

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: P561574

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2121.3 lumens
Efficiency: N/A
Efficacy: 102.5 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: Direct

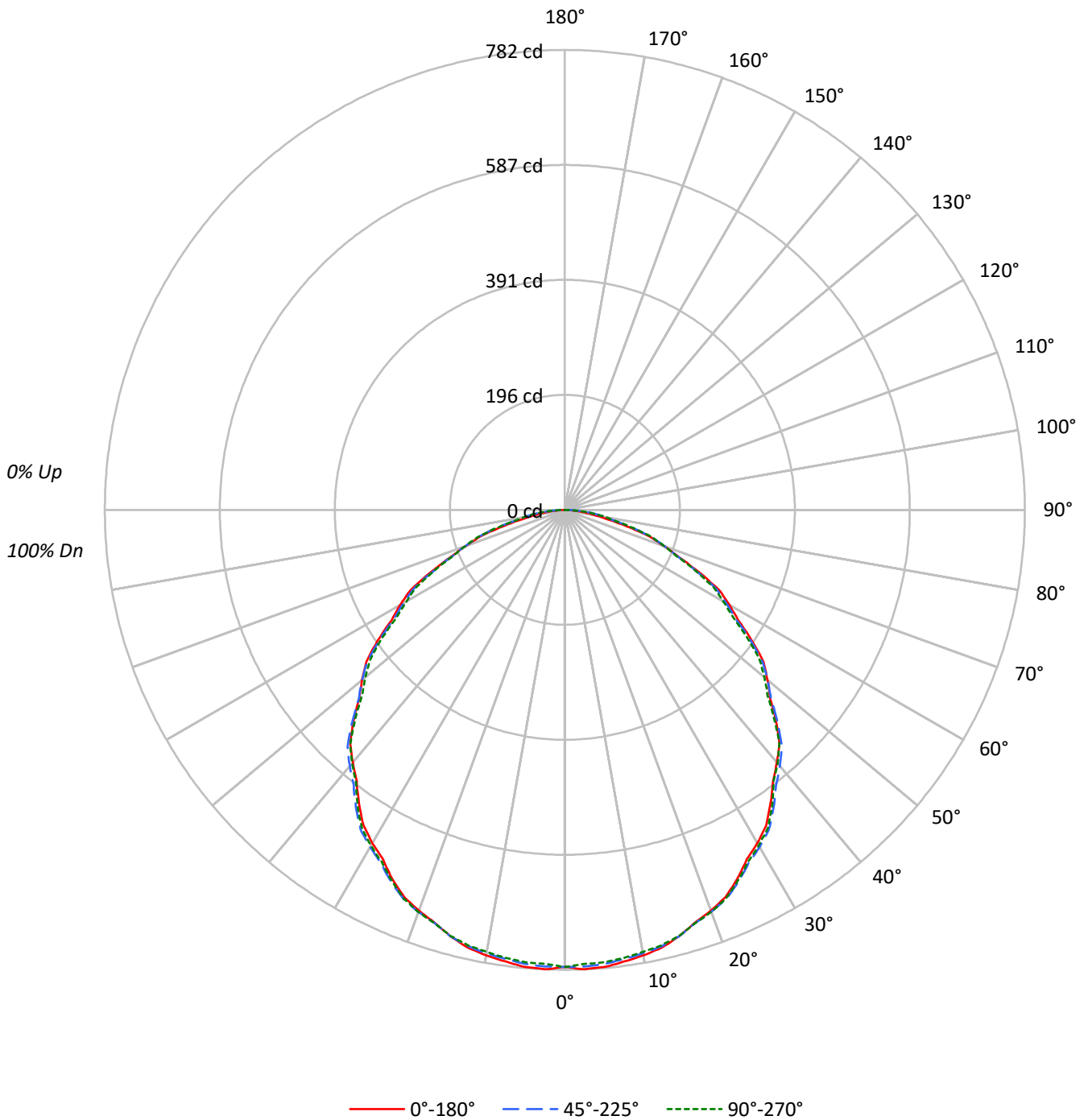
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 44 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 54 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7172 | 7172 | 7172 |
| 5° | 7225 | 7179 | 7152 |
| 10° | 7207 | 7173 | 7154 |
| 15° | 7169 | 7169 | 7163 |
| 20° | 7122 | 7144 | 7144 |
| 25° | 7056 | 7107 | 7084 |
| 30° | 6970 | 7054 | 7023 |
| 35° | 6866 | 6971 | 6922 |
| 40° | 6752 | 6848 | 6778 |
| 45° | 6630 | 6677 | 6573 |
| 50° | 6456 | 6456 | 6353 |
| 55° | 6251 | 6170 | 6077 |
| 60° | 5949 | 5829 | 5737 |
| 65° | 5499 | 5390 | 5342 |
| 70° | 4815 | 4853 | 4834 |
| 75° | 3875 | 4285 | 4310 |
| 80° | 2752 | 3634 | 3671 |
| 85° | 1673 | 3049 | 3049 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.6 | 3.5 |
| 10°-20° | 211.1 | 10.0 |
| 20°-30° | 319.7 | 15.1 |
| 30°-40° | 383.2 | 18.1 |
| 40°-50° | 390.8 | 18.4 |
| 50°-60° | 341.1 | 16.1 |
| 60°-70° | 244.2 | 11.5 |
| 70°-80° | 125.8 | 5.9 |
| 80°-90° | 31.8 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 604.3 | 28.5 |
| 0°-40° | 987.6 | 46.6 |
| 0°-60° | 1719.5 | 81.1 |
| 0°-90° | 2121.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2121.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 777 | 777 | 777 | 777 | 777 | |
| 5° | 780 | 772 | 775 | 773 | 772 | 74 |
| 15° | 751 | 744 | 751 | 751 | 750 | 212 |
| 25° | 693 | 688 | 698 | 696 | 696 | 319 |
| 35° | 610 | 608 | 619 | 615 | 615 | 381 |
| 45° | 508 | 507 | 512 | 505 | 504 | 391 |
| 55° | 389 | 384 | 384 | 378 | 378 | 346 |
| 65° | 252 | 246 | 247 | 245 | 245 | 249 |
| 75° | 109 | 114 | 120 | 121 | 121 | 117 |
