

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: P519346

Luminaire Tested: **SQ4-WB-0U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519346  
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-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

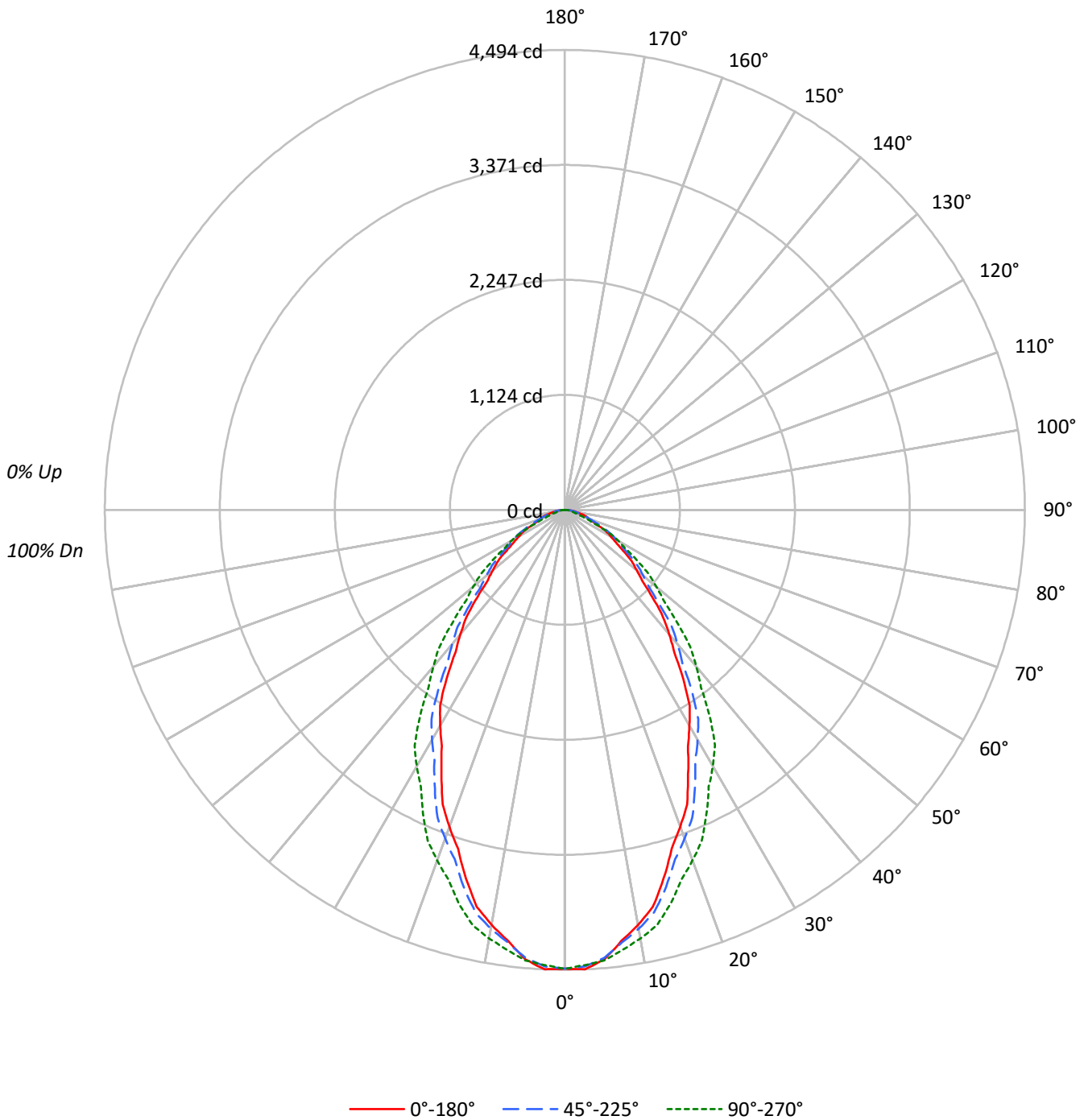
Lumens per Lamp: N/A  
Luminaire Lumens: 6533.1 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.1  
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: P519346

