

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: P845680

Luminaire Tested: SQ2R-WBN-100D-935-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845680  
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-100D-935-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, NARROW 35-DEGREE OPTIC  
1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

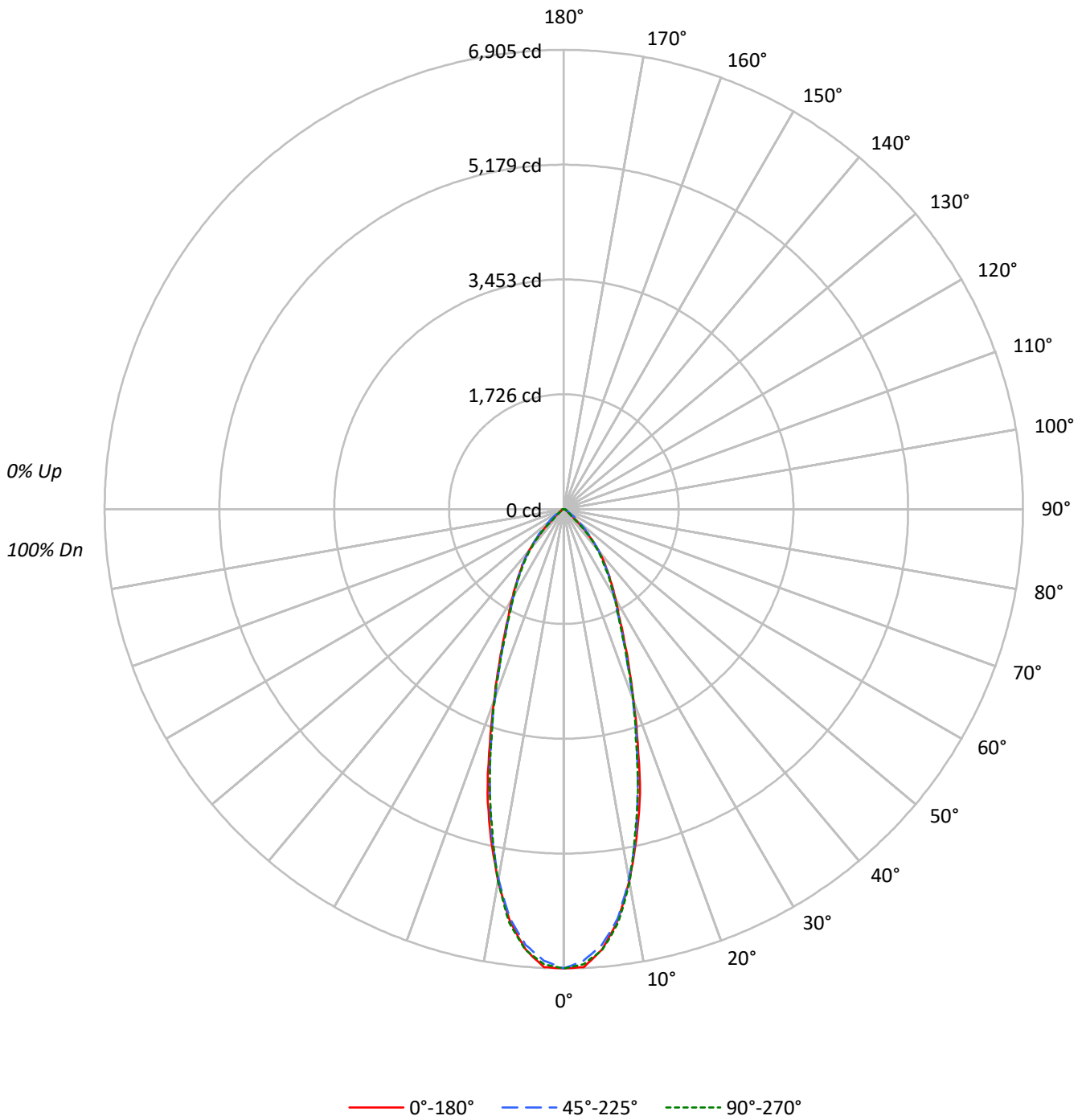
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4007.1 lumens  
Efficiency: N/A  
Efficacy: 114.8 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): 34.9  
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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87				87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70				70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66				66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	66	61	57	65	60	57	64	60	57	55				55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52				52

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

	0°	45°	90°
0°	111493	111493	111493
5°	107650	106577	107769
10°	93049	92607	93269
15°	74043	71709	71995
20°	52599	51905	52283
25°	37843	37100	36838
30°	28914	28137	28068
35°	22697	22310	21731
40°	17197	16963	16136
45°	9622	11497	8588
50°	3386	7078	2984
55°	2069	3862	1965
60°	1582	2018	1463
65°	1452	1498	1356
70°	1388	1388	1275
75°	1298	1298	1223
80°	1144	1144	1144
85°	1130	908	908

