

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: P519688

Luminaire Tested: **SQ4-050U-0D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519688  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-050U-0D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

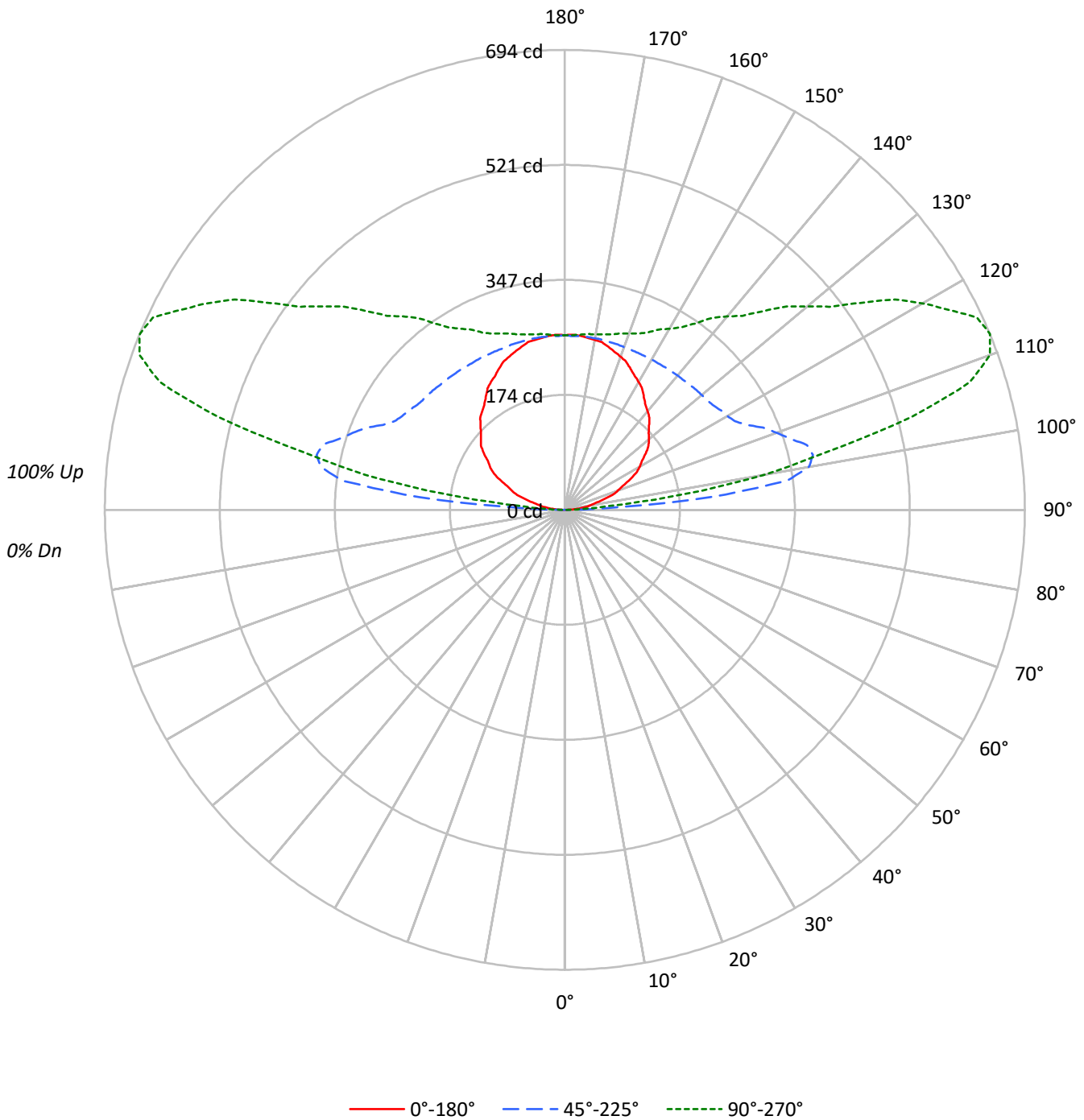
Lumens per Lamp: N/A  
Luminaire Lumens: 1722.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 12.3  
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: P519688  
CATALOG NUMBER: SQ4-050U-0D-940-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P519688

CATALOG NUMBER: SQ4-050U-0D-940-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF  | 20 |    |    |    |    |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |   |
| RC  | 80 |    |    |    |    |    |    |    | 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   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 0 |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0 |
| 3   | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0 |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 0 |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 0 |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0 |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0 |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0 |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0 |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 0 |

**AVERAGE LUMINANCE (cd/sqm):**

|      | 0°   | 45°   | 90°   |
|------|------|-------|-------|
| 95°  | 1980 | 23342 | 6817  |
| 100° | 2072 | 19871 | 16264 |
| 105° | 2178 | 13482 | 19317 |
| 110° | 2309 | 9174  | 18414 |
| 115° | 2369 | 6608  | 14976 |
| 120° | 2410 | 5226  | 11501 |
| 125° | 2400 | 4406  | 8757  |
| 130° | 2374 | 3871  | 6852  |
| 135° | 2346 | 3475  | 5532  |
| 140° | 2339 | 3187  | 4586  |
| 145° | 2340 | 2961  | 3868  |
| 150° | 2376 | 2791  | 3361  |
| 155° | 2391 | 2659  | 3004  |
| 160° | 2414 | 2565  | 2781  |
| 165° | 2430 | 2503  | 2616  |
| 170° | 2439 | 2463  | 2518  |
| 175° | 2442 | 2435  | 2458  |



