

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: P845673

Luminaire Tested: SQ2R-WBN-050D-930-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2R-WBN-050D-930-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, NARROW 35-DEGREE OPTIC  
500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

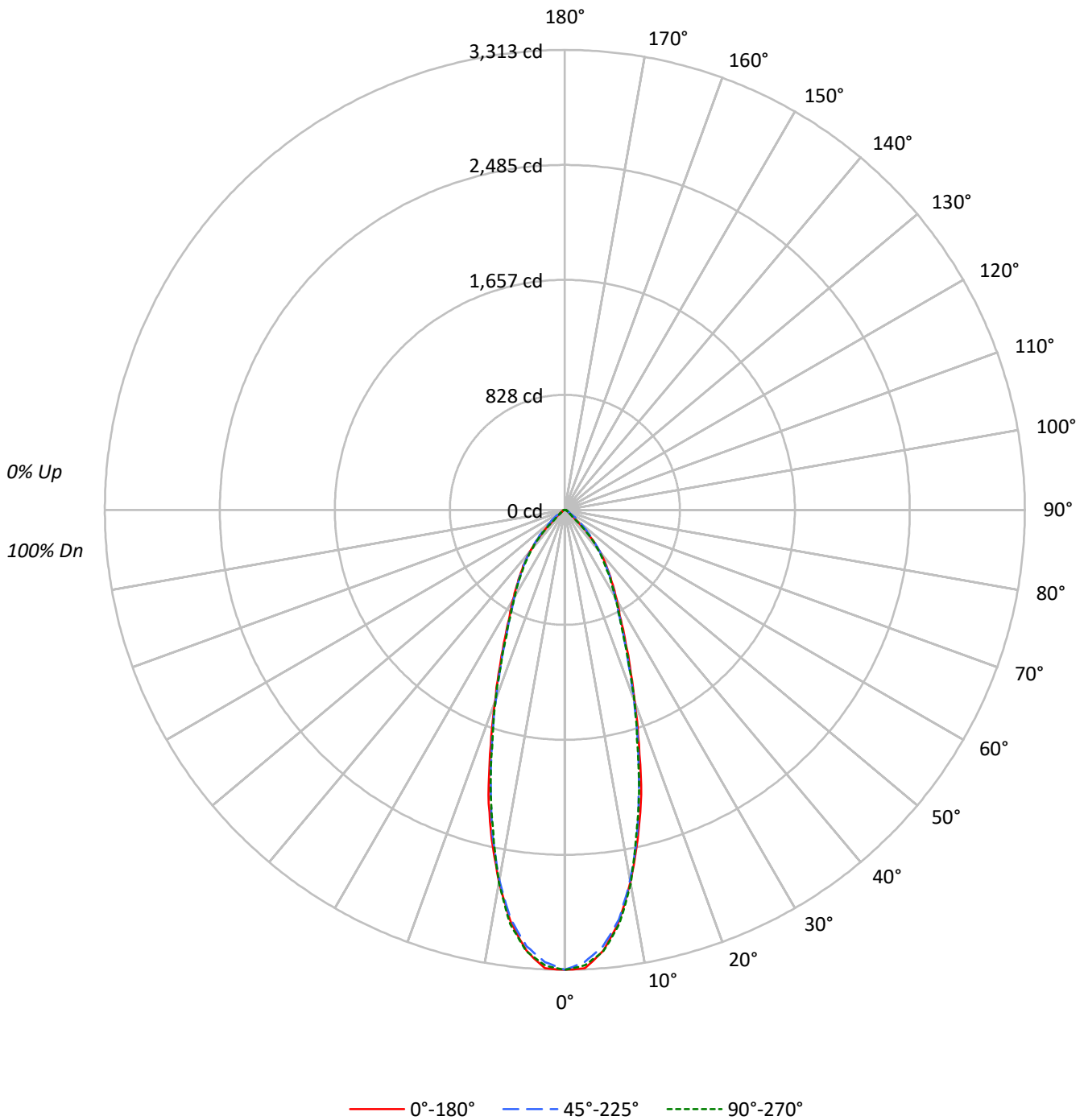
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1922.5 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.6  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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

	0°	45°	90°
0°	53493	53493	53493
5°	51648	51135	51705
10°	44643	44432	44750
15°	35525	34405	34542
20°	25237	24904	25084
25°	18155	17801	17674
30°	13873	13500	13466
35°	10890	10705	10427
40°	8249	8138	7742
45°	4617	5517	4119
50°	1625	3396	1432
55°	994	1852	943
60°	759	969	701
65°	695	718	649
70°	666	666	609
75°	624	624	586
80°	549	549	549
85°	537	445	445

