

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: P853614

Luminaire Tested: SQ2-BBN-0U-100D-930-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P853614  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-130-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-BBN-0U-100D-930-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

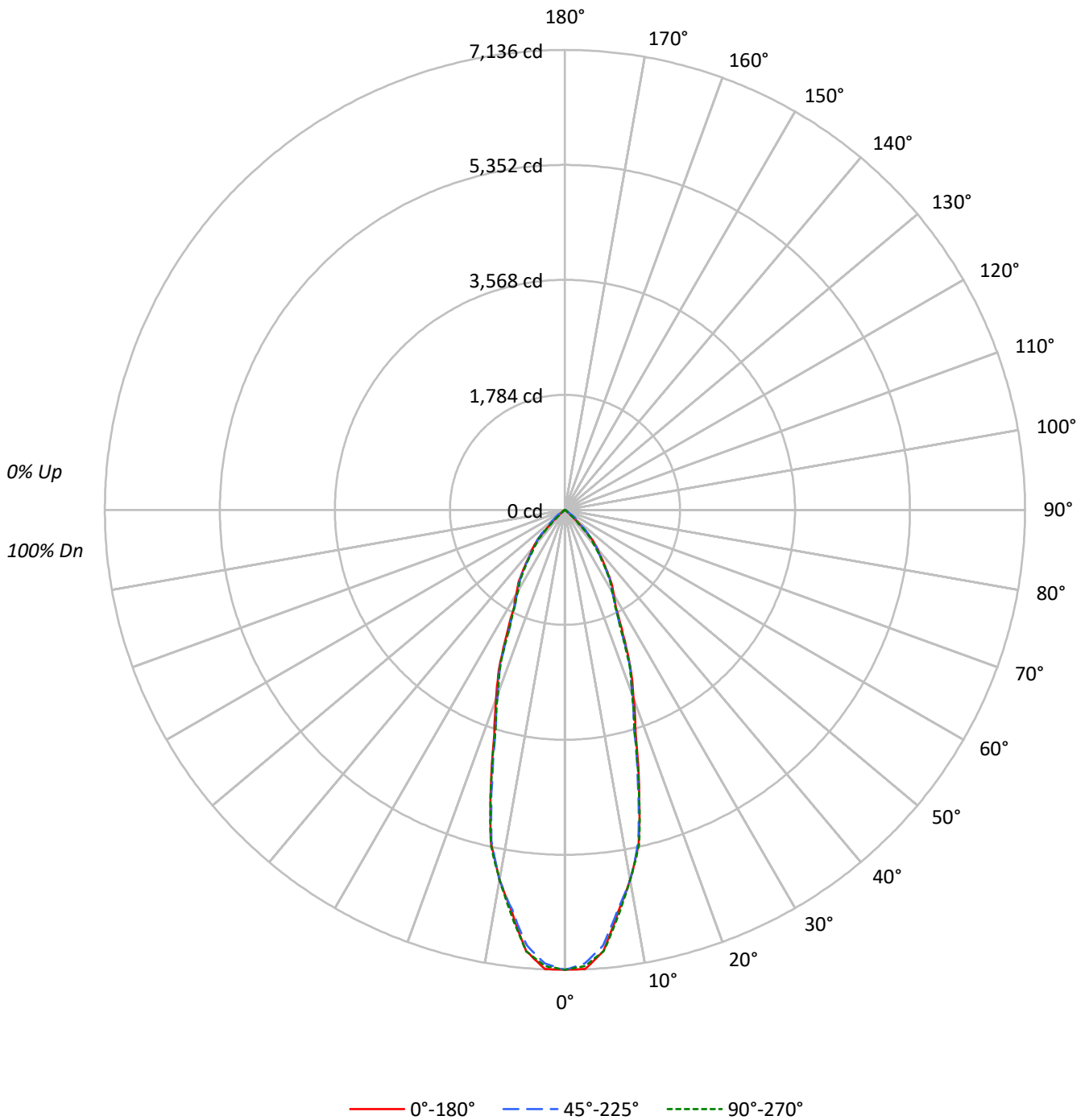
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3857.5 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.1  
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

TEST NUMBER: P853614

CATALOG NUMBER: SQ2-BBN-0U-100D-930-UNV-STD-W-4

### 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	72	69	66	64	64	64
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58	58
10	75	66	60	57	74	65	60	57	64	60	56	64	59	56	63	59	56	55	55	55

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

	0°	45°	90°
0°	115222	115222	115222
5°	111368	109992	111432
10°	95577	95641	95577
15°	74186	73003	74014
20°	53541	52436	52391
25°	37964	36451	36521
30°	28245	27525	27261
35°	21977	21419	20964
40°	16263	15856	14855
45°	8311	10191	6695
50°	1809	5622	1324
55°	507	2280	397
60°	84	455	42
65°	0	50	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10191 cd/sqm

TEST NUMBER: P853614

CATALOG NUMBER: SQ2-BBN-0U-100D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.1	16.0
10°-20°	1216.6	31.5
20°-30°	981.4	25.4
30°-40°	681.8	17.7
40°-50°	315.0	8.2
50°-60°	44.2	1.1
60°-70°	1.5	0.0
70°-80°	0.0	0.0
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°	2815.1	73.0
0°-40°	3496.9	90.6
0°-60°	3856.0	100.0
0°-90°	3857.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7136	7136	7136	7136	7136	
5°	6871	6835	6786	6870	6875	618
15°	4438	4495	4367	4429	4428	1222
25°	2131	2083	2046	2076	2050	998
35°	1115	1115	1087	1067	1064	698
45°	364	434	446	405	293	294
55°	18	28	81	23	14	23
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P853614

CATALOG NUMBER: SQ2-BBN-0U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7136.3	7136.3	7136.3	7136.3	7136.3
2.5°	7132.2	7106.1	7043.7	7099.9	7082.8
5°	6871.4	6834.9	6786.5	6870.2	6875.3
7.5°	6295.8	6307.6	6262.6	6355.0	6345.1
10°	5829.7	5838.5	5833.6	5863.6	5829.7
12.5°	5289.6	5324.5	5258.4	5305.1	5319.4
15°	4438.2	4494.8	4367.4	4429.2	4427.9
17.5°	3639.8	3634.0	3568.3	3579.8	3576.0
20°	3116.1	3107.3	3051.8	3043.0	3049.2
22.5°	2667.5	2652.7	2633.1	2610.9	2619.2
25°	2131.0	2083.2	2046.1	2076.4	2050.0
27.5°	1710.5	1709.7	1679.1	1682.5	1687.6
30°	1515.0	1506.2	1476.4	1477.3	1462.2
32.5°	1341.1	1347.4	1310.7	1303.5	1288.4
35°	1115.0	1115.0	1086.7	1067.3	1063.6
37.5°	905.4	903.1	883.0	855.5	845.7
40°	771.6	765.3	752.3	718.6	704.8
42.5°	619.4	636.2	623.7	589.8	569.0
45°	364.0	434.4	446.3	405.1	293.2
47.5°	156.4	233.8	297.9	194.1	101.1
50°	72.0	132.4	223.8	95.5	52.7
52.5°	42.2	72.4	166.2	55.8	33.2
55°	18.0	28.1	81.0	22.9	14.1
57.5°	6.7	12.2	30.6	9.9	5.4
60°	2.6	5.1	14.1	3.8	1.3
62.5°	0.5	2.0	6.9	1.8	0.3
65°	0.0	0.0	1.3	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	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

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TEST NUMBER: P853614

CATALOG NUMBER: SQ2-BBN-0U-100D-930-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00