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11497 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	603.2	15.1
10°-20°	1193.3	29.8
20°-30°	981.6	24.5
30°-40°	709.2	17.7
40°-50°	360.5	9.0
50°-60°	92.4	2.3
60°-70°	38.8	1.0
70°-80°	21.6	0.5
80°-90°	6.4	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°	2778.1	69.3
0°-40°	3487.3	87.0
0°-60°	3940.3	98.3
0°-90°	4007.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6905	6905	6905	6905	6905	
5°	6642	6632	6576	6671	6649	603
15°	4430	4378	4290	4321	4307	1206
25°	2124	2120	2082	2064	2068	994
35°	1152	1159	1132	1114	1102	722
45°	421	486	504	470	376	334
55°	74	86	137	80	70	71
65°	38	39	39	37	36	38
75°	21	21	21	20	20	22
85°	6	6	5	6	5	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6905.4	6905.4	6905.4	6905.4	6905.4
2.5°	6891.9	6877.2	6795.1	6863.7	6846.6
5°	6642.0	6632.2	6575.8	6671.4	6649.3
7.5°	6231.6	6236.5	6207.1	6281.8	6273.3
10°	5675.5	5697.5	5648.5	5772.2	5688.9
12.5°	5061.7	5038.4	5009.0	5002.9	4966.2
15°	4429.6	4378.2	4290.0	4320.6	4307.1
17.5°	3694.6	3717.9	3632.1	3622.3	3604.0
20°	3061.3	3067.4	3020.9	3045.4	3042.9
22.5°	2551.7	2551.7	2489.2	2528.4	2501.5
25°	2124.2	2120.5	2082.5	2064.1	2067.8
27.5°	1789.7	1773.8	1745.6	1759.1	1750.5
30°	1550.9	1538.6	1509.2	1516.6	1505.5
32.5°	1336.5	1340.2	1309.5	1303.4	1296.1
35°	1151.5	1158.9	1131.9	1113.5	1102.5
37.5°	981.2	988.6	964.1	938.4	928.6
40°	815.9	820.8	804.8	773.0	765.6
42.5°	635.8	660.3	644.4	615.0	596.6
45°	421.4	486.3	503.5	470.4	376.1
47.5°	232.8	329.5	378.5	294.0	188.7
50°	134.8	197.2	281.8	160.5	118.8
52.5°	95.6	120.1	210.7	107.8	89.4
55°	73.5	85.8	137.2	79.6	69.8
57.5°	58.8	66.2	87.0	62.5	56.4
60°	49.0	53.9	62.5	51.5	45.3
62.5°	42.9	45.3	47.8	41.7	40.4
65°	38.0	39.2	39.2	36.8	35.5
67.5°	33.1	34.3	34.3	33.1	31.9
70°	29.4	30.6	29.4	28.2	27.0
72.5°	24.5	25.7	24.5	24.5	23.3
75°	20.8	20.8	20.8	19.6	19.6
77.5°	17.2	17.2	15.9	15.9	14.7
80°	12.3	13.5	12.3	12.3	12.3
82.5°	9.8	9.8	8.6	8.6	8.6
85°	6.1	6.1	4.9	6.1	4.9
87.5°	2.5	2.5	2.5	2.5	2.5
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	7.59	8.65	7.96	8.96	9.28	7.20	8.26	7.57	8.57	8.89
	3H	8.64	9.58	9.03	9.91	10.28	8.21	9.14	8.60	9.48	9.85
	4H	9.08	9.94	9.49	10.29	10.68	8.65	9.51	9.05	9.86	10.25
	6H	9.40	10.19	9.82	10.56	10.96	8.99	9.77	9.40	10.15	10.54
	8H	9.51	10.25	9.94	10.64	11.05	9.09	9.84	9.53	10.23	10.64
	12H	9.57	10.28	10.01	10.67	11.10	9.15	9.86	9.58	10.24	10.67
4H	2H	7.83	8.69	8.24	9.05	9.43	7.50	8.36	7.91	8.72	9.10
	3H	9.13	9.83	9.55	10.24	10.65	8.75	9.45	9.17	9.86	10.27
	4H	9.69	10.31	10.13	10.74	11.19	9.31	9.93	9.74	10.35	10.80
	6H	10.15	10.68	10.62	11.13	11.61	9.77	10.31	10.24	10.76	11.23
	8H	10.30	10.80	10.78	11.25	11.73	9.93	10.42	10.40	10.87	11.35
	12H	10.42	10.85	10.91	11.34	11.81	10.02	10.45	10.51	10.94	11.42
8H	4H	9.83	10.33	10.31	10.78	11.26	9.49	9.99	9.96	10.44	10.91
	6H	10.42	10.82	10.93	11.32	11.80	10.07	10.47	10.58	10.97	11.46
	8H	10.65	11.01	11.18	11.53	12.02	10.30	10.66	10.83	11.18	11.68
	12H	10.85	11.16	11.37	11.66	12.24	10.48	10.79	11.00	11.29	11.87
12H	4H	9.82	10.25	10.31	10.74	11.22	9.48	9.91	9.97	10.40	10.88
	6H	10.43	10.78	10.96	11.31	11.80	10.10	10.45	10.63	10.97	11.47
	8H	10.71	11.02	11.24	11.52	12.10	10.38	10.69	10.90	11.19	11.77