

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: P688806

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-050D-92765-1-UNV-STD-W-4\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2065.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

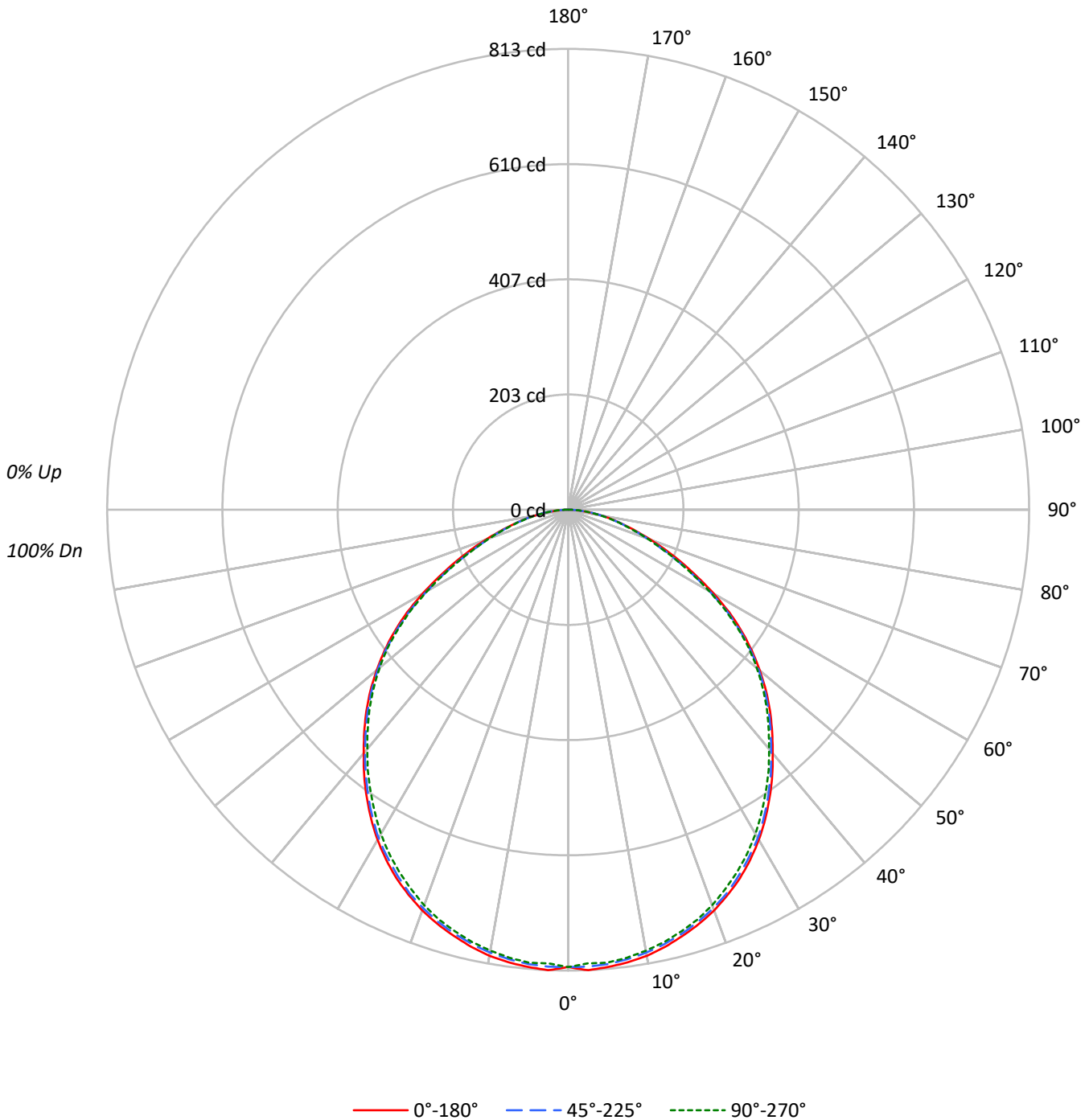
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85									85																			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72									72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61									61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53									53																			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46									46																			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40									40																			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36									36																			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32									32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29									29																			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26									26																			

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

	0°	45°	90°
0°	7767	7767	7767
5°	7825	7777	7750
10°	7812	7756	7722
15°	7760	7717	7676
20°	7708	7664	7607
25°	7616	7564	7489
30°	7476	7436	7343
35°	7280	7230	7139
40°	7048	7003	6923
45°	6855	6806	6739
50°	6608	6566	6503
55°	6267	6184	6137
60°	5705	5541	5515
65°	5025	4816	4800
70°	4340	4160	4160
75°	3735	3683	3630
80°	3293	3332	3254
85°	2574	2817	2817

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6855 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.3	3.7
10°-20°	218.0	10.6
20°-30°	326.5	15.8
30°-40°	382.9	18.5
40°-50°	384.1	18.6
50°-60°	328.0	15.9
60°-70°	213.2	10.3
70°-80°	106.7	5.2
80°-90°	29.3	1.4
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°	620.8	30.1
0°-40°	1003.7	48.6
0°-60°	1715.8	83.1
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	810	802	805	802	802	77
15°	779	771	774	772	770	220
25°	717	708	712	706	705	330
35°	619	613	615	608	607	387
45°	504	500	500	495	495	388
55°	373	372	368	366	366	332
65°	221	216	211	210	211	220
75°	100	100	99	98	98	108
85°	23	26	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°	806.8	806.8	806.8	806.8	806.8
2.5°	813.2	804.7	806.8	805.4	801.2
5°	809.7	801.9	804.7	801.9	801.9
7.5°	805.4	796.9	799.8	796.9	796.9
10°	799.1	790.6	793.4	790.6	789.9
12.5°	789.9	781.4	784.9	781.4	781.4
15°	778.6	770.8	774.3	771.5	770.1
17.5°	766.5	758.0	762.3	758.8	758.0
20°	752.4	743.9	748.1	742.5	742.5
22.5°	735.4	726.9	731.9	724.1	724.1
25°	717.0	708.5	712.1	705.7	705.0
27.5°	695.8	687.3	690.9	683.8	683.8
30°	672.5	664.7	668.9	661.2	660.5
32.5°	647.0	640.0	642.8	635.0	634.3
35°	619.4	613.1	615.2	608.1	607.4
37.5°	591.2	584.1	586.9	580.6	580.6
40°	560.8	556.5	557.2	552.3	550.9
42.5°	532.5	527.5	528.2	523.3	523.3
45°	503.5	499.9	499.9	495.0	495.0
47.5°	473.1	470.2	469.5	465.3	465.3
50°	441.2	439.1	438.4	434.9	434.2
52.5°	408.0	407.3	404.5	401.7	401.7
55°	373.4	372.0	368.4	366.3	365.6
57.5°	336.6	333.8	330.2	326.7	327.4
60°	296.3	293.5	287.8	286.4	286.4
62.5°	257.4	253.9	248.2	246.1	247.5
65°	220.6	216.4	211.4	210.0	210.7
67.5°	186.7	182.4	176.8	176.8	176.1
70°	154.2	152.0	147.8	147.8	147.8
72.5°	125.2	124.5	121.6	121.6	120.9
75°	100.4	100.4	99.0	98.3	97.6
77.5°	79.2	79.2	78.5	77.8	76.4
80°	59.4	60.8	60.1	59.4	58.7
82.5°	41.0	42.4	42.4	41.0	41.0
85°	23.3	25.5	25.5	25.5	25.5
87.5°	7.8	10.6	11.3	11.3	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)