

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: P561935

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

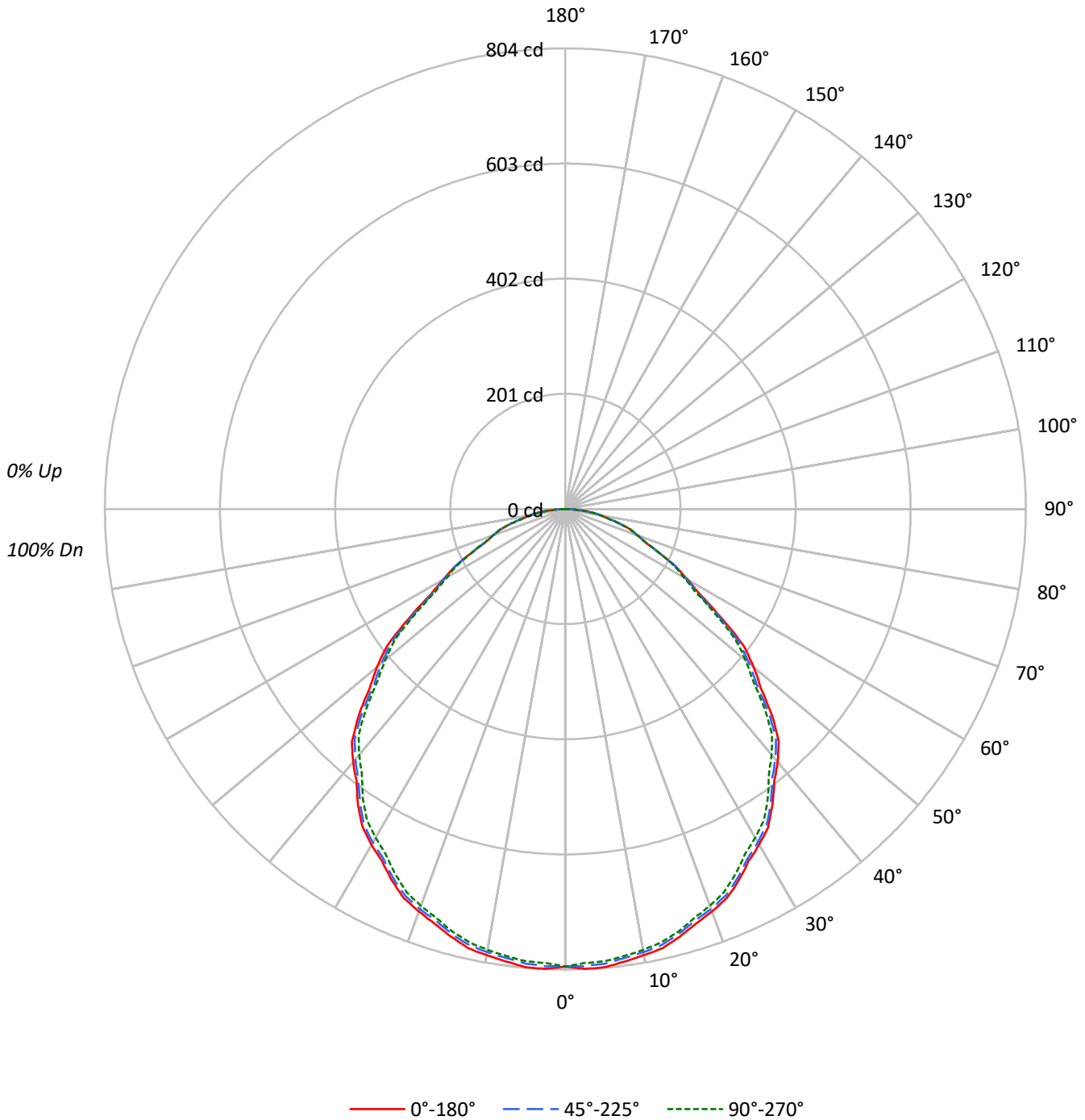
Lumens per Lamp: N/A
Luminaire Lumens: 1996.6 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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 | 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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 72 | | | | |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 68 | 78 | 71 | 66 | 75 | 70 | 65 | 72 | 68 | 64 | 62 | | | | |
| 4 | 85 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 54 | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 50 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 | | | | |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | |
| 8 | 63 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7369 | 7369 | 7369 |
| 5° | 7435 | 7378 | 7340 |
| 10° | 7411 | 7360 | 7322 |
| 15° | 7379 | 7333 | 7294 |
| 20° | 7342 | 7295 | 7241 |
| 25° | 7290 | 7241 | 7158 |
| 30° | 7211 | 7160 | 7058 |
| 35° | 7105 | 7043 | 6943 |
| 40° | 6943 | 6869 | 6745 |
| 45° | 6660 | 6543 | 6409 |
| 50° | 6162 | 6013 | 5895 |
| 55° | 5377 | 5257 | 5146 |
| 60° | 4532 | 4493 | 4405 |
| 65° | 3919 | 3934 | 3906 |
| 70° | 3601 | 3617 | 3617 |
| 75° | 3458 | 3458 | 3483 |
| 80° | 3252 | 3289 | 3252 |
| 85° | 2625 | 2911 | 2911 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.5 | 3.8 |
| 10°-20° | 216.1 | 10.8 |
| 20°-30° | 325.9 | 16.3 |
| 30°-40° | 388.3 | 19.5 |
| 40°-50° | 382.9 | 19.2 |
| 50°-60° | 292.6 | 14.7 |
| 60°-70° | 181.1 | 9.1 |
| 70°-80° | 102.8 | 5.2 |
| 80°-90° | 31.3 | 1.6 |
| 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° | 617.6 | 30.9 |
| 0°-40° | 1005.9 | 50.4 |
| 0°-60° | 1681.4 | 84.2 |
| 0°-90° | 1996.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1996.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 799 | 799 | 799 | 799 | 799 | |
| 5° | 803 | 794 | 797 | 794 | 792 | 76 |
| 15° | 772 | 764 | 768 | 765 | 764 | 218 |
| 25° | 716 | 707 | 711 | 704 | 703 | 330 |
