

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: P686065

Luminaire Tested: SQ4R-F-050D-935-1-UNV-STD-W-4

Issue Date: 11/18/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P686065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-F-050D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1742.3 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

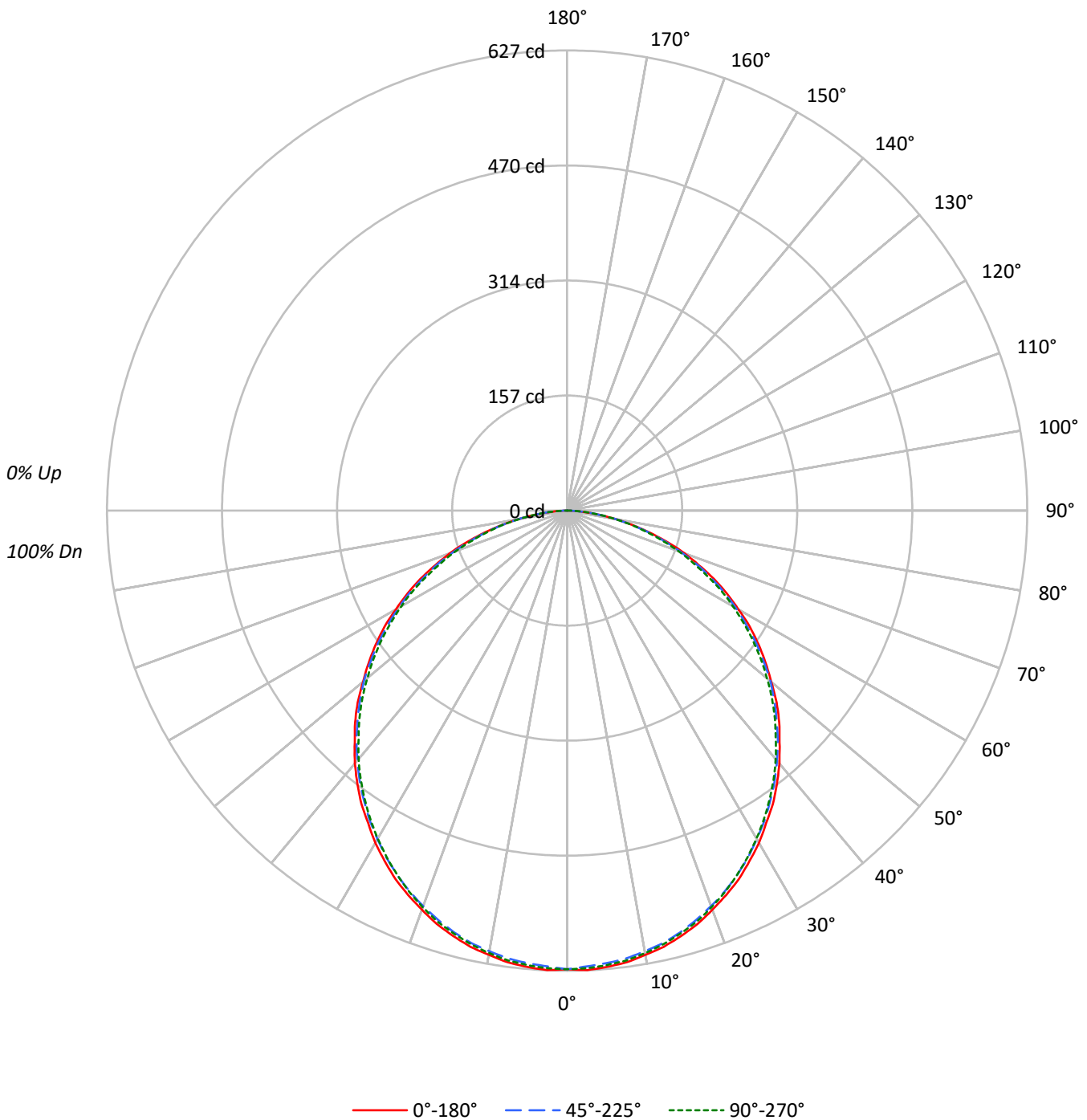
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	6017	6017	6017
5°	6032	5982	6007
10°	6009	5959	5985
15°	5981	5930	5947
20°	5929	5876	5893
25°	5883	5819	5819
30°	5813	5746	5736
35°	5741	5671	5651
40°	5654	5589	5557
45°	5564	5494	5447
50°	5440	5414	5324
55°	5346	5274	5188
60°	5191	5108	5025
65°	5028	4909	4793
70°	4785	4639	4543
75°	4345	4248	4151
80°	3715	3715	3665
85°	2651	2850	2850

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5564 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	3.4
10°-20°	168.6	9.7
20°-30°	253.4	14.5
30°-40°	302.8	17.4
40°-50°	312.1	17.9
50°-60°	280.8	16.1
60°-70°	213.5	12.3
70°-80°	121.4	7.0
80°-90°	30.7	1.8
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°	481.1	27.6
0°-40°	783.9	45.0
0°-60°	1376.8	79.0
0°-90°	1742.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	624	623	619	624	622	59
15°	600	599	595	598	597	169
25°	554	552	548	550	548	255
35°	488	487	482	482	481	305
45°	409	409	404	401	400	315
55°	318	318	314	312	309	284
65°	221	220	216	213	210	218
75°	117	116	114	113	112	124
85°	24	25	26	26	26	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.0	625.0	625.0	625.0	625.0
2.5°	626.8	625.0	621.6	625.9	624.2
5°	624.2	623.3	619.0	624.2	621.6
7.5°	620.8	619.9	615.6	619.9	618.2
10°	614.7	613.9	609.6	613.9	612.2
12.5°	608.7	607.9	603.6	607.0	605.3
15°	600.1	599.3	595.0	598.4	596.7
17.5°	590.7	589.8	584.7	588.1	587.3
20°	578.7	577.8	573.5	576.1	575.2
22.5°	566.7	565.8	561.5	564.1	562.4
25°	553.8	552.1	547.8	549.5	547.8
27.5°	538.3	537.5	533.2	534.0	532.3
30°	522.9	522.0	516.9	517.7	516.0
32.5°	504.8	504.8	500.6	500.6	498.8
35°	488.5	486.8	482.5	482.5	480.8
37.5°	469.6	467.9	464.5	463.6	461.9
40°	449.9	449.0	444.7	443.9	442.2
42.5°	428.4	429.3	425.0	422.4	420.7
45°	408.7	408.7	403.5	401.0	400.1
47.5°	387.2	387.2	382.9	380.4	378.6
50°	363.2	364.9	361.5	357.2	355.5
52.5°	340.9	341.7	337.4	334.8	333.1
55°	318.5	317.7	314.2	311.7	309.1
57.5°	295.4	294.5	289.3	286.8	285.0
60°	269.6	269.6	265.3	262.7	261.0
62.5°	245.6	244.7	241.3	237.8	237.0
65°	220.7	219.8	215.5	212.9	210.4
67.5°	194.0	193.2	190.6	187.2	185.5
70°	170.0	167.4	164.8	162.3	161.4
72.5°	144.2	141.7	139.1	137.4	135.7
75°	116.8	115.9	114.2	113.3	111.6
77.5°	91.9	91.9	90.2	89.3	89.3
80°	67.0	67.0	67.0	66.1	66.1
82.5°	43.8	44.6	44.6	43.8	44.6
85°	24.0	24.9	25.8	25.8	25.8
87.5°	7.7	10.3	9.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)