

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: P521177

Luminaire Tested: SQ4-BB-0U-125D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521177
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-125D-92765-1D-UNV-STD-W-4_5700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.9 lumens
Efficiency: N/A
Efficacy: 61.6 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

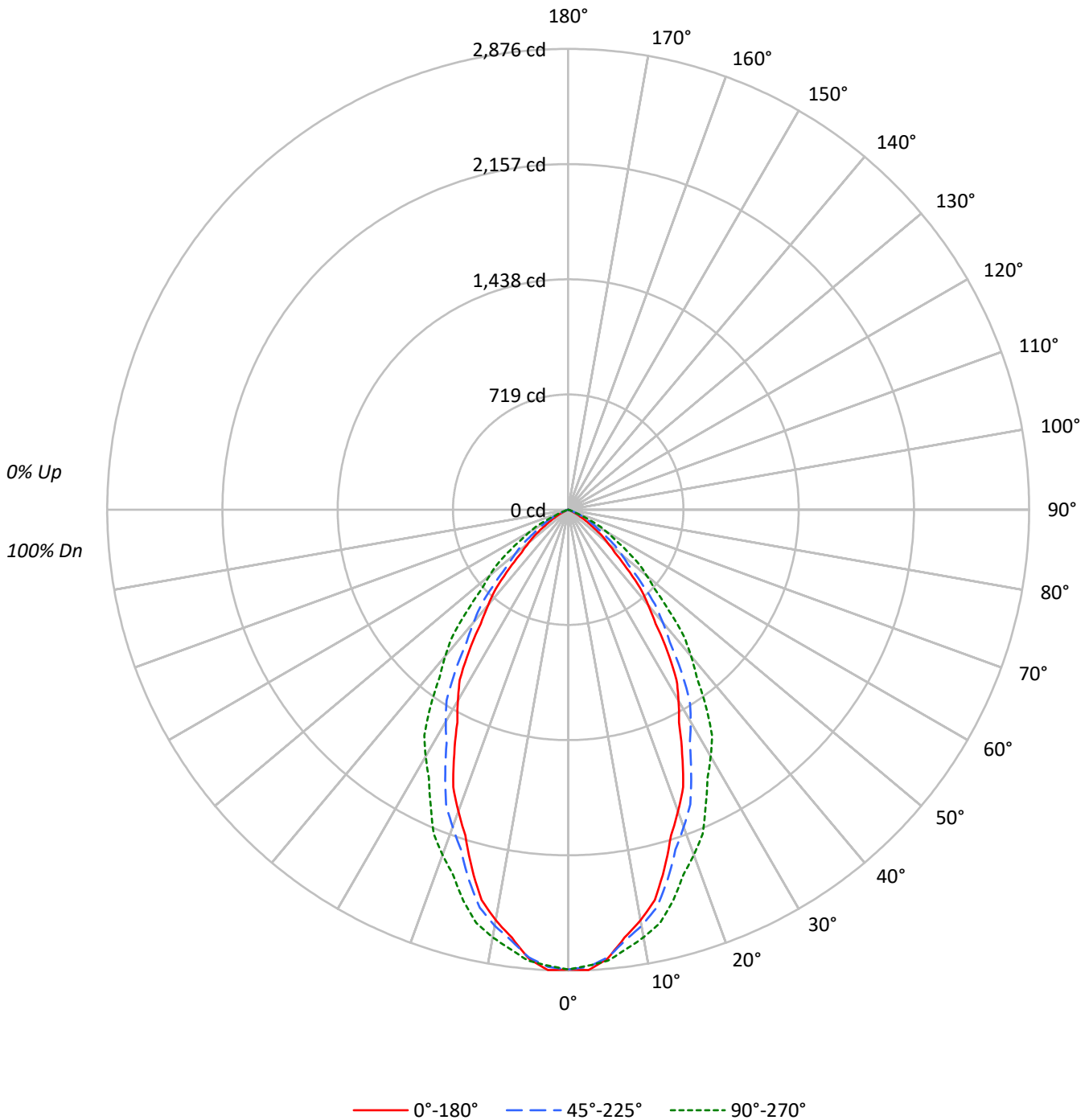
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 26474 | 26474 | 26474 |
| 5° | 26048 | 25983 | 26176 |
| 10° | 24372 | 24697 | 25386 |
| 15° | 22157 | 22859 | 24132 |
| 20° | 19668 | 20690 | 22503 |
| 25° | 17128 | 18484 | 20675 |
| 30° | 14671 | 16283 | 18945 |
| 35° | 12164 | 13822 | 16855 |
| 40° | 9346 | 11052 | 14362 |
| 45° | 6756 | 8368 | 11556 |
| 50° | 4603 | 6237 | 9166 |
| 55° | 2992 | 4510 | 7123 |
| 60° | 1716 | 3176 | 5148 |
| 65° | 454 | 1939 | 2607 |
| 70° | 224 | 599 | 750 |
| 75° | 100 | 50 | 0 |
| 80° | 74 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11556 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 261.9 | 7.7 |
| 10°-20° | 669.7 | 19.6 |
| 20°-30° | 838.4 | 24.5 |
| 30°-40° | 774.4 | 22.6 |
| 40°-50° | 520.3 | 15.2 |
| 50°-60° | 268.8 | 7.9 |
| 60°-70° | 84.2 | 2.5 |
| 70°-80° | 5.3 | 0.2 |
| 80°-90° | 0.1 | 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° | 1769.9 | 51.7 |
| 0°-40° | 2544.3 | 74.3 |
| 0°-60° | 3333.3 | 97.4 |
| 0°-90° | 3422.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3422.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2869 | 2869 | 2869 | 2869 | 2869 | |
| 5° | 2812 | 2784 | 2806 | 2816 | 2826 | 261 |
| 15° | 2320 | 2312 | 2393 | 2474 | 2526 | 646 |
| 25° | 1682 | 1696 | 1816 | 1940 | 2031 | 771 |
| 35° | 1080 | 1107 | 1227 | 1372 | 1496 | 669 |
| 45° | 518 | 549 | 641 | 766 | 886 | 407 |
| 55° | 186 | 217 | 280 | 360 | 443 | 174 |
| 65° | 21 | 40 | 89 | 107 | 119 | 35 |
| 75° | 3 | 3 | 1 | 0 | 0 | 4 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |