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 5517 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.4	15.1
10°-20°	572.5	29.8
20°-30°	471.0	24.5
30°-40°	340.3	17.7
40°-50°	173.0	9.0
50°-60°	44.3	2.3
60°-70°	18.6	1.0
70°-80°	10.4	0.5
80°-90°	3.1	0.2
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°	1332.9	69.3
0°-40°	1673.2	87.0
0°-60°	1890.5	98.3
0°-90°	1922.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3187	3182	3155	3201	3190	289
15°	2125	2101	2058	2073	2066	578
25°	1019	1017	999	990	992	477
35°	552	556	543	534	529	346
45°	202	233	242	226	180	160
55°	35	41	66	38	34	34
65°	18	19	19	18	17	18
75°	10	10	10	9	9	11
85°	3	3	2	3	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3313.1	3313.1	3313.1	3313.1	3313.1
2.5°	3306.6	3299.6	3260.2	3293.1	3284.9
5°	3186.7	3182.0	3155.0	3200.8	3190.2
7.5°	2989.8	2992.2	2978.1	3013.9	3009.8
10°	2723.0	2733.6	2710.1	2769.4	2729.5
12.5°	2428.5	2417.4	2403.3	2400.3	2382.7
15°	2125.3	2100.6	2058.3	2073.0	2066.5
17.5°	1772.6	1783.8	1742.6	1737.9	1729.1
20°	1468.8	1471.7	1449.4	1461.1	1459.9
22.5°	1224.3	1224.3	1194.3	1213.1	1200.2
25°	1019.1	1017.4	999.2	990.3	992.1
27.5°	858.7	851.0	837.5	844.0	839.9
30°	744.1	738.2	724.1	727.6	722.3
32.5°	641.2	643.0	628.3	625.4	621.8
35°	552.5	556.0	543.1	534.3	529.0
37.5°	470.8	474.3	462.5	450.2	445.5
40°	391.4	393.8	386.1	370.9	367.3
42.5°	305.0	316.8	309.2	295.0	286.2
45°	202.2	233.3	241.6	225.7	180.4
47.5°	111.7	158.1	181.6	141.1	90.5
50°	64.7	94.6	135.2	77.0	57.0
52.5°	45.8	57.6	101.1	51.7	42.9
55°	35.3	41.1	65.8	38.2	33.5
57.5°	28.2	31.7	41.7	30.0	27.0
60°	23.5	25.9	30.0	24.7	21.7
62.5°	20.6	21.7	22.9	20.0	19.4
65°	18.2	18.8	18.8	17.6	17.0
67.5°	15.9	16.5	16.5	15.9	15.3
70°	14.1	14.7	14.1	13.5	12.9
72.5°	11.8	12.3	11.8	11.8	11.2
75°	10.0	10.0	10.0	9.4	9.4
77.5°	8.2	8.2	7.6	7.6	7.1
80°	5.9	6.5	5.9	5.9	5.9
82.5°	4.7	4.7	4.1	4.1	4.1
85°	2.9	2.9	2.4	2.9	2.4
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0



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**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	5.04	6.10	5.40	6.41	6.73	4.65	5.71	5.02	6.02	6.34
	3H	6.09	7.02	6.47	7.36	7.72	5.65	6.59	6.04	6.92	7.29
	4H	6.53	7.39	6.94	7.74	8.13	6.09	6.95	6.49	7.30	7.69
	6H	6.85	7.64	7.27	8.01	8.41	6.43	7.22	6.85	7.59	7.99
	8H	6.96	7.70	7.39	8.09	8.50	6.54	7.28	6.97	7.67	8.08
	12H	7.02	7.73	7.46	8.11	8.55	6.59	7.30	7.03	7.68	8.12
4H	2H	5.28	6.14	5.68	6.49	6.88	4.95	5.81	5.35	6.16	6.55
	3H	6.58	7.28	7.00	7.69	8.09	6.19	6.89	6.61	7.30	7.71
	4H	7.14	7.77	7.58	8.19	8.64	6.75	7.37	7.19	7.80	8.24
	6H	7.60	8.14	8.07	8.59	9.06	7.22	7.75	7.69	8.20	8.67
	8H	7.75	8.25	8.23	8.70	9.18	7.37	7.87	7.85	8.32	8.79
	12H	7.87	8.30	8.36	8.79	9.26	7.47	7.90	7.96	8.39	8.86
8H	4H	7.29	7.78	7.76	8.23	8.71	6.93	7.43	7.41	7.88	8.35
	6H	7.87	8.27	8.38	8.77	9.26	7.52	7.92	8.03	8.42	8.90
	8H	8.10	8.46	8.63	8.98	9.48	7.75	8.10	8.28	8.63	9.12
	12H	8.30	8.61	8.82	9.11	9.69	7.93	8.24	8.45	8.74	9.32
12H	4H	7.27	7.70	7.76	8.19	8.67	6.93	7.36	7.42	7.85	8.32
	6H	7.88	8.24	8.41	8.76	9.25	7.54	7.90	8.07	8.42	8.91
	8H	8.17	8.48	8.69	8.97	9.55	7.83	8.13	8.35	8.63	9.21