

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

Brand: CORELITE

Report Number: P521133

Luminaire Tested: SQ4-BB-0U-050D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521133
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-050D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

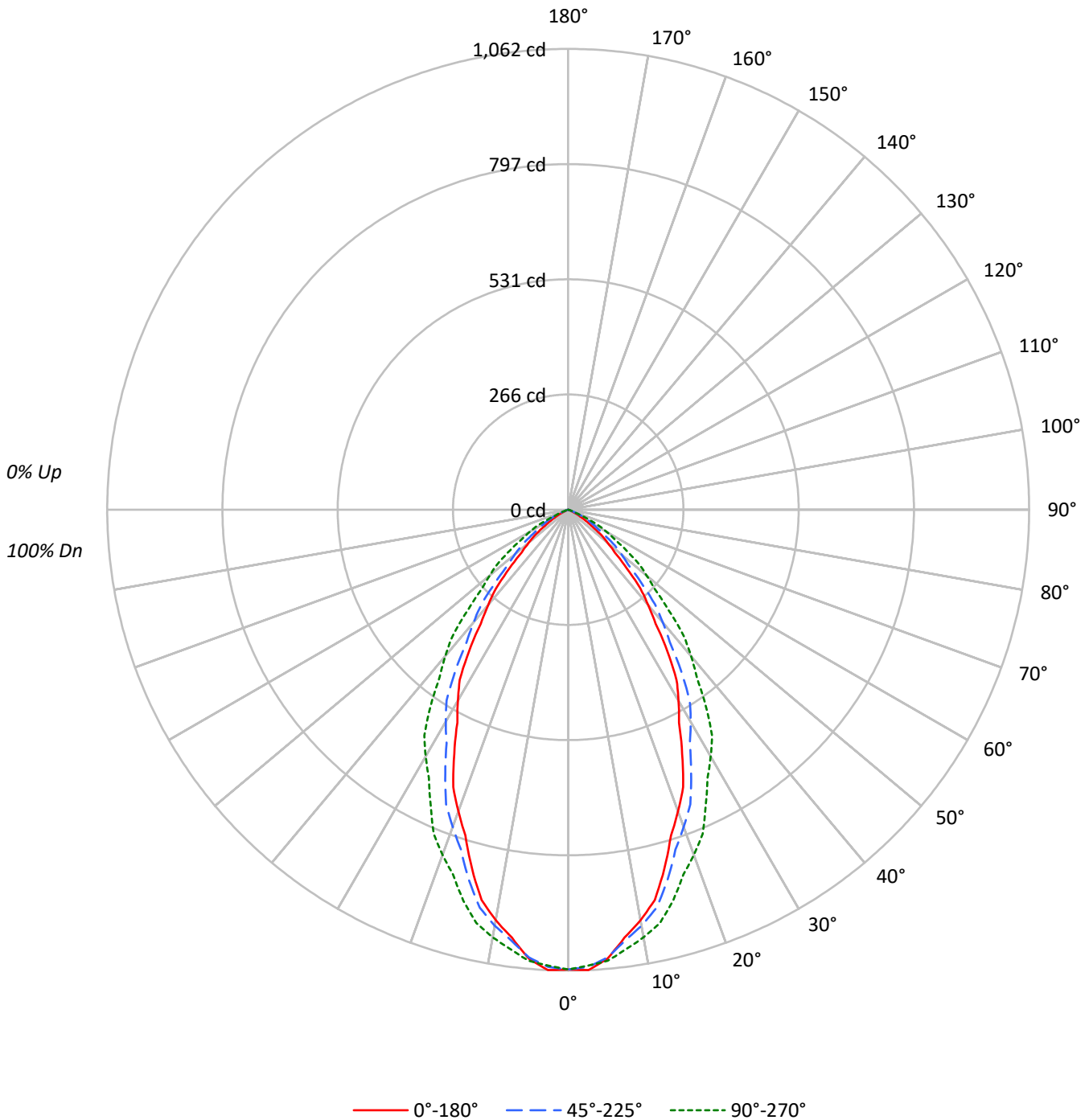
Lumens per Lamp: N/A
Luminaire Lumens: 1263.9 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P521133

