

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: P688809

Luminaire Tested: SQ4R-PP3-050D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-050D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1987.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

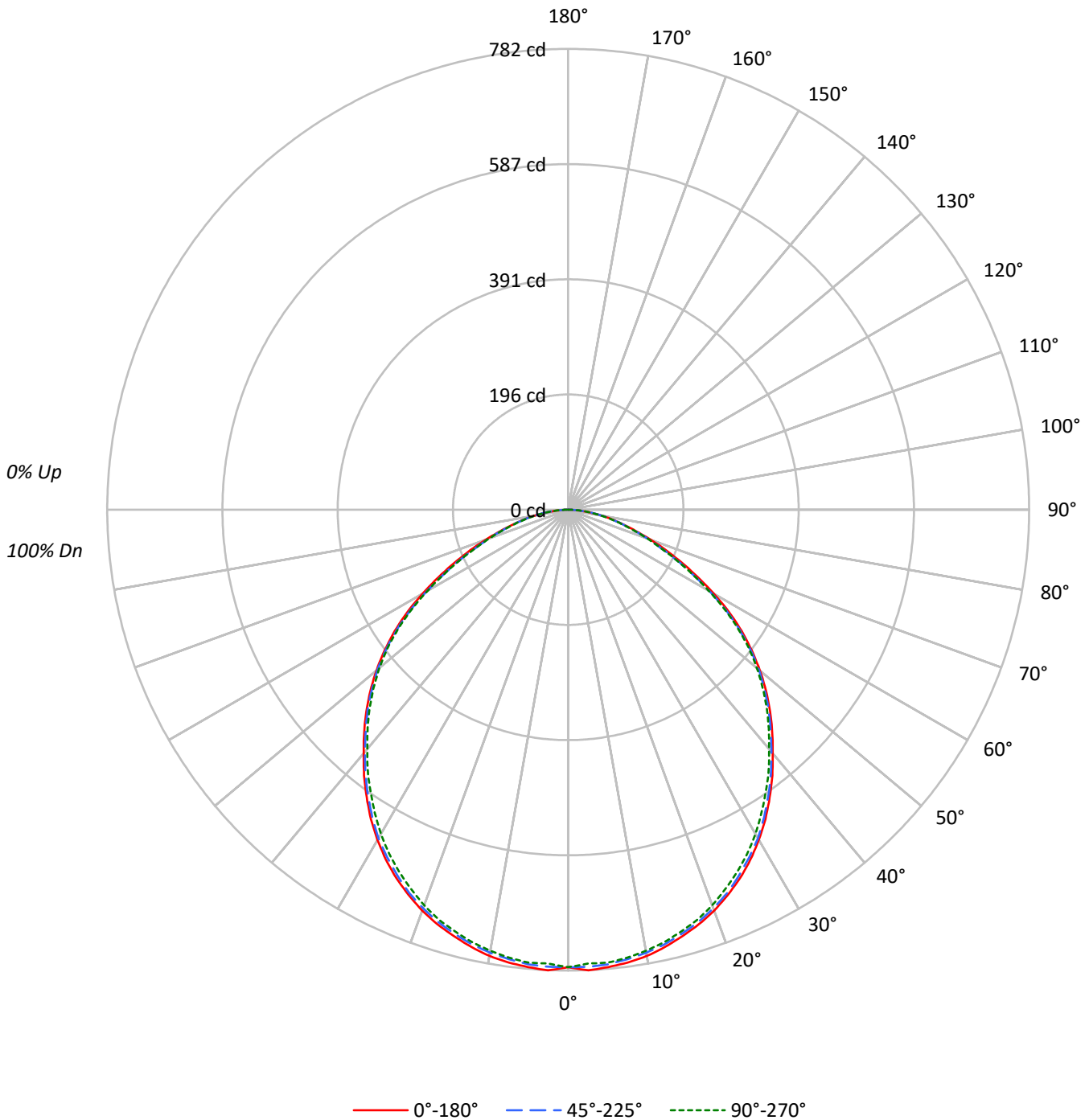
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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

	0°	45°	90°
0°	7474	7474	7474
5°	7529	7483	7457
10°	7517	7463	7430
15°	7466	7425	7386
20°	7418	7376	7319
25°	7329	7279	7206
30°	7194	7156	7065
35°	7005	6958	6870
40°	6781	6739	6661
45°	6597	6549	6485
50°	6359	6319	6258
55°	6031	5950	5905
60°	5490	5332	5307
65°	4836	4633	4620
70°	4174	4003	4003
75°	3593	3545	3493
80°	3171	3205	3132
85°	2485	2706	2706

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6597 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.7
10°-20°	209.7	10.6
20°-30°	314.2	15.8
30°-40°	368.5	18.5
40°-50°	369.6	18.6
50°-60°	315.6	15.9
60°-70°	205.1	10.3
70°-80°	102.7	5.2
80°-90°	28.2	1.4
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°	597.3	30.1
0°-40°	965.8	48.6
0°-60°	1651.0	83.1
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	779	772	774	772	772	74
15°	749	742	745	742	741	211
25°	690	682	685	679	678	317
35°	596	590	592	585	584	373
45°	484	481	481	476	476	373
55°	359	358	354	352	352	320
65°	212	208	203	202	203	212
75°	97	97	95	95	94	104
85°	22	24	24	24	24	27
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	776.3	776.3	776.3	776.3	776.3
2.5°	782.5	774.3	776.3	775.0	770.9
5°	779.1	771.6	774.3	771.6	771.6
7.5°	775.0	766.8	769.5	766.8	766.8
10°	768.9	760.7	763.4	760.7	760.0
12.5°	760.0	751.9	755.3	751.9	751.9
15°	749.1	741.6	745.0	742.3	741.0
17.5°	737.6	729.4	733.5	730.1	729.4
20°	724.0	715.8	719.9	714.4	714.4
22.5°	707.6	699.5	704.2	696.7	696.7
25°	689.9	681.8	685.2	679.0	678.4
27.5°	669.5	661.4	664.8	658.0	658.0
30°	647.1	639.6	643.7	636.2	635.5
32.5°	622.6	615.8	618.5	611.0	610.3
35°	596.0	589.9	592.0	585.2	584.5
37.5°	568.8	562.0	564.7	558.6	558.6
40°	539.6	535.5	536.2	531.4	530.0
42.5°	512.3	507.6	508.3	503.5	503.5
45°	484.5	481.0	481.0	476.3	476.3
47.5°	455.2	452.5	451.8	447.7	447.7
50°	424.6	422.5	421.9	418.5	417.8
52.5°	392.6	391.9	389.2	386.5	386.5
55°	359.3	357.9	354.5	352.5	351.8
57.5°	323.9	321.2	317.8	314.3	315.0
60°	285.1	282.4	276.9	275.6	275.6
62.5°	247.7	244.3	238.8	236.8	238.1
65°	212.3	208.2	203.4	202.1	202.8
67.5°	179.6	175.5	170.1	170.1	169.4
70°	148.3	146.3	142.2	142.2	142.2
72.5°	120.4	119.8	117.0	117.0	116.3
75°	96.6	96.6	95.3	94.6	93.9
77.5°	76.2	76.2	75.5	74.8	73.5
80°	57.2	58.5	57.8	57.2	56.5
82.5°	39.5	40.8	40.8	39.5	39.5
85°	22.5	24.5	24.5	24.5	24.5
87.5°	7.5	10.2	10.9	10.9	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)