TEST NUMBER: P521177

CATALOG NUMBER: SQ4-BB-0U-125D-92765-1D-UNV-STD-W-4_5700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2869.4 | 2869.4 | 2869.4 | 2869.4 | 2869.4 |
| 2.5° | 2876.0 | 2848.9 | 2856.1 | 2855.9 | 2848.3 |
| 5° | 2812.5 | 2784.0 | 2805.5 | 2815.5 | 2826.3 |
| 7.5° | 2693.6 | 2671.4 | 2712.8 | 2743.8 | 2766.4 |
| 10° | 2601.5 | 2582.5 | 2636.2 | 2678.5 | 2709.7 |
| 12.5° | 2494.8 | 2480.2 | 2545.1 | 2603.2 | 2643.1 |
| 15° | 2319.7 | 2311.5 | 2393.2 | 2473.6 | 2526.5 |
| 17.5° | 2132.0 | 2131.7 | 2225.0 | 2324.7 | 2388.5 |
| 20° | 2003.2 | 2007.2 | 2107.3 | 2217.2 | 2291.9 |
| 22.5° | 1874.3 | 1883.8 | 1990.7 | 2105.3 | 2190.8 |
| 25° | 1682.5 | 1696.1 | 1815.7 | 1940.0 | 2030.9 |
| 27.5° | 1498.1 | 1517.9 | 1643.9 | 1773.0 | 1883.8 |
| 30° | 1377.1 | 1400.2 | 1528.4 | 1664.2 | 1778.3 |
| 32.5° | 1258.3 | 1285.7 | 1410.7 | 1554.4 | 1670.5 |
| 35° | 1080.0 | 1107.2 | 1227.2 | 1371.6 | 1496.5 |
| 37.5° | 895.9 | 922.5 | 1039.8 | 1181.9 | 1316.8 |
| 40° | 776.0 | 805.9 | 917.6 | 1055.4 | 1192.5 |
| 42.5° | 667.2 | 697.0 | 802.1 | 937.5 | 1067.0 |
| 45° | 517.8 | 549.0 | 641.3 | 766.2 | 885.7 |
| 47.5° | 394.0 | 427.9 | 508.9 | 621.9 | 730.7 |
| 50° | 320.7 | 354.6 | 434.5 | 534.0 | 638.6 |
| 52.5° | 261.8 | 294.7 | 366.8 | 460.6 | 556.4 |
| 55° | 186.0 | 217.2 | 280.4 | 360.0 | 442.8 |
| 57.5° | 128.5 | 155.4 | 212.1 | 278.6 | 343.4 |
| 60° | 93.0 | 118.8 | 172.1 | 226.1 | 279.0 |
| 62.5° | 61.9 | 85.5 | 137.7 | 179.1 | 214.6 |
| 65° | 20.8 | 39.8 | 88.8 | 107.2 | 119.4 |
| 67.5° | 10.6 | 12.7 | 46.6 | 49.2 | 53.3 |
| 70° | 8.3 | 8.3 | 22.2 | 23.7 | 27.8 |
| 72.5° | 6.1 | 6.1 | 8.9 | 11.4 | 12.2 |
| 75° | 2.8 | 2.8 | 1.4 | 0.0 | 0.0 |
| 77.5° | 1.4 | 1.4 | 1.1 | 0.0 | 0.0 |
| 80° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.3 | 0.3 | 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)