

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: P564897

Luminaire Tested: **SQ4-PW1-0U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564897
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

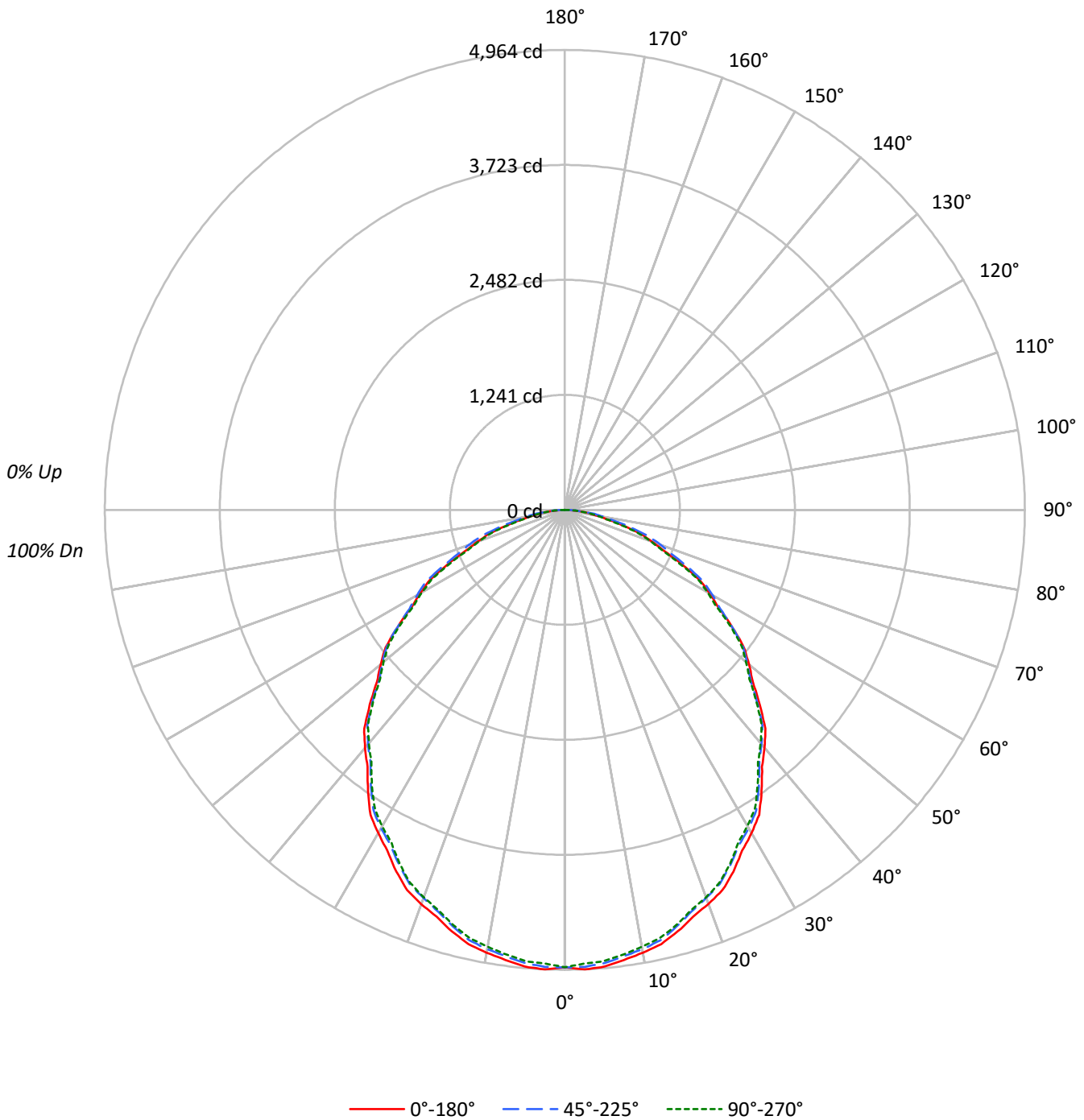
Lumens per Lamp: N/A
Luminaire Lumens: 12560.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 | 60 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15182 | 15182 | 15182 |
| 5° | 15280 | 15159 | 15092 |
| 10° | 15158 | 15036 | 14954 |
| 15° | 14998 | 14832 | 14776 |
| 20° | 14818 | 14591 | 14562 |
| 25° | 14612 | 14346 | 14302 |
| 30° | 14303 | 14086 | 13994 |
| 35° | 13896 | 13700 | 13619 |
| 40° | 13463 | 13253 | 13201 |
| 45° | 12939 | 12769 | 12712 |
| 50° | 12403 | 12298 | 12215 |
| 55° | 11824 | 11824 | 11637 |
| 60° | 11102 | 11316 | 10915 |
| 65° | 10160 | 10667 | 9907 |
| 70° | 8956 | 9816 | 8721 |
| 75° | 7649 | 8786 | 7442 |
| 80° | 5931 | 7394 | 6009 |
| 85° | 3836 | 5678 | 5064 |



