

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: P686062

Luminaire Tested: SQ4R-F-050D-835-1-UNV-STD-W-4

Issue Date: 11/18/2022

Test Information

Test Method: LM-79-2019
Report Number: P686062
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-050D-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2029.2 lumens
Efficiency: N/A
Efficacy: 107.4 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

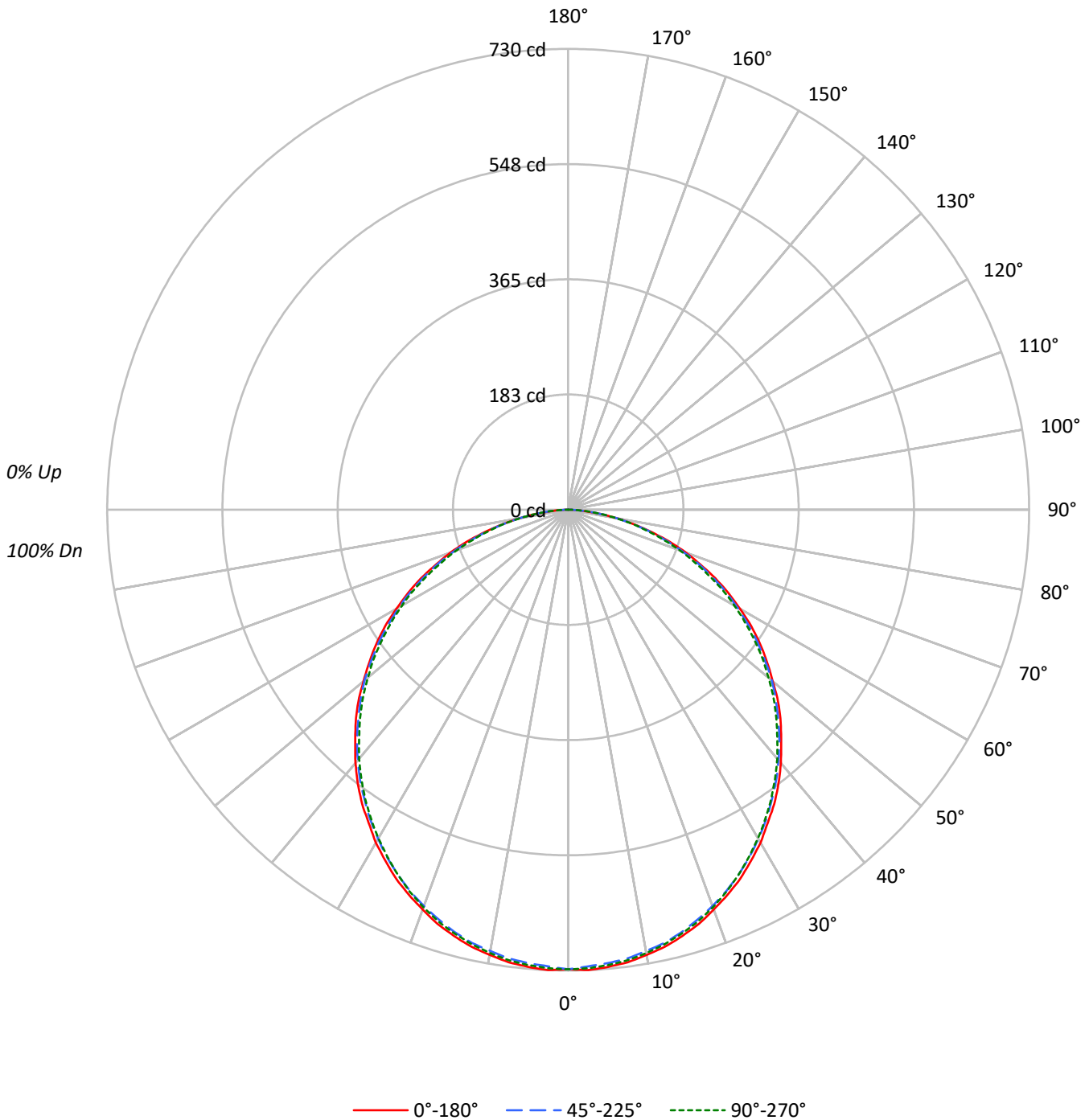
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84	84	
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70	70	
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50	50	
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38	38	
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33	33	
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30	30	
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27	27	
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7009	7009	7009
5°	7026	6968	6997
10°	7000	6941	6970
15°	6967	6907	6927
20°	6905	6844	6864
25°	6852	6777	6777
30°	6770	6692	6681
35°	6687	6605	6582
40°	6585	6510	6472
45°	6481	6399	6345
50°	6335	6306	6201
55°	6227	6143	6043
60°	6046	5950	5853
65°	5855	5718	5581
70°	5573	5405	5292
75°	5059	4947	4836
80°	4324	4324	4269
85°	3093	3314	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6481 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.4
10°-20°	196.4	9.7
20°-30°	295.1	14.5
30°-40°	352.7	17.4
40°-50°	363.5	17.9
50°-60°	327.0	16.1
60°-70°	248.6	12.3
70°-80°	141.3	7.0
80°-90°	35.7	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°	560.3	27.6
0°-40°	913.1	45.0
0°-60°	1603.6	79.0
0°-90°	2029.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	727	726	721	727	724	69
15°	699	698	693	697	695	197
25°	645	643	638	640	638	297
35°	569	567	562	562	560	356
45°	476	476	470	467	466	367
55°	371	370	366	363	360	331
65°	257	256	251	248	245	254
75°	136	135	133	132	130	145
85°	28	29	30	30	30	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728	728	728	728	728
2.5°	730	728	724	729	727
5°	727	726	721	727	724
7.5°	723	722	717	722	720
10°	716	715	710	715	713
12.5°	709	708	703	707	705
15°	699	698	693	697	695
17.5°	688	687	681	685	684
20°	674	673	668	671	670
22.5°	660	659	654	657	655
25°	645	643	638	640	638
27.5°	627	626	621	622	620
30°	609	608	602	603	601
32.5°	588	588	583	583	581
35°	569	567	562	562	560
37.5°	547	545	541	540	538
40°	524	523	518	517	515
42.5°	499	500	495	492	490
45°	476	476	470	467	466
47.5°	451	451	446	443	441
50°	423	425	421	416	414
52.5°	397	398	393	390	388
55°	371	370	366	363	360
57.5°	344	343	337	334	332
60°	314	314	309	306	304
62.5°	286	285	281	277	276
65°	257	256	251	248	245
67.5°	226	225	222	218	216
70°	198	195	192	189	188
72.5°	168	165	162	160	158
75°	136	135	133	132	130
77.5°	107	107	105	104	104
80°	78	78	78	77	77
82.5°	51	52	52	51	52
85°	28	29	30	30	30
87.5°	9	12	11	12	12
90°	0	0	0	0	0

(END OF REPORT)