

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: P688802

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688802  
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\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1882.1 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

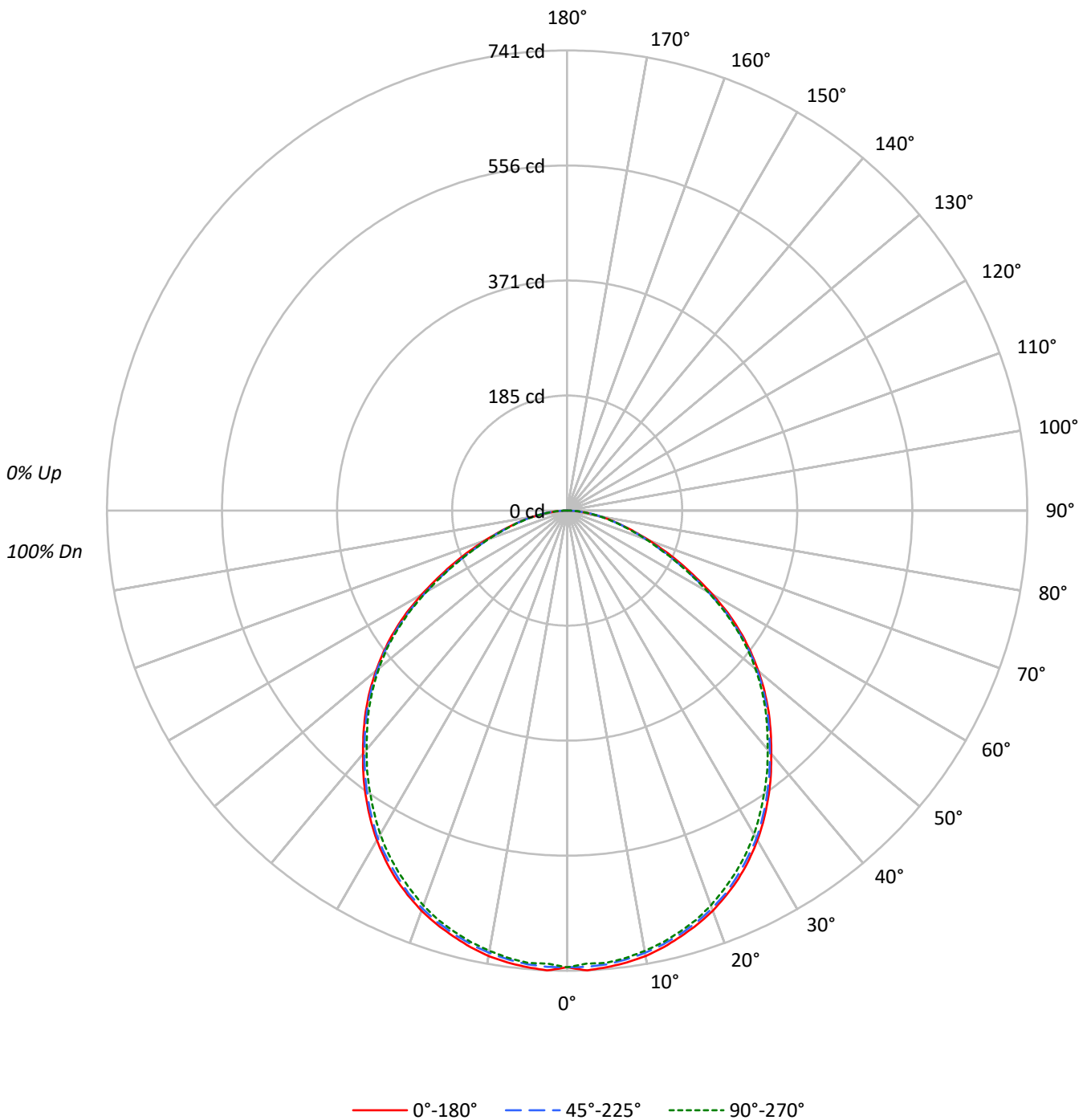
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7080	7080	7080
5°	7132	7088	7064
10°	7120	7069	7038
15°	7073	7034	6996
20°	7026	6986	6933
25°	6942	6894	6826
30°	6813	6778	6692
35°	6636	6590	6506
40°	6423	6383	6310
45°	6248	6204	6143
50°	6024	5985	5927
55°	5712	5636	5593
60°	5199	5051	5025
65°	4581	4390	4376
70°	3955	3792	3792
75°	3404	3355	3307
80°	2999	3038	2966
85°	2353	2563	2563

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6248 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.7
10°-20°	198.7	10.6
20°-30°	297.6	15.8
30°-40°	349.0	18.5
40°-50°	350.1	18.6
50°-60°	298.9	15.9
60°-70°	194.3	10.3
70°-80°	97.3	5.2
80°-90°	26.7	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°	565.8	30.1
0°-40°	914.8	48.6
0°-60°	1563.9	83.1
0°-90°	1882.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	738	731	733	731	731	70
15°	710	702	706	703	702	200
25°	654	646	649	643	643	301
35°	565	559	561	554	554	353
45°	459	456	456	451	451	354
55°	340	339	336	334	333	303
65°	201	197	193	191	192	200
75°	92	92	90	90	89	99
85°	21	23	23	23	23	25
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	735.4	735.4	735.4	735.4	735.4
2.5°	741.2	733.4	735.4	734.1	730.2
5°	738.0	730.9	733.4	730.9	730.9
7.5°	734.1	726.4	728.9	726.4	726.4
10°	728.3	720.6	723.1	720.6	719.9
12.5°	719.9	712.2	715.4	712.2	712.2
15°	709.6	702.5	705.7	703.2	701.9
17.5°	698.6	690.9	694.8	691.6	690.9
20°	685.8	678.0	681.9	676.7	676.7
22.5°	670.3	662.6	667.1	660.0	660.0
25°	653.5	645.8	649.0	643.2	642.6
27.5°	634.2	626.5	629.7	623.2	623.2
30°	612.9	605.8	609.7	602.6	602.0
32.5°	589.7	583.3	585.9	578.8	578.1
35°	564.6	558.8	560.7	554.3	553.6
37.5°	538.8	532.4	534.9	529.1	529.1
40°	511.1	507.2	507.9	503.4	502.1
42.5°	485.3	480.8	481.4	476.9	476.9
45°	458.9	455.7	455.7	451.2	451.2
47.5°	431.2	428.6	428.0	424.1	424.1
50°	402.2	400.2	399.6	396.4	395.7
52.5°	371.9	371.2	368.7	366.1	366.1
55°	340.3	339.0	335.8	333.9	333.2
57.5°	306.8	304.2	301.0	297.8	298.4
60°	270.0	267.5	262.3	261.0	261.0
62.5°	234.6	231.4	226.2	224.3	225.6
65°	201.1	197.2	192.7	191.4	192.1
67.5°	170.1	166.3	161.1	161.1	160.5
70°	140.5	138.6	134.7	134.7	134.7
72.5°	114.1	113.4	110.9	110.9	110.2
75°	91.5	91.5	90.2	89.6	88.9
77.5°	72.2	72.2	71.5	70.9	69.6
80°	54.1	55.4	54.8	54.1	53.5
82.5°	37.4	38.7	38.7	37.4	37.4
85°	21.3	23.2	23.2	23.2	23.2
87.5°	7.1	9.7	10.3	10.3	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)