| 35° | 631 | 623 | 625 | 617 | 616 | 394 |
| 45° | 510 | 504 | 502 | 492 | 491 | 391 |
| 55° | 334 | 329 | 327 | 321 | 320 | 300 |
| 65° | 180 | 178 | 180 | 179 | 179 | 182 |
| 75° | 97 | 97 | 97 | 98 | 98 | 102 |
| 85° | 25 | 26 | 28 | 28 | 28 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 798.7 | 798.7 | 798.7 | 798.7 | 798.7 |
| 2.5° | 803.6 | 796.6 | 798.7 | 796.9 | 793.2 |
| 5° | 802.8 | 794.1 | 796.6 | 793.8 | 792.5 |
| 7.5° | 796.6 | 788.0 | 790.6 | 787.8 | 787.0 |
| 10° | 791.1 | 783.0 | 785.6 | 782.8 | 781.5 |
| 12.5° | 785.1 | 776.5 | 779.6 | 776.2 | 774.9 |
| 15° | 772.5 | 764.5 | 767.7 | 764.9 | 763.6 |
| 17.5° | 758.8 | 750.2 | 753.4 | 750.2 | 748.5 |
| 20° | 747.8 | 739.7 | 743.0 | 738.1 | 737.5 |
| 22.5° | 735.7 | 727.6 | 730.9 | 724.4 | 724.2 |
| 25° | 716.1 | 707.4 | 711.3 | 703.7 | 703.1 |
| 27.5° | 692.9 | 684.8 | 688.1 | 680.3 | 679.5 |
| 30° | 676.9 | 668.8 | 672.1 | 663.8 | 662.5 |
| 32.5° | 658.8 | 651.2 | 653.9 | 645.7 | 644.9 |
| 35° | 630.8 | 623.4 | 625.3 | 617.1 | 616.4 |
| 37.5° | 599.0 | 592.3 | 593.4 | 584.3 | 583.6 |
| 40° | 576.5 | 569.8 | 570.3 | 560.6 | 560.0 |
| 42.5° | 551.7 | 545.0 | 544.4 | 534.8 | 534.1 |
| 45° | 510.4 | 503.7 | 501.5 | 492.5 | 491.2 |
| 47.5° | 463.4 | 456.7 | 452.5 | 445.2 | 444.3 |
| 50° | 429.3 | 422.5 | 418.9 | 412.7 | 410.7 |
| 52.5° | 392.4 | 385.7 | 382.6 | 376.9 | 374.9 |
| 55° | 334.3 | 329.0 | 326.8 | 321.2 | 319.9 |
| 57.5° | 279.2 | 275.5 | 274.9 | 269.5 | 269.0 |
| 60° | 245.6 | 243.6 | 243.5 | 238.7 | 238.7 |
| 62.5° | 217.0 | 215.5 | 216.6 | 213.4 | 212.8 |
| 65° | 179.5 | 178.2 | 180.2 | 178.9 | 178.9 |
| 67.5° | 150.0 | 150.0 | 151.2 | 150.7 | 150.7 |
| 70° | 133.5 | 133.5 | 134.1 | 134.1 | 134.1 |
| 72.5° | 118.6 | 118.1 | 119.8 | 119.8 | 119.3 |
| 75° | 97.0 | 97.0 | 97.0 | 97.7 | 97.7 |
| 77.5° | 75.5 | 75.7 | 76.2 | 76.1 | 75.5 |
| 80° | 61.2 | 61.9 | 61.9 | 61.2 | 61.2 |
| 82.5° | 46.9 | 47.6 | 47.6 | 47.5 | 46.9 |
| 85° | 24.8 | 26.1 | 27.5 | 27.5 | 27.5 |
| 87.5° | 7.2 | 9.3 | 11.0 | 11.0 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)