

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520908

Luminaire Tested: **SQ4-025U-0D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P520908
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-025U-0D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
INDIRECT ONLY
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

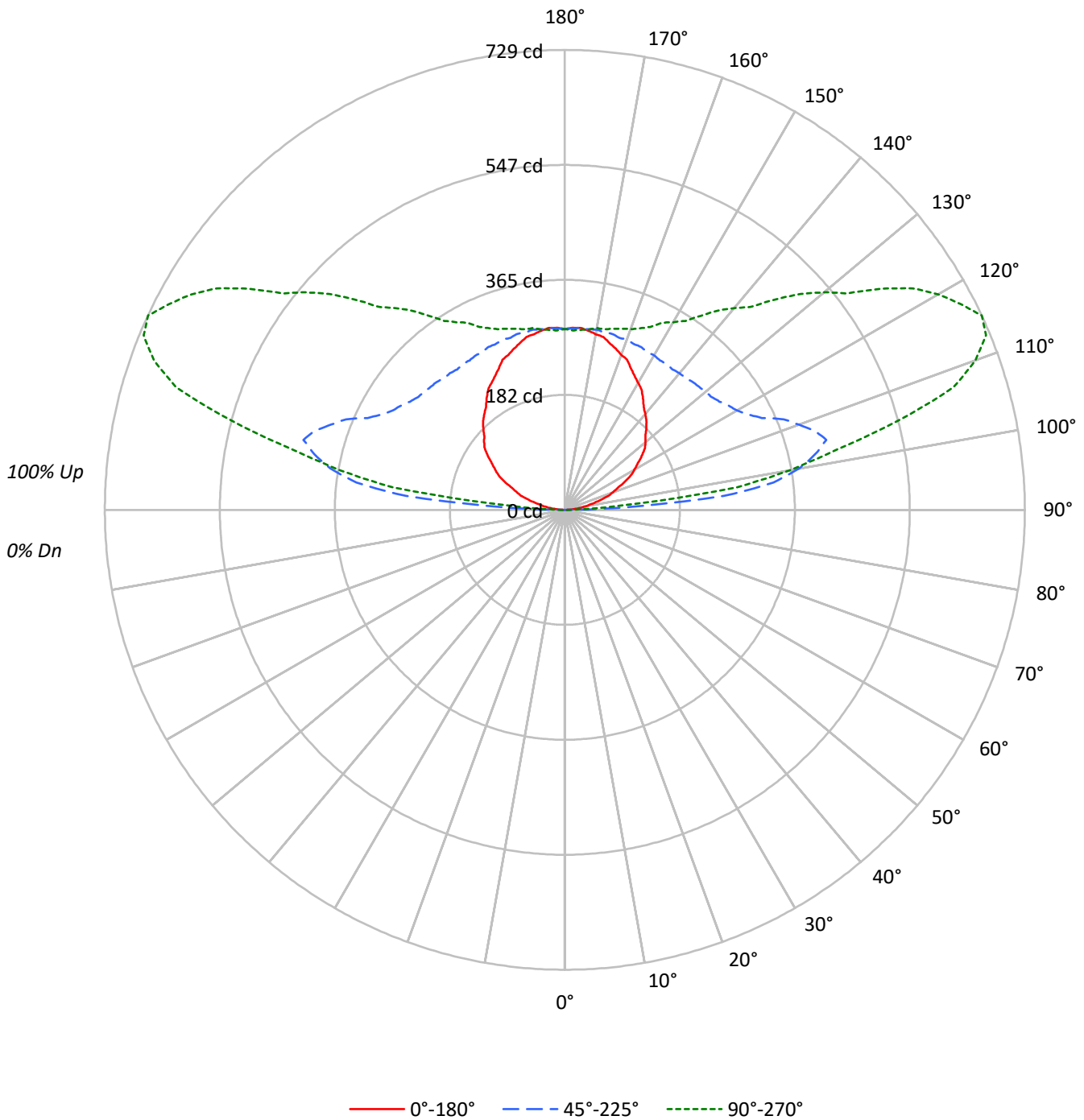
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1855.2 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14.3
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

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Luminous Intensity Polar Plot





TEST NUMBER: P520908

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | | | | | 50 | | | | 30 | | | | 10 | |
| 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° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P520908

CATALOG NUMBER: SQ4-025U-0D-93050-1D-UNV-STD-W-4 (4000K)