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CATALOG NUMBER: SQ4-PW1-0U-125D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 464.9 | 3.7 |
| 10°-20° | 1312.4 | 10.4 |
| 20°-30° | 1946.8 | 15.5 |
| 30°-40° | 2277.9 | 18.1 |
| 40°-50° | 2267.7 | 18.1 |
| 50°-60° | 1958.3 | 15.6 |
| 60°-70° | 1409.6 | 11.2 |
| 70°-80° | 739.2 | 5.9 |
| 80°-90° | 183.3 | 1.5 |
| 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° | 3724.1 | 29.6 |
| 0°-40° | 6002.0 | 47.8 |
| 0°-60° | 10228.0 | 81.4 |
| 0°-90° | 12560.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12560.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4937 | 4937 | 4937 | 4937 | 4937 | |
| 5° | 4950 | 4894 | 4910 | 4897 | 4889 | 469 |
| 15° | 4710 | 4651 | 4658 | 4649 | 4641 | 1328 |
| 25° | 4306 | 4234 | 4228 | 4202 | 4215 | 1980 |
| 35° | 3701 | 3650 | 3649 | 3615 | 3627 | 2314 |
| 45° | 2975 | 2950 | 2936 | 2927 | 2923 | 2295 |
| 55° | 2205 | 2201 | 2205 | 2175 | 2170 | 1968 |
| 65° | 1396 | 1439 | 1466 | 1408 | 1361 | 1384 |
| 75° | 644 | 703 | 739 | 690 | 626 | 690 |
| 85° | 109 | 143 | 161 | 152 | 144 | 147 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P564897

CATALOG NUMBER: SQ4-PW1-0U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4936.6 | 4936.6 | 4936.6 | 4936.6 | 4936.6 |
| 2.5° | 4964.5 | 4923.6 | 4936.6 | 4925.6 | 4901.8 |
| 5° | 4949.7 | 4894.4 | 4910.5 | 4897.3 | 4888.8 |
| 7.5° | 4899.2 | 4848.2 | 4860.1 | 4846.0 | 4840.9 |
| 10° | 4854.0 | 4803.0 | 4814.8 | 4797.3 | 4788.7 |
| 12.5° | 4801.8 | 4747.4 | 4759.2 | 4741.7 | 4736.6 |
| 15° | 4710.5 | 4650.9 | 4658.3 | 4649.4 | 4640.9 |
| 17.5° | 4604.3 | 4543.9 | 4545.2 | 4531.2 | 4529.5 |
| 20° | 4527.8 | 4464.0 | 4458.2 | 4441.0 | 4449.5 |
| 22.5° | 4444.3 | 4377.1 | 4371.2 | 4347.1 | 4359.0 |
| 25° | 4306.0 | 4233.7 | 4227.7 | 4201.9 | 4214.6 |
| 27.5° | 4145.9 | 4074.4 | 4074.6 | 4038.3 | 4051.9 |
| 30° | 4027.6 | 3959.5 | 3966.7 | 3923.6 | 3940.6 |
| 32.5° | 3902.3 | 3841.1 | 3844.9 | 3801.8 | 3818.8 |
| 35° | 3701.4 | 3650.3 | 3649.2 | 3614.7 | 3627.4 |
| 37.5° | 3496.1 | 3451.0 | 3443.9 | 3424.0 | 3427.4 |
| 40° | 3353.4 | 3315.2 | 3301.2 | 3288.2 | 3288.2 |
| 42.5° | 3203.8 | 3168.9 | 3155.1 | 3145.4 | 3142.0 |
| 45° | 2975.0 | 2949.5 | 2935.9 | 2927.1 | 2922.8 |
| 47.5° | 2748.9 | 2725.0 | 2713.2 | 2707.0 | 2702.7 |
| 50° | 2592.3 | 2575.3 | 2570.5 | 2557.4 | 2553.1 |
| 52.5° | 2435.7 | 2425.5 | 2420.9 | 2404.3 | 2400.0 |
| 55° | 2205.2 | 2200.9 | 2205.2 | 2174.6 | 2170.4 |
| 57.5° | 1965.1 | 1971.9 | 1986.0 | 1944.8 | 1934.6 |
| 60° | 1805.0 | 1822.0 | 1839.8 | 1791.6 | 1774.6 |
| 62.5° | 1641.5 | 1668.7 | 1693.7 | 1638.3 | 1614.5 |
| 65° | 1396.2 | 1438.7 | 1465.8 | 1408.2 | 1361.4 |
| 67.5° | 1159.6 | 1212.3 | 1244.8 | 1182.7 | 1130.0 |
| 70° | 996.0 | 1055.6 | 1091.7 | 1029.5 | 969.9 |
| 72.5° | 853.4 | 919.7 | 949.0 | 890.3 | 830.7 |
| 75° | 643.7 | 703.3 | 739.4 | 690.1 | 626.3 |
| 77.5° | 456.7 | 512.8 | 542.8 | 499.9 | 447.1 |
| 80° | 334.9 | 394.4 | 417.5 | 381.8 | 339.3 |
| 82.5° | 237.5 | 286.8 | 302.7 | 281.2 | 252.3 |
| 85° | 108.7 | 142.8 | 160.9 | 152.0 | 143.5 |
| 87.5° | 27.8 | 51.7 | 66.1 | 66.2 | 69.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)