

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: P688886

Luminaire Tested: SQ4R-PR1-050D-93050-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-050D-93050-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 1835.6 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

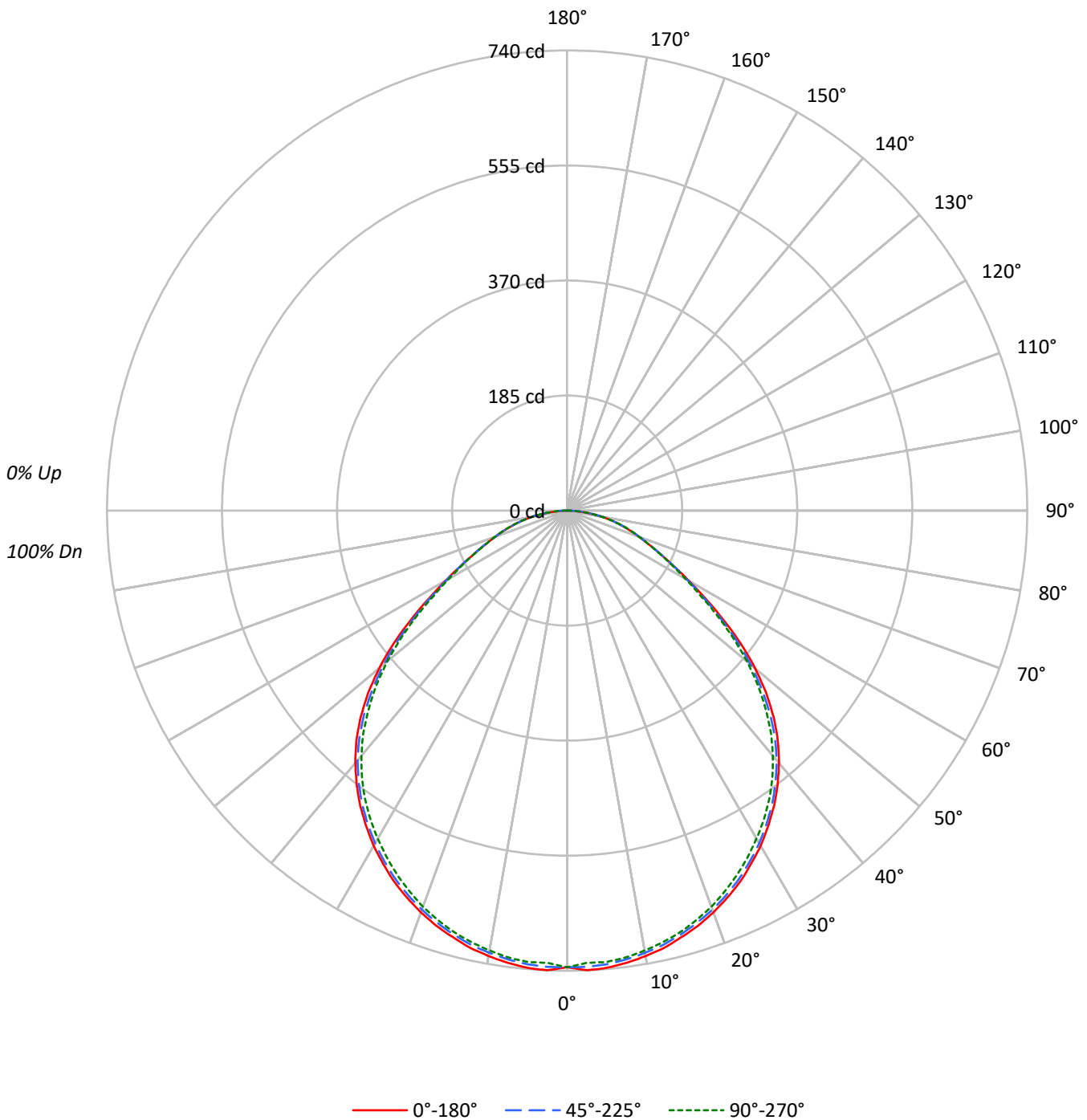
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	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	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	7069	7069	7069
5°	7132	7078	7041
10°	7110	7060	7023
15°	7079	7035	6997
20°	7044	6997	6946
25°	6994	6946	6865
30°	6918	6869	6770
35°	6815	6757	6660
40°	6661	6589	6470
45°	6390	6277	6149
50°	5910	5769	5655
55°	5160	5042	4936
60°	4348	4311	4226
65°	3761	3775	3745
70°	3454	3471	3471
75°	3318	3318	3340
80°	3121	3155	3121
85°	2519	2795	2795

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6390 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	3.8
10°-20°	198.8	10.8
20°-30°	299.8	16.3
30°-40°	357.3	19.5
40°-50°	352.4	19.2
50°-60°	268.9	14.6
60°-70°	165.9	9.0
70°-80°	94.6	5.2
80°-90°	28.5	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°	568.0	30.9
0°-40°	925.3	50.4
0°-60°	1546.6	84.3
0°-90°	1835.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	738	730	732	730	729	70
15°	710	703	706	703	702	201
25°	658	650	654	647	646	303
35°	580	573	575	567	567	362
45°	469	463	461	453	452	360
55°	307	302	300	295	294	275
65°	165	164	166	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	27
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	734.3	734.3	734.3	734.3	734.3
2.5°	739.9	731.7	734.3	732.4	727.9
5°	738.0	729.8	732.4	729.8	728.6
7.5°	733.6	725.4	727.9	725.4	724.8
10°	727.3	719.7	722.2	719.7	718.4
12.5°	720.3	712.1	715.3	712.1	710.9
15°	710.2	702.6	705.8	703.3	702.0
17.5°	700.1	691.9	695.0	692.5	690.6
20°	687.5	679.9	683.0	678.6	678.0
22.5°	673.5	666.0	669.1	662.8	662.8
25°	658.4	650.1	653.9	647.0	646.3
27.5°	640.7	633.1	636.2	629.3	628.6
30°	622.3	614.7	617.9	610.3	609.0
32.5°	601.4	594.5	597.0	589.4	588.8
35°	579.9	573.0	574.9	567.3	566.7
37.5°	555.9	549.6	550.8	542.6	542.0
40°	530.0	523.7	524.3	515.4	514.8
42.5°	501.5	495.2	494.6	485.7	485.1
45°	469.3	462.9	461.0	452.8	451.6
47.5°	433.8	427.5	423.7	416.8	416.1
50°	394.6	388.3	385.2	379.5	377.6
52.5°	352.3	345.9	343.4	338.4	336.5
55°	307.4	302.3	300.4	295.3	294.1
57.5°	264.4	260.6	259.9	254.9	254.2
60°	225.8	223.9	223.9	219.5	219.5
62.5°	192.9	191.6	192.9	190.4	189.7
65°	165.1	163.8	165.7	164.4	164.4
67.5°	141.7	141.7	142.9	142.3	142.3
70°	122.7	122.7	123.3	123.3	123.3
72.5°	105.6	105.0	106.9	106.9	106.2
75°	89.2	89.2	89.2	89.8	89.8
77.5°	72.7	72.7	73.4	73.4	72.7
80°	56.3	56.9	56.9	56.3	56.3
82.5°	39.8	40.5	40.5	40.5	39.8
85°	22.8	24.0	25.3	25.3	25.3
87.5°	8.2	10.8	12.6	12.6	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)