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° | 147.7 | 8.0 |
| 100°-110° | 357.0 | 19.2 |
| 110°-120° | 380.7 | 20.5 |
| 120°-130° | 308.4 | 16.6 |
| 130°-140° | 238.7 | 12.9 |
| 140°-150° | 182.1 | 9.8 |
| 150°-160° | 131.8 | 7.1 |
| 160°-170° | 81.2 | 4.4 |
| 170°-180° | 27.5 | 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° | 885.4 | 47.7 |
| 90°-150° | 1614.6 | 87.0 |
| 90°-180° | 1855.0 | 100.0 |
| 0°-180° | 1855.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 1 |
| 95° | 15 | 74 | 253 | 164 | 115 | 16 |
| 105° | 57 | 99 | 429 | 555 | 548 | 60 |
| 115° | 104 | 134 | 345 | 654 | 729 | 103 |
| 125° | 149 | 171 | 299 | 520 | 610 | 133 |
| 135° | 183 | 204 | 287 | 410 | 472 | 141 |
| 145° | 216 | 232 | 282 | 348 | 376 | 135 |
| 155° | 248 | 258 | 285 | 308 | 320 | 114 |
| 165° | 274 | 278 | 289 | 293 | 297 | 77 |
| 175° | 290 | 288 | 290 | 287 | 286 | 27 |
| 180° | 286 | 286 | 286 | 286 | 286 | |



TEST NUMBER: P520908

CATALOG NUMBER: SQ4-025U-0D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 4.9 | 40.0 | 94.2 | 45.8 | 31.1 |
| 95° | 14.6 | 73.9 | 253.1 | 164.5 | 115.3 |
| 97.5° | 25.9 | 81.9 | 333.3 | 321.1 | 275.6 |
| 100° | 34.6 | 86.8 | 377.5 | 398.5 | 361.1 |
| 102.5° | 42.8 | 91.3 | 406.6 | 462.9 | 440.7 |
| 105° | 57.0 | 98.6 | 429.0 | 555.1 | 548.0 |
| 107.5° | 71.0 | 107.2 | 415.8 | 629.1 | 645.8 |
| 110° | 80.7 | 114.5 | 394.4 | 661.0 | 692.4 |

TEST NUMBER: P520908

CATALOG NUMBER: SQ4-025U-0D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 90.4 | 121.9 | 375.5 | 668.7 | 722.5 |
| 115° | 104.4 | 133.5 | 344.7 | 653.5 | 728.8 |
| 117.5° | 118.2 | 145.6 | 326.6 | 618.3 | 706.6 |
| 120° | 127.4 | 153.0 | 314.9 | 590.7 | 683.3 |
| 122.5° | 137.1 | 160.8 | 307.7 | 562.5 | 653.7 |
| 125° | 148.7 | 171.2 | 299.2 | 519.7 | 610.5 |
| 127.5° | 160.1 | 181.3 | 293.2 | 483.4 | 563.1 |
| 130° | 166.9 | 187.6 | 291.3 | 458.1 | 536.4 |
| 132.5° | 173.2 | 194.9 | 288.4 | 439.9 | 506.3 |
| 135° | 182.7 | 204.0 | 287.0 | 409.8 | 471.5 |
| 137.5° | 191.6 | 213.1 | 282.8 | 389.4 | 436.0 |
| 140° | 198.4 | 218.0 | 282.8 | 374.8 | 417.5 |
| 142.5° | 205.2 | 224.8 | 280.4 | 362.0 | 398.1 |
| 145° | 216.0 | 232.1 | 281.6 | 348.3 | 375.6 |
| 147.5° | 226.1 | 241.7 | 280.8 | 332.6 | 355.1 |
| 150° | 232.4 | 246.1 | 282.8 | 325.7 | 343.5 |
| 152.5° | 239.2 | 252.4 | 282.3 | 318.3 | 334.2 |
| 155° | 247.6 | 258.3 | 285.2 | 308.5 | 319.8 |
| 157.5° | 257.7 | 266.8 | 284.6 | 304.8 | 311.4 |
| 160° | 261.5 | 269.3 | 287.0 | 299.9 | 304.6 |
| 162.5° | 267.9 | 274.6 | 286.1 | 298.4 | 301.2 |
| 165° | 273.7 | 277.8 | 288.9 | 293.2 | 297.4 |
| 167.5° | 280.8 | 283.6 | 288.1 | 292.9 | 293.0 |
| 170° | 282.8 | 284.6 | 290.1 | 289.5 | 292.5 |
| 172.5° | 286.2 | 287.5 | 288.6 | 289.9 | 288.1 |
| 175° | 289.5 | 288.3 | 289.5 | 287.0 | 286.4 |
| 177.5° | 288.9 | 288.9 | 287.9 | 286.9 | 284.5 |
| 180° | 286.4 | 286.4 | 286.4 | 286.4 | 286.4 |

(END OF REPORT)