

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: P519328

Luminaire Tested: **SQ4-WB-0U-100D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

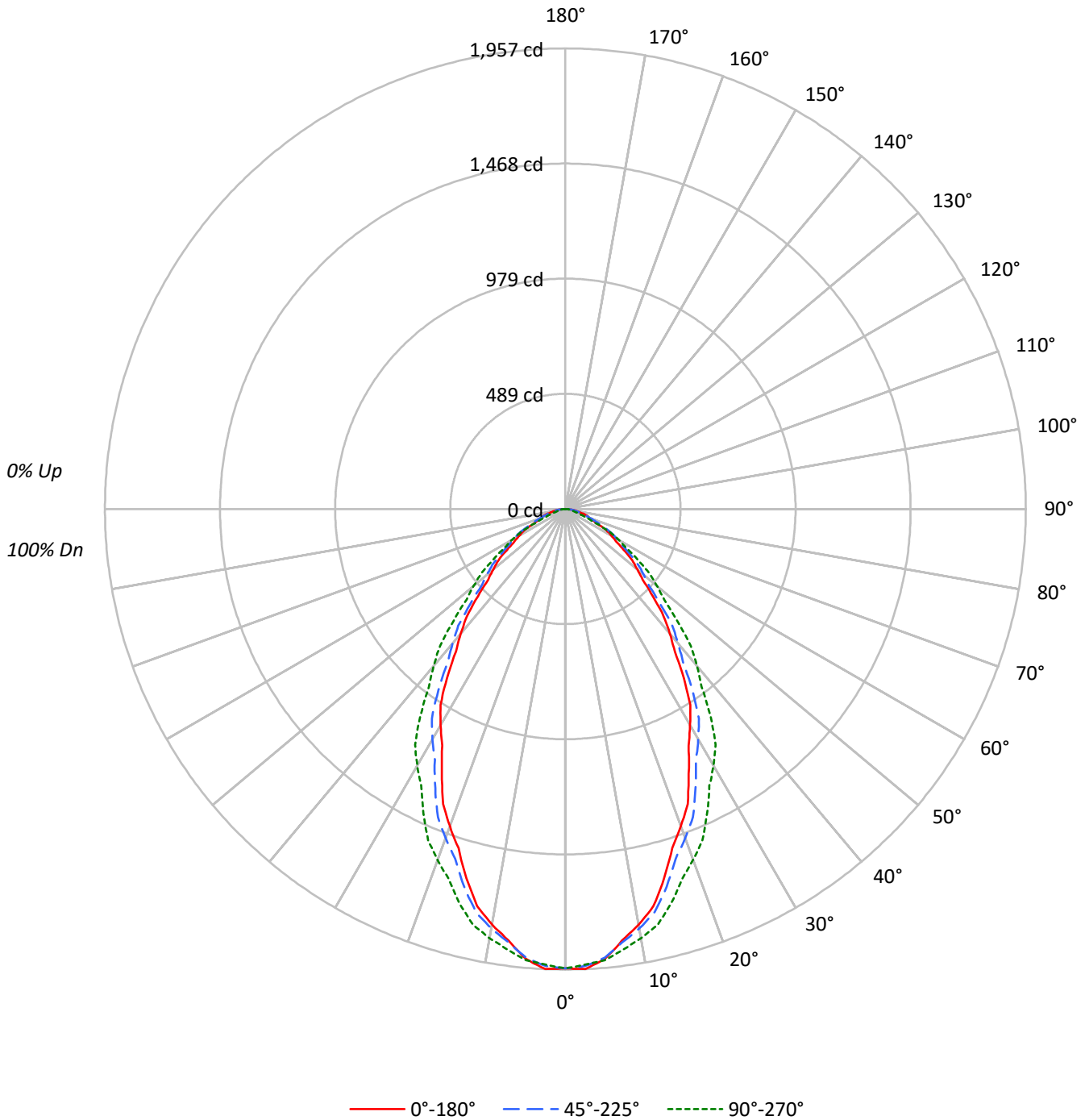
Lumens per Lamp: N/A
Luminaire Lumens: 2844.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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: P519328

CATALOG NUMBER: SQ4-WB-OU-100D-940-1D-UNV-STD-W-4

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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 53 | 48 | 43 | 52 | 47 | 43 | 41 |
| 9 | 64 | 53 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 |
| 10 | 61 | 49 | 42 | 37 | 60 | 48 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18010 | 18010 | 18010 |
| 5° | 17785 | 17722 | 17825 |
| 10° | 16803 | 16956 | 17349 |
| 15° | 15512 | 15872 | 16584 |
| 20° | 14086 | 14617 | 15584 |
| 25° | 12634 | 13324 | 14518 |
| 30° | 11297 | 12036 | 13414 |
| 35° | 9879 | 10593 | 12107 |
| 40° | 8315 | 8975 | 10481 |
| 45° | 6862 | 7454 | 8751 |
| 50° | 5728 | 6245 | 7290 |
| 55° | 4864 | 5360 | 6021 |
| 60° | 4157 | 4646 | 4805 |
| 65° | 3310 | 3908 | 3104 |
| 70° | 2935 | 3051 | 1894 |
| 75° | 2716 | 2474 | 1159 |
| 80° | 2502 | 2274 | 999 |
| 85° | 2265 | 2085 | 815 |



