

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: P688573

Luminaire Tested: SQ4R-PR1-050D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688573
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.5 lumens
Efficiency: N/A
Efficacy: 104.0 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

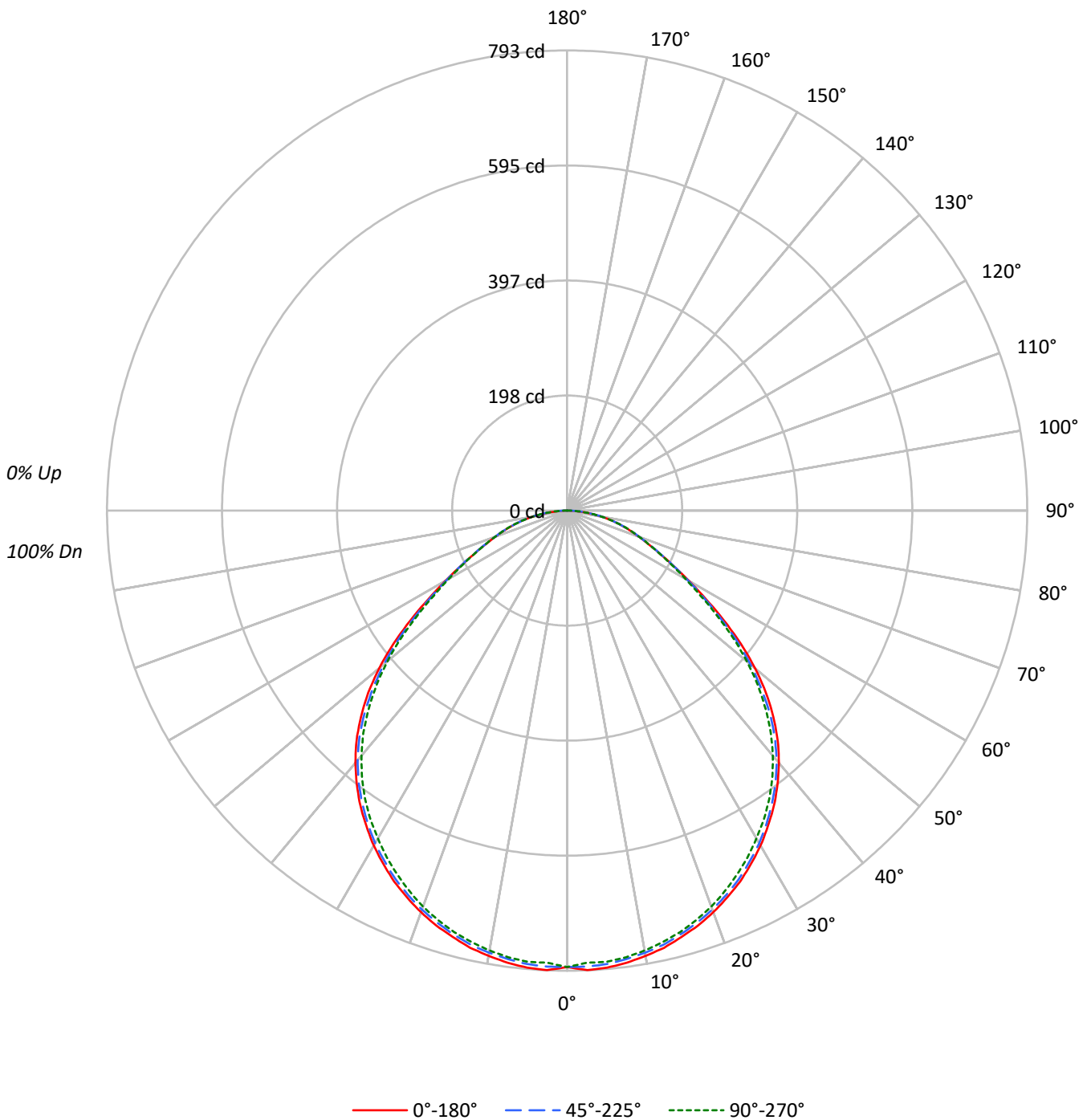
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				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°	7573	7573	7573
5°	7641	7582	7543
10°	7616	7564	7524
15°	7583	7536	7495
20°	7546	7496	7441
25°	7492	7441	7355
30°	7412	7358	7253
35°	7302	7239	7134
40°	7136	7059	6931
45°	6844	6725	6586
50°	6332	6180	6058
55°	5527	5401	5287
60°	4658	4617	4527
65°	4028	4043	4014
70°	3699	3718	3718
75°	3552	3552	3578
80°	3343	3382	3343
85°	2695	2994	2994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.8
10°-20°	212.9	10.8
20°-30°	321.2	16.3
30°-40°	382.7	19.5
40°-50°	377.6	19.2
50°-60°	288.0	14.6
60°-70°	177.8	9.0
70°-80°	101.3	5.2
80°-90°	30.6	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°	608.5	30.9
0°-40°	991.3	50.4
0°-60°	1656.8	84.3
0°-90°	1966.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	791	782	785	782	780	75
15°	761	753	756	753	752	215
25°	705	696	700	693	692	325
35°	621	614	616	608	607	388
45°	503	496	494	485	484	386
55°	329	324	322	316	315	295
65°	177	176	178	176	176	178
75°	96	96	96	96	96	101
85°	24	26	27	27	27	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.6	786.6	786.6	786.6	786.6
2.5°	792.7	783.9	786.6	784.6	779.8
5°	790.7	781.8	784.6	781.8	780.5
7.5°	785.9	777.1	779.8	777.1	776.4
10°	779.1	771.0	773.7	771.0	769.7
12.5°	771.7	762.9	766.3	762.9	761.5
15°	760.8	752.7	756.1	753.4	752.0
17.5°	750.0	741.2	744.6	741.9	739.8
20°	736.5	728.3	731.7	727.0	726.3
22.5°	721.5	713.4	716.8	710.0	710.0
25°	705.3	696.5	700.5	693.1	692.4
27.5°	686.3	678.2	681.6	674.1	673.4
30°	666.7	658.5	661.9	653.8	652.4
32.5°	644.3	636.9	639.6	631.4	630.8
35°	621.3	613.8	615.9	607.7	607.0
37.5°	595.5	588.8	590.1	581.3	580.6
40°	567.8	561.0	561.7	552.2	551.5
42.5°	537.3	530.5	529.8	520.3	519.7
45°	502.7	495.9	493.9	485.1	483.7
47.5°	464.8	458.0	453.9	446.5	445.8
50°	422.8	416.0	412.6	406.5	404.5
52.5°	377.4	370.6	367.9	362.5	360.4
55°	329.3	323.9	321.8	316.4	315.0
57.5°	283.2	279.1	278.5	273.0	272.4
60°	241.9	239.8	239.8	235.1	235.1
62.5°	206.6	205.3	206.6	203.9	203.3
65°	176.8	175.5	177.5	176.2	176.2
67.5°	151.8	151.8	153.1	152.4	152.4
70°	131.4	131.4	132.1	132.1	132.1
72.5°	113.1	112.5	114.5	114.5	113.8
75°	95.5	95.5	95.5	96.2	96.2
77.5°	77.9	77.9	78.6	78.6	77.9
80°	60.3	61.0	61.0	60.3	60.3
82.5°	42.7	43.4	43.4	43.4	42.7
85°	24.4	25.7	27.1	27.1	27.1
87.5°	8.8	11.5	13.6	13.6	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)