| 85° | 16 | 24 | 29 | 30 | 29 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 777.3 | 777.3 | 777.3 | 777.3 | 777.3 |
| 2.5° | 781.9 | 775.1 | 777.3 | 775.5 | 772.7 |
| 5° | 780.1 | 772.4 | 775.1 | 772.9 | 772.2 |
| 7.5° | 774.5 | 766.8 | 770.4 | 768.9 | 768.2 |
| 10° | 769.3 | 761.6 | 765.7 | 764.3 | 763.6 |
| 12.5° | 762.4 | 755.3 | 760.0 | 758.5 | 758.4 |
| 15° | 750.6 | 744.3 | 750.6 | 750.6 | 749.9 |
| 17.5° | 735.8 | 730.0 | 736.8 | 737.2 | 736.8 |
| 20° | 725.4 | 719.1 | 727.6 | 726.9 | 727.6 |
| 22.5° | 712.8 | 707.6 | 716.7 | 714.8 | 715.5 |
| 25° | 693.1 | 688.1 | 698.1 | 695.9 | 695.9 |
| 27.5° | 669.7 | 666.2 | 677.1 | 674.8 | 674.8 |
| 30° | 654.2 | 650.7 | 662.1 | 659.2 | 659.2 |
| 32.5° | 636.9 | 634.5 | 645.4 | 642.0 | 642.0 |
| 35° | 609.6 | 608.2 | 618.9 | 614.6 | 614.6 |
| 37.5° | 581.4 | 580.1 | 589.9 | 584.6 | 582.9 |
| 40° | 560.6 | 559.9 | 568.6 | 562.8 | 562.8 |
| 42.5° | 539.9 | 539.2 | 546.7 | 539.8 | 539.8 |
| 45° | 508.1 | 506.7 | 511.7 | 505.2 | 503.8 |
| 47.5° | 473.4 | 472.0 | 475.1 | 468.1 | 467.4 |
| 50° | 449.8 | 448.4 | 449.8 | 443.3 | 442.6 |
| 52.5° | 425.6 | 423.1 | 423.3 | 416.8 | 416.7 |
| 55° | 388.6 | 383.7 | 383.6 | 377.8 | 377.8 |
| 57.5° | 349.5 | 343.0 | 343.6 | 338.7 | 338.0 |
| 60° | 322.4 | 315.4 | 315.9 | 311.6 | 310.9 |
| 62.5° | 295.9 | 287.8 | 289.5 | 284.6 | 284.4 |
| 65° | 251.9 | 246.3 | 246.9 | 244.7 | 244.7 |
| 67.5° | 209.6 | 204.4 | 208.1 | 206.4 | 206.3 |
| 70° | 178.5 | 175.0 | 179.9 | 179.9 | 179.2 |
| 72.5° | 149.7 | 149.6 | 155.7 | 155.8 | 156.2 |
| 75° | 108.7 | 113.6 | 120.2 | 120.9 | 120.9 |
| 77.5° | 72.5 | 81.3 | 88.5 | 88.8 | 88.7 |
| 80° | 51.8 | 61.7 | 68.4 | 69.8 | 69.1 |
| 82.5° | 35.1 | 45.5 | 51.1 | 52.5 | 51.8 |
| 85° | 15.8 | 24.3 | 28.8 | 29.5 | 28.8 |
| 87.5° | 4.6 | 9.7 | 11.5 | 11.5 | 10.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)