TEST NUMBER: P519328

CATALOG NUMBER: SQ4-WB-OU-100D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.0 | 6.3 |
| 10°-20° | 465.7 | 16.4 |
| 20°-30° | 603.2 | 21.2 |
| 30°-40° | 590.7 | 20.8 |
| 40°-50° | 452.2 | 15.9 |
| 50°-60° | 301.3 | 10.6 |
| 60°-70° | 164.4 | 5.8 |
| 70°-80° | 68.5 | 2.4 |
| 80°-90° | 19.4 | 0.7 |
| 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° | 1248.0 | 43.9 |
| 0°-40° | 1838.7 | 64.6 |
| 0°-60° | 2592.2 | 91.1 |
| 0°-90° | 2844.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2844.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1952 | 1952 | 1952 | 1952 | 1952 | |
| 5° | 1920 | 1901 | 1914 | 1918 | 1925 | 179 |
| 15° | 1624 | 1618 | 1662 | 1707 | 1736 | 454 |
| 25° | 1241 | 1244 | 1309 | 1366 | 1426 | 571 |
| 35° | 877 | 881 | 940 | 1004 | 1075 | 545 |
| 45° | 526 | 536 | 571 | 615 | 671 | 410 |
| 55° | 302 | 315 | 333 | 346 | 374 | 274 |
| 65° | 152 | 164 | 179 | 156 | 142 | 158 |
| 75° | 76 | 76 | 69 | 48 | 32 | 81 |
| 85° | 21 | 21 | 20 | 13 | 8 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P519328

CATALOG NUMBER: SQ4-WB-OU-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1952.0 | 1952.0 | 1952.0 | 1952.0 | 1952.0 |
| 2.5° | 1956.8 | 1939.4 | 1943.8 | 1943.7 | 1938.3 |
| 5° | 1920.3 | 1901.1 | 1913.5 | 1917.9 | 1924.6 |
| 7.5° | 1849.1 | 1834.5 | 1857.1 | 1873.9 | 1887.5 |
| 10° | 1793.6 | 1781.0 | 1809.9 | 1834.2 | 1851.8 |
| 12.5° | 1729.2 | 1718.6 | 1754.4 | 1787.1 | 1810.0 |
| 15° | 1624.0 | 1618.1 | 1661.7 | 1706.9 | 1736.2 |
| 17.5° | 1511.4 | 1508.6 | 1558.5 | 1611.3 | 1648.8 |
| 20° | 1434.7 | 1433.9 | 1488.7 | 1543.6 | 1587.2 |
| 22.5° | 1357.3 | 1359.1 | 1416.7 | 1473.9 | 1523.4 |
| 25° | 1241.1 | 1244.5 | 1308.8 | 1365.8 | 1426.1 |
| 27.5° | 1133.7 | 1135.2 | 1201.7 | 1261.9 | 1326.3 |
| 30° | 1060.4 | 1064.6 | 1129.8 | 1192.1 | 1259.1 |
| 32.5° | 987.1 | 991.9 | 1055.8 | 1120.2 | 1188.5 |
| 35° | 877.1 | 881.3 | 940.5 | 1003.8 | 1074.9 |
| 37.5° | 763.7 | 769.4 | 821.9 | 881.8 | 951.8 |
| 40° | 690.4 | 698.7 | 745.2 | 801.6 | 870.2 |
| 42.5° | 619.8 | 630.2 | 673.2 | 726.7 | 788.7 |
| 45° | 525.9 | 536.0 | 571.3 | 614.6 | 670.7 |
| 47.5° | 445.1 | 456.6 | 483.8 | 521.0 | 568.9 |
| 50° | 399.1 | 410.0 | 435.1 | 462.7 | 507.9 |
| 52.5° | 358.7 | 369.6 | 391.9 | 413.2 | 451.7 |
| 55° | 302.4 | 314.9 | 333.2 | 345.8 | 374.3 |
| 57.5° | 256.1 | 268.2 | 282.7 | 288.4 | 305.6 |
| 60° | 225.3 | 238.7 | 251.8 | 251.2 | 260.4 |
| 62.5° | 197.2 | 208.6 | 221.7 | 212.6 | 213.1 |
| 65° | 151.6 | 164.2 | 179.0 | 156.4 | 142.2 |
| 67.5° | 122.5 | 125.2 | 140.5 | 109.1 | 92.2 |
| 70° | 108.8 | 108.8 | 113.1 | 84.5 | 70.2 |
| 72.5° | 95.8 | 95.8 | 91.8 | 68.7 | 53.8 |
| 75° | 76.2 | 76.2 | 69.4 | 47.6 | 32.5 |
| 77.5° | 58.8 | 58.1 | 53.1 | 35.5 | 23.6 |
| 80° | 47.1 | 47.1 | 42.8 | 28.1 | 18.8 |
| 82.5° | 36.8 | 36.8 | 33.2 | 21.9 | 14.0 |
| 85° | 21.4 | 21.4 | 19.7 | 12.7 | 7.7 |
| 87.5° | 7.5 | 7.5 | 6.9 | 4.1 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)