

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: P688800

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4\_2700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688800  
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\_2700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.7 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

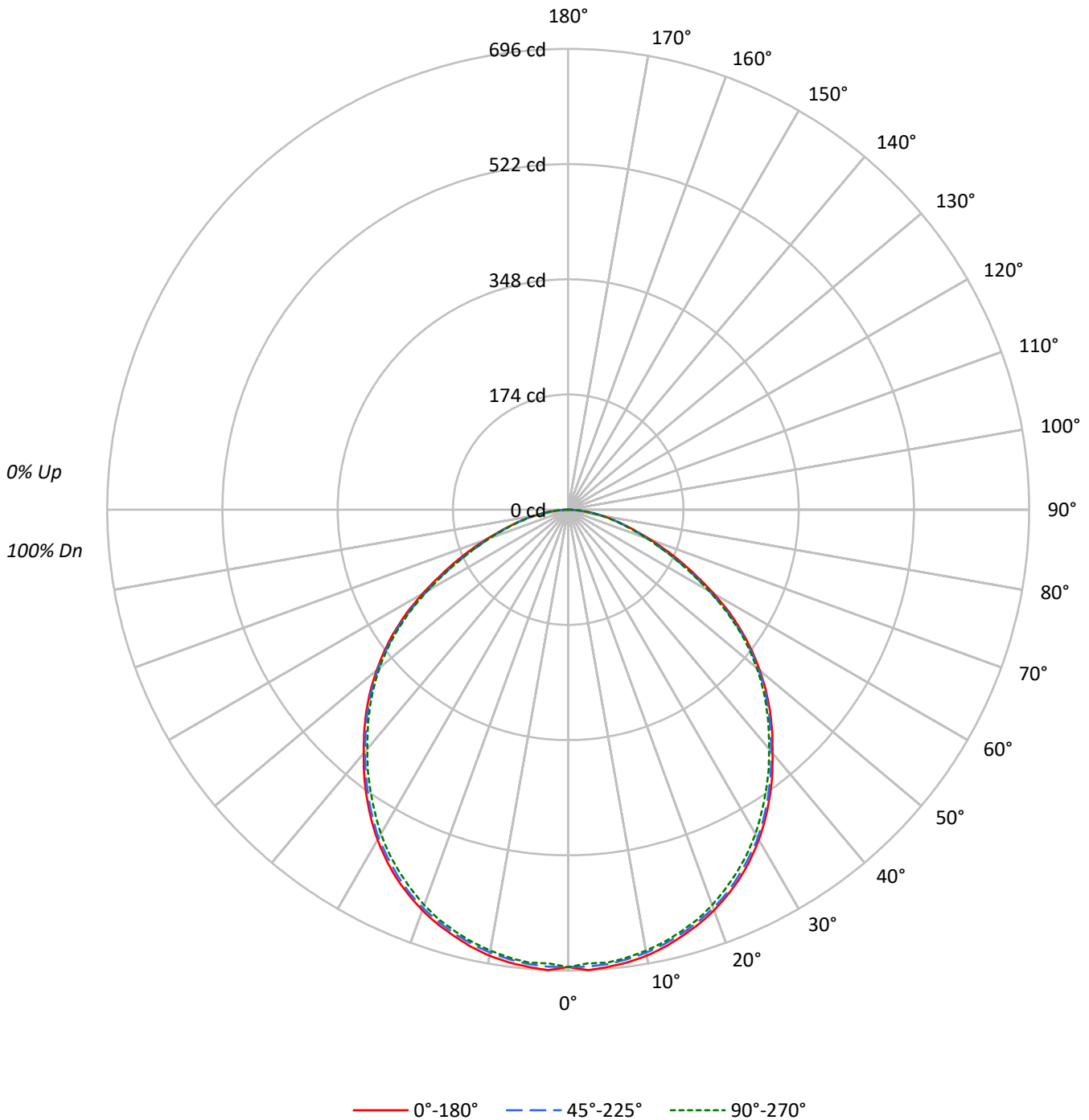
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°	45°	90°
0°	6650	6650	6650
5°	6698	6658	6633
10°	6687	6640	6610
15°	6643	6606	6570
20°	6599	6561	6512
25°	6520	6476	6411
30°	6400	6365	6285
35°	6233	6189	6111
40°	6032	5995	5927
45°	5868	5827	5769
50°	5657	5621	5567
55°	5364	5294	5254
60°	4883	4744	4721
65°	4303	4123	4110
70°	3716	3561	3561
75°	3199	3151	3106
80°	2816	2855	2783
85°	2209	2408	2408

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5868 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	3.7
10°-20°	186.6	10.6
20°-30°	279.5	15.8
30°-40°	327.8	18.5
40°-50°	328.8	18.6
50°-60°	280.8	15.9
60°-70°	182.5	10.3
70°-80°	91.4	5.2
80°-90°	25.1	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°	531.4	30.1
0°-40°	859.2	48.6
0°-60°	1468.8	83.1
0°-90°	1767.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	693	686	689	686	686	66
15°	666	660	663	660	659	188
25°	614	606	610	604	604	282
35°	530	525	527	521	520	331
45°	431	428	428	424	424	332
55°	320	318	315	314	313	284
65°	189	185	181	180	180	188
75°	86	86	85	84	84	93
85°	20	22	22	22	22	24
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	690.7	690.7	690.7	690.7	690.7
2.5°	696.1	688.9	690.7	689.5	685.8
5°	693.1	686.4	688.9	686.4	686.4
7.5°	689.5	682.2	684.6	682.2	682.2
10°	684.0	676.8	679.2	676.8	676.2
12.5°	676.2	668.9	671.9	668.9	668.9
15°	666.5	659.8	662.8	660.4	659.2
17.5°	656.2	648.9	652.5	649.5	648.9
20°	644.1	636.8	640.4	635.6	635.6
22.5°	629.5	622.3	626.5	619.9	619.9
25°	613.8	606.5	609.6	604.1	603.5
27.5°	595.6	588.4	591.4	585.4	585.4
30°	575.7	569.0	572.6	566.0	565.4
32.5°	553.9	547.8	550.2	543.6	543.0
35°	530.3	524.8	526.6	520.6	520.0
37.5°	506.1	500.0	502.4	497.0	497.0
40°	480.0	476.4	477.0	472.8	471.6
42.5°	455.8	451.6	452.2	447.9	447.9
45°	431.0	428.0	428.0	423.7	423.7
47.5°	405.0	402.5	401.9	398.3	398.3
50°	377.7	375.9	375.3	372.3	371.7
52.5°	349.3	348.7	346.2	343.8	343.8
55°	319.6	318.4	315.4	313.6	313.0
57.5°	288.1	285.7	282.7	279.7	280.3
60°	253.6	251.2	246.4	245.2	245.2
62.5°	220.3	217.3	212.5	210.7	211.9
65°	188.9	185.2	181.0	179.8	180.4
67.5°	159.8	156.2	151.3	151.3	150.7
70°	132.0	130.1	126.5	126.5	126.5
72.5°	107.1	106.5	104.1	104.1	103.5
75°	86.0	86.0	84.7	84.1	83.5
77.5°	67.8	67.8	67.2	66.6	65.4
80°	50.8	52.1	51.5	50.8	50.2
82.5°	35.1	36.3	36.3	35.1	35.1
85°	20.0	21.8	21.8	21.8	21.8
87.5°	6.7	9.1	9.7	9.7	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)