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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 | | | | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 | | | | 82 |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | | | | 74 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | | 67 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | | 61 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | 51 |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | | 47 |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 44 | | | | 44 |
| 10 | 65 | 54 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 | | | | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9775 | 9775 | 9775 |
| 5° | 9618 | 9594 | 9665 |
| 10° | 8999 | 9119 | 9373 |
| 15° | 8181 | 8441 | 8911 |
| 20° | 7262 | 7640 | 8309 |
| 25° | 6324 | 6825 | 7634 |
| 30° | 5417 | 6012 | 6995 |
| 35° | 4492 | 5103 | 6224 |
| 40° | 3451 | 4080 | 5303 |
| 45° | 2495 | 3090 | 4267 |
| 50° | 1699 | 2302 | 3385 |
| 55° | 1105 | 1665 | 2630 |
| 60° | 633 | 1174 | 1901 |
| 65° | 168 | 716 | 963 |
| 70° | 84 | 221 | 278 |
| 75° | 36 | 18 | 0 |
| 80° | 27 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4267 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.7 | 7.7 |
| 10°-20° | 247.3 | 19.6 |
| 20°-30° | 309.6 | 24.5 |
| 30°-40° | 285.9 | 22.6 |
| 40°-50° | 192.1 | 15.2 |
| 50°-60° | 99.2 | 7.9 |
| 60°-70° | 31.1 | 2.5 |
| 70°-80° | 2.0 | 0.2 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 653.5 | 51.7 |
| 0°-40° | 939.4 | 74.3 |
| 0°-60° | 1230.8 | 97.4 |
| 0°-90° | 1263.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1263.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1060 | 1060 | 1060 | 1060 | 1060 | |
| 5° | 1038 | 1028 | 1036 | 1040 | 1044 | 96 |
| 15° | 856 | 854 | 884 | 913 | 933 | 239 |
| 25° | 621 | 626 | 670 | 716 | 750 | 285 |
| 35° | 399 | 409 | 453 | 506 | 553 | 247 |
| 45° | 191 | 203 | 237 | 283 | 327 | 150 |
| 55° | 69 | 80 | 104 | 133 | 164 | 64 |
| 65° | 8 | 15 | 33 | 40 | 44 | 13 |
| 75° | 1 | 1 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |

TEST NUMBER: P521133

CATALOG NUMBER: SQ4-BB-0U-050D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1059.5 | 1059.5 | 1059.5 | 1059.5 | 1059.5 |
| 2.5° | 1062.0 | 1051.9 | 1054.6 | 1054.5 | 1051.7 |
| 5° | 1038.5 | 1028.0 | 1035.9 | 1039.6 | 1043.6 |
| 7.5° | 994.6 | 986.4 | 1001.7 | 1013.1 | 1021.5 |
| 10° | 960.6 | 953.5 | 973.4 | 989.0 | 1000.5 |
| 12.5° | 921.2 | 915.8 | 939.8 | 961.2 | 975.9 |
| 15° | 856.5 | 853.5 | 883.7 | 913.3 | 932.9 |
| 17.5° | 787.2 | 787.1 | 821.6 | 858.4 | 881.9 |
| 20° | 739.6 | 741.1 | 778.1 | 818.7 | 846.3 |
| 22.5° | 692.1 | 695.6 | 735.0 | 777.4 | 808.9 |
| 25° | 621.2 | 626.3 | 670.4 | 716.3 | 749.9 |
| 27.5° | 553.2 | 560.5 | 607.0 | 654.7 | 695.6 |
| 30° | 508.5 | 517.0 | 564.3 | 614.5 | 656.6 |
| 32.5° | 464.6 | 474.7 | 520.9 | 573.9 | 616.8 |
| 35° | 398.8 | 408.8 | 453.1 | 506.4 | 552.6 |
| 37.5° | 330.8 | 340.6 | 383.9 | 436.4 | 486.2 |
| 40° | 286.5 | 297.6 | 338.8 | 389.7 | 440.3 |
| 42.5° | 246.3 | 257.4 | 296.2 | 346.2 | 394.0 |
| 45° | 191.2 | 202.7 | 236.8 | 282.9 | 327.0 |
| 47.5° | 145.5 | 158.0 | 187.9 | 229.6 | 269.8 |
| 50° | 118.4 | 130.9 | 160.4 | 197.2 | 235.8 |
| 52.5° | 96.7 | 108.8 | 135.4 | 170.1 | 205.4 |
| 55° | 68.7 | 80.2 | 103.5 | 132.9 | 163.5 |
| 57.5° | 47.5 | 57.4 | 78.3 | 102.9 | 126.8 |
| 60° | 34.3 | 43.9 | 63.6 | 83.5 | 103.0 |
| 62.5° | 22.9 | 31.6 | 50.8 | 66.1 | 79.2 |
| 65° | 7.7 | 14.7 | 32.8 | 39.6 | 44.1 |
| 67.5° | 3.9 | 4.7 | 17.2 | 18.2 | 19.7 |
| 70° | 3.1 | 3.1 | 8.2 | 8.7 | 10.3 |
| 72.5° | 2.3 | 2.3 | 3.3 | 4.2 | 4.5 |
| 75° | 1.0 | 1.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 0.5 | 0.5 | 0.4 | 0.0 | 0.0 |
| 80° | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.1 | 0.1 | 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 |

(END OF REPORT)