TEST NUMBER: P519688

CATALOG NUMBER: SQ4-050U-0D-940-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 126.6  | 7.4       |
| 100°-110° | 343.9  | 20.0      |
| 110°-120° | 353.6  | 20.5      |
| 120°-130° | 282.7  | 16.4      |
| 130°-140° | 222.2  | 12.9      |
| 140°-150° | 170.3  | 9.9       |
| 150°-160° | 122.5  | 7.1       |
| 160°-170° | 74.9   | 4.4       |
| 170°-180° | 25.2   | 1.5       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 0.0    | 0.0       |
| 90°-120°  | 824.1  | 47.9      |
| 90°-150°  | 1499.3 | 87.1      |
| 90°-180°  | 1722.0 | 100.0     |
| 0°-180°   | 1722.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 90°  | 1   | 3     | 6   | 8     | 8   |      |
| 95°  | 19  | 69    | 220 | 96    | 64  | 21   |
| 105° | 61  | 95    | 378 | 576   | 542 | 65   |
| 115° | 108 | 132   | 303 | 602   | 686 | 107  |
| 125° | 149 | 170   | 274 | 462   | 544 | 133  |
| 135° | 180 | 200   | 266 | 376   | 424 | 139  |
| 145° | 208 | 223   | 263 | 319   | 343 | 130  |
| 155° | 235 | 243   | 261 | 287   | 295 | 108  |
| 165° | 254 | 258   | 262 | 273   | 274 | 72   |
| 175° | 264 | 265   | 263 | 266   | 265 | 25   |
| 180° | 264 | 264   | 264 | 264   | 264 |      |



TEST NUMBER: P519688

CATALOG NUMBER: SQ4-050U-0D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 90°    | 0.8   | 3.3   | 5.9   | 7.6   | 7.6   |
| 92.5°  | 7.6   | 34.7  | 60.2  | 25.9  | 21.9  |
| 95°    | 18.7  | 69.2  | 220.5 | 96.0  | 64.4  |
| 97.5°  | 30.9  | 76.5  | 338.0 | 263.0 | 184.7 |
| 100°   | 39.0  | 81.3  | 374.0 | 379.1 | 306.1 |
| 102.5° | 47.1  | 86.1  | 383.5 | 468.8 | 404.5 |
| 105°   | 61.1  | 95.1  | 378.2 | 575.9 | 541.9 |
| 107.5° | 75.5  | 105.5 | 356.3 | 631.1 | 640.6 |
| 110°   | 85.6  | 113.0 | 340.1 | 642.0 | 682.6 |
| 112.5° | 94.5  | 120.5 | 323.8 | 633.0 | 694.2 |
| 115°   | 108.5 | 131.8 | 302.7 | 602.3 | 686.0 |
| 117.5° | 121.8 | 144.0 | 289.3 | 558.8 | 653.1 |
| 120°   | 130.6 | 152.2 | 283.2 | 529.6 | 623.3 |
| 122.5° | 138.1 | 159.6 | 279.2 | 500.3 | 590.7 |
| 125°   | 149.2 | 170.0 | 273.9 | 461.5 | 544.4 |
| 127.5° | 159.3 | 179.8 | 271.0 | 432.1 | 503.2 |
| 130°   | 165.4 | 185.3 | 269.7 | 413.6 | 477.4 |
| 132.5° | 171.5 | 191.4 | 268.3 | 397.8 | 454.4 |
| 135°   | 179.8 | 199.7 | 266.3 | 375.9 | 424.0 |
| 137.5° | 188.8 | 206.8 | 265.3 | 356.6 | 397.0 |
| 140°   | 194.2 | 211.6 | 264.6 | 344.3 | 380.8 |
| 142.5° | 199.6 | 215.7 | 263.9 | 334.6 | 365.2 |
| 145°   | 207.8 | 222.7 | 262.9 | 319.4 | 343.4 |
| 147.5° | 216.9 | 229.7 | 262.0 | 307.4 | 326.3 |
| 150°   | 223.0 | 233.8 | 262.0 | 300.5 | 315.5 |
| 152.5° | 227.8 | 237.2 | 261.4 | 294.4 | 306.6 |
| 155°   | 234.9 | 243.2 | 261.2 | 286.8 | 295.1 |
| 157.5° | 241.9 | 248.3 | 261.2 | 281.7 | 288.0 |
| 160°   | 245.9 | 251.7 | 261.2 | 278.3 | 283.2 |
| 162.5° | 250.0 | 254.5 | 261.9 | 275.5 | 279.2 |
| 165°   | 254.4 | 257.7 | 262.0 | 273.1 | 273.9 |
| 167.5° | 259.0 | 260.6 | 262.9 | 270.2 | 270.9 |
| 170°   | 260.3 | 262.0 | 262.9 | 268.8 | 268.8 |
| 172.5° | 261.7 | 262.7 | 262.9 | 267.5 | 267.5 |
| 175°   | 263.7 | 264.6 | 262.9 | 266.3 | 265.4 |
| 177.5° | 264.4 | 264.4 | 262.4 | 265.1 | 263.7 |
| 180°   | 263.7 | 263.7 | 263.7 | 263.7 | 263.7 |

(END OF REPORT)