
| 30°-40° | 571.1 | 13.0 |
| 40°-50° | 563.0 | 12.8 |
| 50°-60° | 430.3 | 9.8 |
| 60°-70° | 266.3 | 6.1 |
| 70°-80° | 151.2 | 3.4 |
| 80°-90° | 47.2 | 1.1 |
| 90°-100° | 110.0 | 2.5 |
| 100°-110° | 289.3 | 6.6 |
| 110°-120° | 300.0 | 6.8 |
| 120°-130° | 240.6 | 5.5 |
| 130°-140° | 188.8 | 4.3 |
| 140°-150° | 144.9 | 3.3 |
| 150°-160° | 104.4 | 2.4 |
| 160°-170° | 63.9 | 1.5 |
| 170°-180° | 21.6 | 0.5 |
| 0°-30° | 908.1 | 20.6 |
| 0°-40° | 1479.1 | 33.6 |
| 0°-60° | 2472.4 | 56.2 |
| 0°-90° | 2937.2 | 66.7 |
| 90°-120° | 699.3 | 15.9 |
| 90°-150° | 1273.6 | 28.9 |
| 90°-180° | 1463.0 | 33.2 |
| 0°-180° | 4400.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1174 | 1174 | 1174 | 1174 | 1174 | |
| 5° | 1180 | 1168 | 1171 | 1167 | 1165 | 112 |
| 15° | 1136 | 1124 | 1129 | 1125 | 1123 | 321 |
| 25° | 1053 | 1040 | 1046 | 1035 | 1034 | 485 |
| 35° | 928 | 917 | 920 | 907 | 906 | 579 |
| 45° | 751 | 741 | 737 | 724 | 722 | 575 |
| 55° | 492 | 484 | 480 | 472 | 470 | 440 |
| 65° | 264 | 262 | 265 | 263 | 263 | 267 |
| 75° | 143 | 143 | 143 | 144 | 144 | 151 |
| 85° | 36 | 38 | 40 | 40 | 40 | 42 |
| 90° | 1 | 4 | 12 | 6 | 6 | 3 |
| 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: P563859

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1174.4 | 1174.4 | 1174.4 | 1174.4 | 1174.4 |
| 2.5° | 1181.7 | 1171.4 | 1174.4 | 1171.9 | 1166.3 |
| 5° | 1180.5 | 1167.6 | 1171.4 | 1167.3 | 1165.3 |
| 7.5° | 1171.4 | 1158.7 | 1162.5 | 1158.4 | 1157.2 |
| 10° | 1163.3 | 1151.4 | 1155.2 | 1151.1 | 1149.1 |
| 12.5° | 1154.4 | 1141.7 | 1146.3 | 1141.4 | 1139.4 |
| 15° | 1136.0 | 1124.1 | 1128.9 | 1124.8 | 1122.8 |
| 17.5° | 1115.8 | 1103.1 | 1107.9 | 1103.2 | 1100.6 |
| 20° | 1099.6 | 1087.7 | 1092.5 | 1085.4 | 1084.4 |
| 22.5° | 1081.8 | 1069.9 | 1074.7 | 1065.2 | 1065.0 |
| 25° | 1053.0 | 1040.2 | 1046.0 | 1034.8 | 1033.8 |
| 27.5° | 1018.9 | 1007.0 | 1011.8 | 1000.4 | 999.2 |
| 30° | 995.4 | 983.5 | 988.3 | 976.1 | 974.1 |
| 32.5° | 968.7 | 957.6 | 961.6 | 949.4 | 948.2 |
| 35° | 927.6 | 916.7 | 919.5 | 907.4 | 906.4 |
| 37.5° | 880.9 | 871.0 | 872.6 | 859.2 | 858.2 |
| 40° | 847.7 | 837.8 | 838.6 | 824.4 | 823.4 |
| 42.5° | 811.3 | 801.4 | 800.6 | 786.4 | 785.4 |
| 45° | 750.6 | 740.7 | 737.4 | 724.2 | 722.3 |
| 47.5° | 681.4 | 671.5 | 665.4 | 654.7 | 653.3 |
| 50° | 631.2 | 621.3 | 616.0 | 606.9 | 603.9 |
| 52.5° | 577.0 | 567.1 | 562.6 | 554.3 | 551.3 |
| 55° | 491.6 | 483.7 | 480.5 | 472.4 | 470.4 |
| 57.5° | 410.5 | 405.2 | 404.2 | 396.3 | 395.5 |
| 60° | 361.1 | 358.2 | 358.1 | 351.0 | 351.0 |
| 62.5° | 319.1 | 316.9 | 318.4 | 313.8 | 313.0 |
| 65° | 264.0 | 262.0 | 265.0 | 263.0 | 263.0 |
| 67.5° | 220.5 | 220.5 | 222.3 | 221.5 | 221.5 |
| 70° | 196.2 | 196.2 | 197.3 | 197.3 | 197.3 |
| 72.5° | 174.4 | 173.6 | 176.2 | 176.2 | 175.4 |
| 75° | 142.6 | 142.6 | 142.6 | 143.6 | 143.6 |
| 77.5° | 111.1 | 111.3 | 112.1 | 111.9 | 111.1 |
| 80° | 90.0 | 91.0 | 91.0 | 90.0 | 90.0 |
| 82.5° | 69.0 | 70.0 | 70.0 | 69.8 | 69.0 |
| 85° | 36.4 | 38.4 | 40.5 | 40.5 | 40.5 |
| 87.5° | 10.8 | 14.5 | 18.5 | 17.3 | 16.5 |
| 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: P563859

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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)