CATALOG NUMBER: SQ4-WB-OU-125D-930-1D-UNV-STD-W-8

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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20682 | 20682 | 20682 |
| 5°  | 20424 | 20351 | 20470 |
| 10° | 19296 | 19472 | 19923 |
| 15° | 17813 | 18227 | 19044 |
| 20° | 16176 | 16785 | 17895 |
| 25° | 14509 | 15301 | 16672 |
| 30° | 12973 | 13822 | 15404 |
| 35° | 11345 | 12164 | 13904 |
| 40° | 9548  | 10307 | 12036 |
| 45° | 7880  | 8561  | 10049 |
| 50° | 6579  | 7172  | 8372  |
| 55° | 5585  | 6155  | 6914  |
| 60° | 4774  | 5336  | 5517  |
| 65° | 3801  | 4488  | 3565  |
| 70° | 3369  | 3503  | 2176  |
| 75° | 3121  | 2839  | 1333  |
| 80° | 2874  | 2614  | 1150  |
| 85° | 2604  | 2392  | 937   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 411.2  | 6.3       |
| 10°-20°   | 1069.6 | 16.4      |
| 20°-30°   | 1385.5 | 21.2      |
| 30°-40°   | 1356.7 | 20.8      |
| 40°-50°   | 1038.5 | 15.9      |
| 50°-60°   | 692.0  | 10.6      |
| 60°-70°   | 377.6  | 5.8       |
| 70°-80°   | 157.3  | 2.4       |
| 80°-90°   | 44.5   | 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°    | 2866.3 | 43.9      |
| 0°-40°    | 4223.1 | 64.6      |
| 0°-60°    | 5953.6 | 91.1      |
| 0°-90°    | 6533.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6533.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4483 | 4483  | 4483 | 4483  | 4483 |      |
| 5°  | 4411 | 4366  | 4395 | 4405  | 4420 | 410  |
| 15° | 3730 | 3716  | 3816 | 3920  | 3988 | 1042 |
| 25° | 2850 | 2858  | 3006 | 3137  | 3276 | 1311 |
| 35° | 2014 | 2024  | 2160 | 2305  | 2469 | 1252 |
| 45° | 1208 | 1231  | 1312 | 1412  | 1540 | 942  |
| 55° | 694  | 723   | 765  | 794   | 860  | 630  |
| 65° | 348  | 377   | 411  | 359   | 327  | 362  |
| 75° | 175  | 175   | 159  | 109   | 75   | 187  |
| 85° | 49   | 49    | 45   | 29    | 18   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4483.4 | 4483.4 | 4483.4 | 4483.4 | 4483.4 |
| 2.5°  | 4494.4 | 4454.4 | 4464.5 | 4464.2 | 4451.9 |
| 5°    | 4410.6 | 4366.3 | 4394.8 | 4405.0 | 4420.4 |
| 7.5°  | 4246.9 | 4213.4 | 4265.4 | 4303.9 | 4335.0 |
| 10°   | 4119.4 | 4090.6 | 4156.8 | 4212.8 | 4253.2 |
| 12.5° | 3971.5 | 3947.2 | 4029.3 | 4104.5 | 4157.2 |
| 15°   | 3729.9 | 3716.4 | 3816.5 | 3920.3 | 3987.6 |
| 17.5° | 3471.4 | 3464.9 | 3579.6 | 3700.8 | 3787.0 |
| 20°   | 3295.1 | 3293.2 | 3419.1 | 3545.3 | 3645.3 |
| 22.5° | 3117.3 | 3121.5 | 3253.8 | 3385.1 | 3498.9 |
| 25°   | 2850.5 | 2858.2 | 3006.0 | 3137.0 | 3275.5 |
| 27.5° | 2603.8 | 2607.3 | 2760.0 | 2898.4 | 3046.1 |
| 30°   | 2435.5 | 2445.1 | 2594.8 | 2738.0 | 2891.9 |
| 32.5° | 2267.1 | 2278.2 | 2424.8 | 2572.8 | 2729.8 |
| 35°   | 2014.5 | 2024.1 | 2160.0 | 2305.4 | 2468.9 |
| 37.5° | 1754.0 | 1767.1 | 1887.8 | 2025.2 | 2186.0 |
| 40°   | 1585.6 | 1604.8 | 1711.5 | 1841.0 | 1998.7 |
| 42.5° | 1423.5 | 1447.4 | 1546.3 | 1669.1 | 1811.4 |
| 45°   | 1207.9 | 1231.0 | 1312.2 | 1411.5 | 1540.4 |
| 47.5° | 1022.2 | 1048.7 | 1111.1 | 1196.6 | 1306.6 |
| 50°   | 916.7  | 941.7  | 999.4  | 1062.7 | 1166.6 |
| 52.5° | 823.9  | 848.9  | 900.2  | 949.0  | 1037.5 |
| 55°   | 694.4  | 723.3  | 765.3  | 794.3  | 859.7  |
| 57.5° | 588.2  | 615.9  | 649.2  | 662.3  | 701.9  |
| 60°   | 517.4  | 548.2  | 578.4  | 576.9  | 598.0  |
| 62.5° | 452.9  | 479.0  | 509.1  | 488.3  | 489.5  |
| 65°   | 348.2  | 377.1  | 411.2  | 359.3  | 326.6  |
| 67.5° | 281.3  | 287.5  | 322.6  | 250.5  | 211.7  |
| 70°   | 249.8  | 249.8  | 259.7  | 194.0  | 161.3  |
| 72.5° | 219.9  | 219.9  | 210.9  | 157.8  | 123.5  |
| 75°   | 175.1  | 175.1  | 159.3  | 109.4  | 74.8   |
| 77.5° | 135.0  | 133.4  | 122.0  | 81.6   | 54.3   |
| 80°   | 108.2  | 108.2  | 98.4   | 64.4   | 43.3   |
| 82.5° | 84.6   | 84.6   | 76.3   | 50.3   | 32.3   |
| 85°   | 49.2   | 49.2   | 45.2   | 29.2   | 17.7   |
| 87.5° | 17.3   | 17.3   | 15.7   | 9.4    | 7.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)