

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: P688888

Luminaire Tested: SQ4R-PR1-050D-93050-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688888  
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\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1915.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

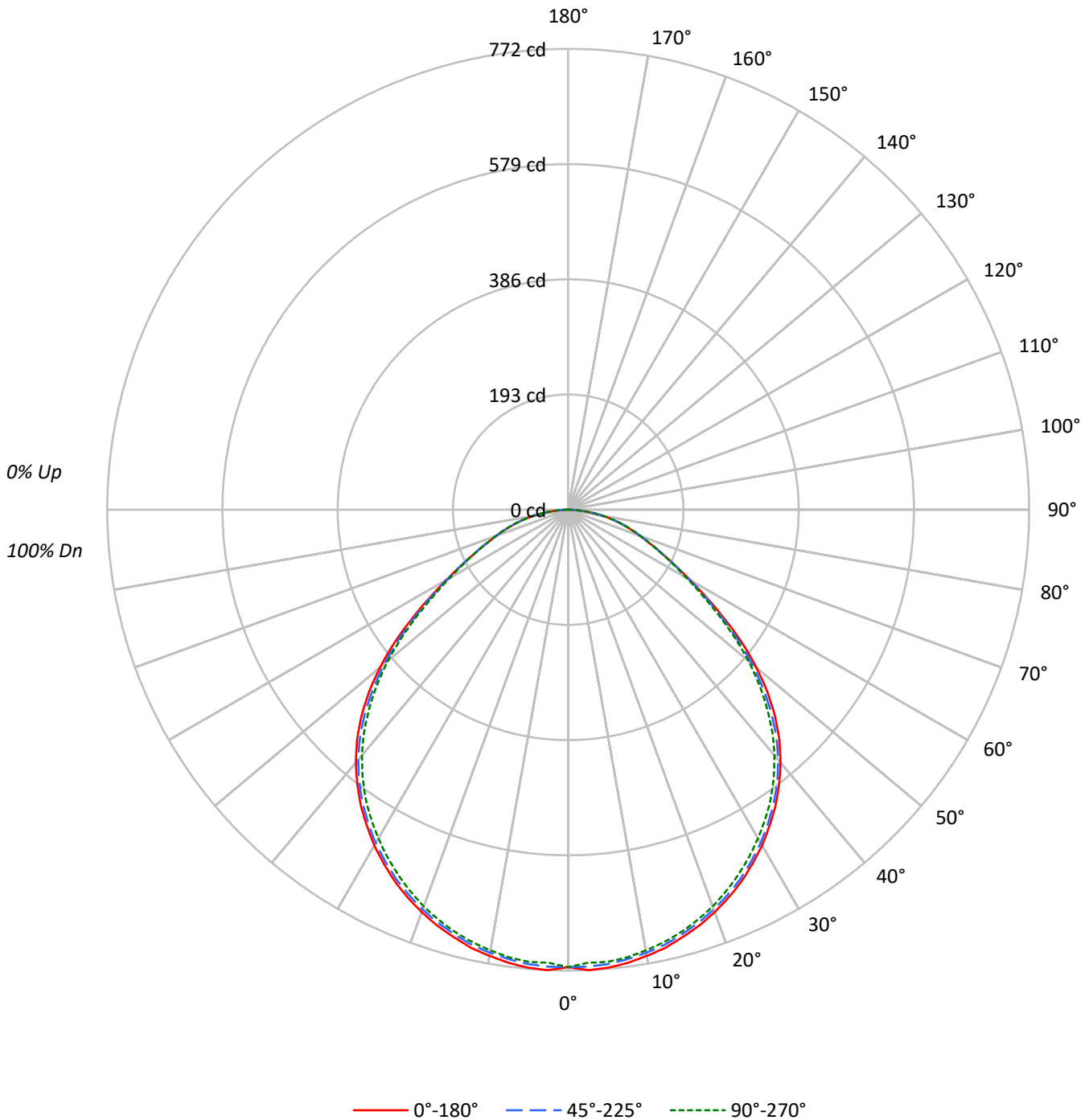
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	7376	7376	7376
5°	7442	7385	7347
10°	7419	7367	7329
15°	7387	7341	7301
20°	7349	7302	7247
25°	7298	7249	7164
30°	7219	7167	7065
35°	7113	7051	6949
40°	6950	6876	6751
45°	6667	6550	6415
50°	6168	6019	5901
55°	5383	5262	5151
60°	4536	4498	4409
65°	3923	3939	3909
70°	3603	3623	3623
75°	3459	3459	3485
80°	3254	3293	3254
85°	2629	2916	2916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6667 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	3.8
10°-20°	207.4	10.8
20°-30°	312.8	16.3
30°-40°	372.8	19.5
40°-50°	367.8	19.2
50°-60°	280.5	14.6
60°-70°	173.1	9.0
70°-80°	98.7	5.2
80°-90°	29.8	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°	592.7	30.9
0°-40°	965.5	50.4
0°-60°	1613.9	84.3
0°-90°	1915.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	770	762	764	762	760	73
15°	741	733	736	734	732	209
25°	687	678	682	675	674	316
35°	605	598	600	592	591	378
45°	490	483	481	472	471	376
55°	321	315	314	308	307	287
65°	172	171	173	172	172	174
75°	93	93	93	94	94	98
85°	24	25	26	26	26	28
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.2	766.2	766.2	766.2	766.2
2.5°	772.1	763.5	766.2	764.2	759.6
5°	770.1	761.6	764.2	761.6	760.2
7.5°	765.5	756.9	759.6	756.9	756.3
10°	758.9	751.0	753.6	751.0	749.7
12.5°	751.7	743.1	746.4	743.1	741.8
15°	741.1	733.2	736.5	733.8	732.5
17.5°	730.5	722.0	725.3	722.6	720.6
20°	717.3	709.4	712.7	708.1	707.4
22.5°	702.8	694.9	698.2	691.6	691.6
25°	687.0	678.4	682.4	675.1	674.4
27.5°	668.5	660.6	663.9	656.6	656.0
30°	649.4	641.4	644.7	636.8	635.5
32.5°	627.6	620.3	623.0	615.1	614.4
35°	605.2	597.9	599.9	592.0	591.3
37.5°	580.1	573.5	574.8	566.2	565.6
40°	553.0	546.4	547.1	537.8	537.2
42.5°	523.3	516.7	516.1	506.8	506.2
45°	489.7	483.1	481.1	472.5	471.2
47.5°	452.7	446.1	442.2	434.9	434.2
50°	411.8	405.2	401.9	396.0	394.0
52.5°	367.6	361.0	358.3	353.1	351.1
55°	320.7	315.4	313.5	308.2	306.9
57.5°	275.8	271.9	271.2	265.9	265.3
60°	235.6	233.6	233.6	229.0	229.0
62.5°	201.3	200.0	201.3	198.6	198.0
65°	172.2	170.9	172.9	171.6	171.6
67.5°	147.8	147.8	149.1	148.5	148.5
70°	128.0	128.0	128.7	128.7	128.7
72.5°	110.2	109.5	111.5	111.5	110.9
75°	93.0	93.0	93.0	93.7	93.7
77.5°	75.9	75.9	76.6	76.6	75.9
80°	58.7	59.4	59.4	58.7	58.7
82.5°	41.6	42.2	42.2	42.2	41.6
85°	23.8	25.1	26.4	26.4	26.4
87.5°	8.6	11.2	13.2	13.2	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)