

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: P688957

Luminaire Tested: SQ4R-PW1-050D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-050D-92765-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1796.9 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

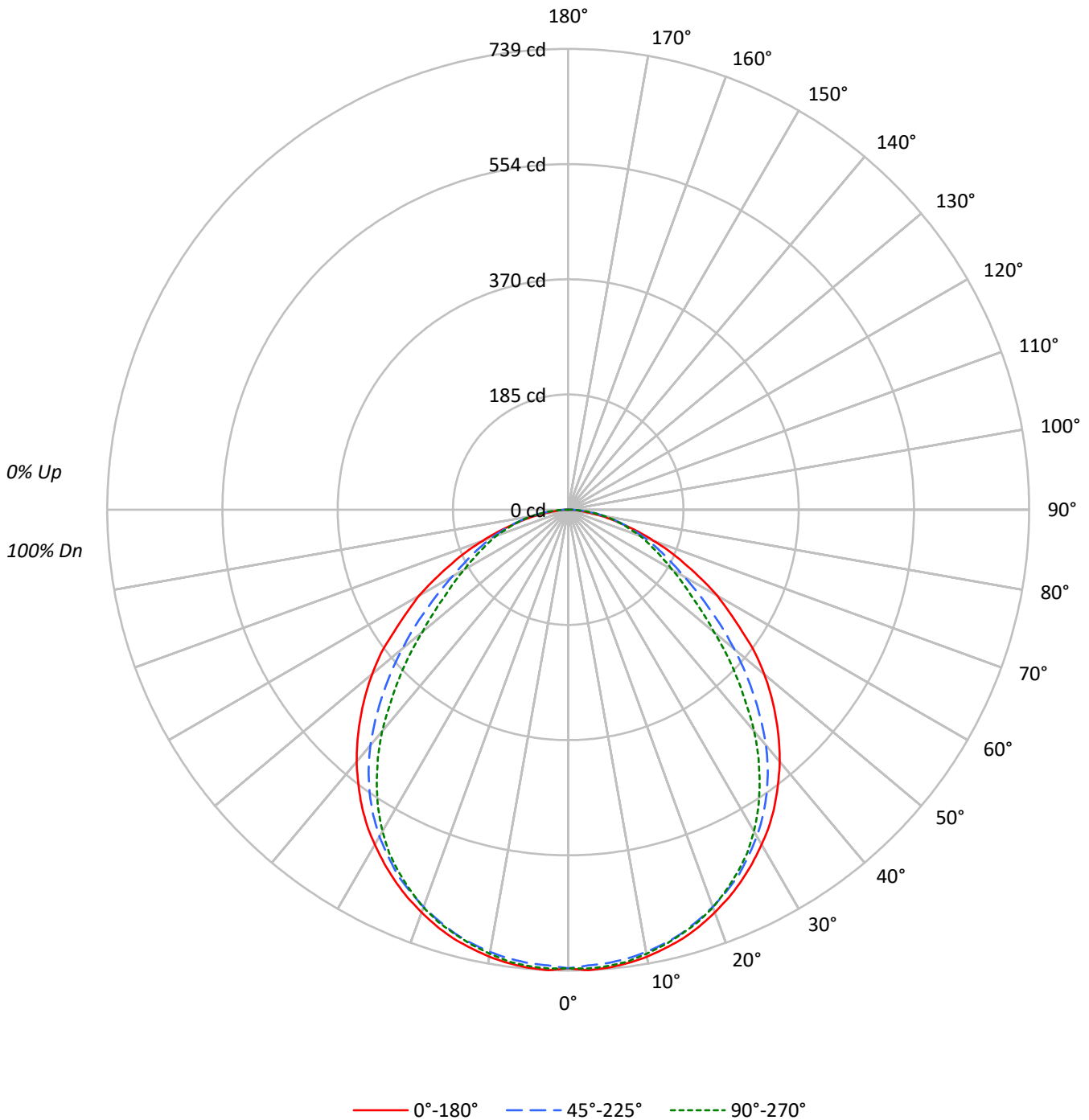
Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	7080	7080	7080
5°	7125	7053	7098
10°	7116	7042	7069
15°	7094	7010	7019
20°	7041	6944	6953
25°	6979	6869	6818
30°	6893	6726	6620
35°	6788	6522	6288
40°	6629	6201	5833
45°	6410	5728	5225
50°	6145	5196	4573
55°	5712	4617	4045
60°	5314	4132	3712
65°	4716	3834	3510
70°	4098	3645	3459
75°	3374	3444	3307
80°	2672	3249	3249
85°	1988	2927	3027

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6410 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	3.9
10°-20°	199.3	11.1
20°-30°	298.5	16.6
30°-40°	346.8	19.3
40°-50°	327.3	18.2
50°-60°	255.3	14.2
60°-70°	173.3	9.6
70°-80°	97.6	5.4
80°-90°	29.0	1.6
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°	567.6	31.6
0°-40°	914.4	50.9
0°-60°	1497.0	83.3
0°-90°	1796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	737	735	730	735	734	70
15°	712	709	703	707	704	201
25°	657	654	647	645	642	303
35°	578	572	555	543	535	361
45°	471	457	421	394	384	363
55°	340	320	275	249	241	306
65°	207	188	168	158	154	207
75°	91	94	93	89	89	99
85°	18	26	26	26	27	22
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	735.4	735.4	735.4	735.4	735.4
2.5°	739.2	737.3	731.6	737.3	736.4
5°	737.3	735.4	729.8	735.4	734.5
7.5°	733.5	732.6	726.0	731.6	730.7
10°	727.9	726.9	720.3	725.0	723.1
12.5°	720.3	719.4	712.7	716.5	714.6
15°	711.8	709.0	703.3	707.1	704.2
17.5°	700.5	697.6	691.0	693.8	692.9
20°	687.2	684.4	677.8	680.6	678.7
22.5°	673.0	670.2	662.6	663.6	660.8
25°	657.0	654.1	646.6	644.7	641.8
27.5°	639.0	637.1	625.8	623.9	621.1
30°	620.1	617.3	605.0	601.2	595.5
32.5°	600.3	594.6	581.3	573.8	567.2
35°	577.6	571.9	554.9	542.6	535.0
37.5°	553.0	544.5	525.6	508.6	501.0
40°	527.5	518.0	493.4	470.8	464.1
42.5°	500.1	488.7	457.5	433.9	422.5
45°	470.8	456.6	420.7	394.2	383.8
47.5°	441.4	423.5	384.7	356.4	345.0
50°	410.3	388.5	346.9	316.7	305.3
52.5°	378.1	354.5	311.9	280.7	272.2
55°	340.3	320.5	275.1	248.6	241.0
57.5°	306.3	284.5	244.8	222.1	216.5
60°	276.0	249.6	214.6	197.6	192.8
62.5°	241.0	217.4	190.0	176.8	172.0
65°	207.0	188.1	168.3	157.9	154.1
67.5°	177.7	161.6	148.4	139.9	138.0
70°	145.6	137.1	129.5	122.9	122.9
72.5°	118.2	115.3	110.6	106.8	104.0
75°	90.7	94.5	92.6	88.9	88.9
77.5°	69.0	74.7	75.6	73.7	74.7
80°	48.2	56.7	58.6	57.7	58.6
82.5°	30.2	40.6	42.5	42.5	43.5
85°	18.0	25.5	26.5	26.5	27.4
87.5°	7.6	12.3	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)