

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: P688811

Luminaire Tested: SQ4R-PP3-050D-93050-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688811  
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-93050-1-UNV-STD-W-4\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 4500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2044.9 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

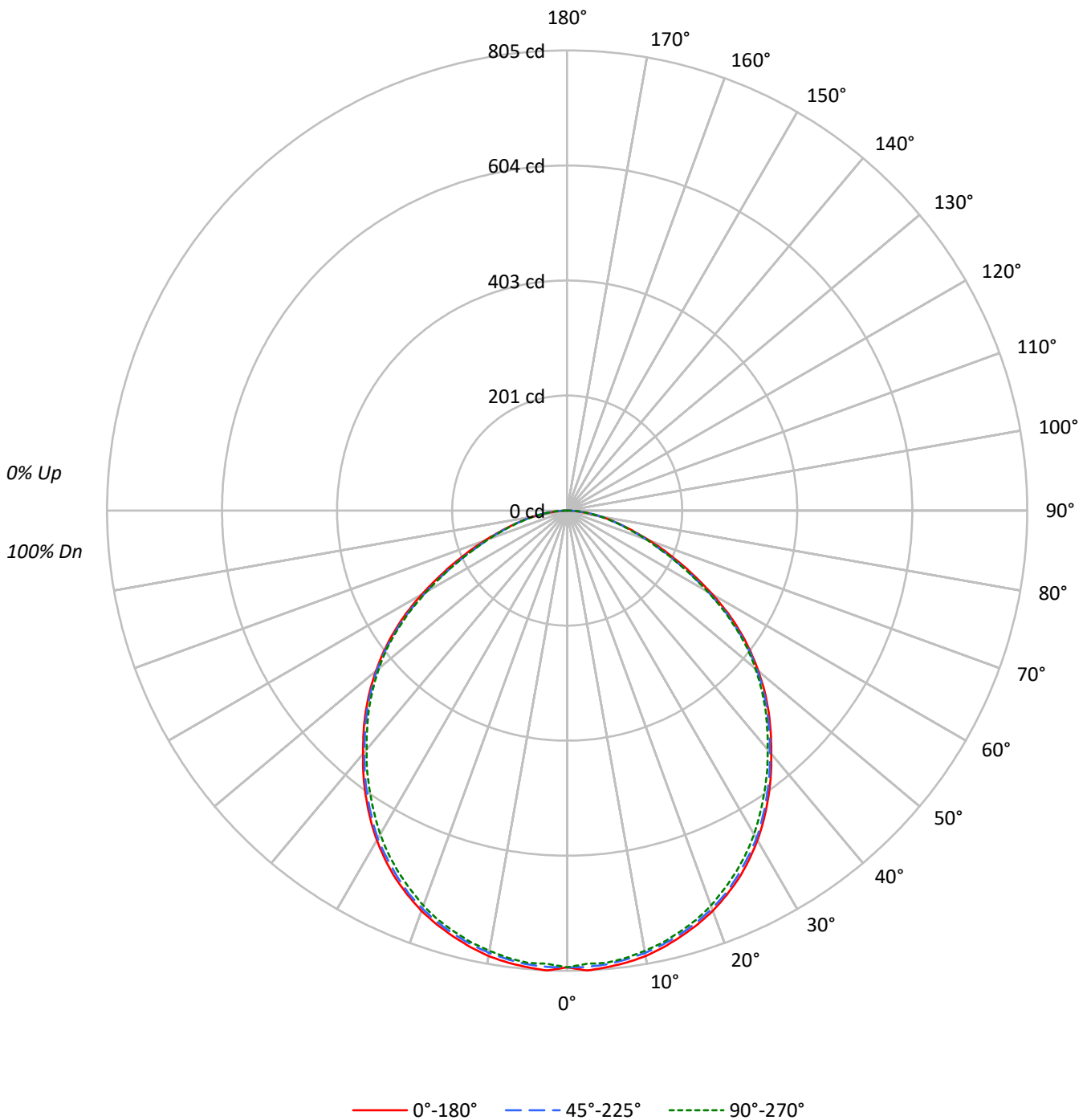
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7692	7692	7692
5°	7749	7701	7674
10°	7736	7681	7647
15°	7685	7643	7601
20°	7634	7591	7533
25°	7543	7491	7417
30°	7404	7365	7270
35°	7209	7160	7069
40°	6979	6935	6856
45°	6788	6741	6674
50°	6545	6503	6440
55°	6205	6123	6076
60°	5649	5488	5461
65°	4977	4770	4754
70°	4298	4121	4121
75°	3697	3645	3593
80°	3260	3299	3221
85°	2552	2784	2784

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6788 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.6	3.7
10°-20°	215.9	10.6
20°-30°	323.3	15.8
30°-40°	379.2	18.5
40°-50°	380.4	18.6
50°-60°	324.8	15.9
60°-70°	211.1	10.3
70°-80°	105.7	5.2
80°-90°	29.0	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°	614.8	30.1
0°-40°	994.0	48.6
0°-60°	1699.2	83.1
0°-90°	2044.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	802	794	797	794	794	76
15°	771	763	767	764	763	218
25°	710	702	705	699	698	327
35°	613	607	609	602	602	383
45°	499	495	495	490	490	384
55°	370	368	365	363	362	329
65°	218	214	209	208	209	218
75°	99	99	98	97	97	107
85°	23	25	25	25	25	27
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	799.0	799.0	799.0	799.0	799.0
2.5°	805.3	796.9	799.0	797.6	793.4
5°	801.8	794.1	796.9	794.1	794.1
7.5°	797.6	789.2	792.0	789.2	789.2
10°	791.3	782.9	785.7	782.9	782.2
12.5°	782.2	773.8	777.3	773.8	773.8
15°	771.0	763.3	766.8	764.0	762.6
17.5°	759.1	750.7	754.9	751.4	750.7
20°	745.1	736.7	740.9	735.3	735.3
22.5°	728.3	719.9	724.8	717.1	717.1
25°	710.1	701.7	705.2	698.9	698.2
27.5°	689.1	680.7	684.2	677.2	677.2
30°	666.0	658.2	662.5	654.7	654.0
32.5°	640.7	633.7	636.5	628.8	628.1
35°	613.4	607.1	609.2	602.2	601.5
37.5°	585.4	578.4	581.2	574.9	574.9
40°	555.3	551.1	551.8	546.9	545.5
42.5°	527.3	522.4	523.1	518.2	518.2
45°	498.6	495.1	495.1	490.2	490.2
47.5°	468.5	465.7	465.0	460.8	460.8
50°	437.0	434.9	434.2	430.7	430.0
52.5°	404.1	403.4	400.6	397.8	397.8
55°	369.7	368.3	364.8	362.7	362.0
57.5°	333.3	330.5	327.0	323.5	324.2
60°	293.4	290.6	285.0	283.6	283.6
62.5°	254.9	251.4	245.8	243.7	245.1
65°	218.5	214.3	209.4	208.0	208.7
67.5°	184.9	180.7	175.1	175.1	174.4
70°	152.7	150.6	146.4	146.4	146.4
72.5°	123.9	123.2	120.4	120.4	119.7
75°	99.4	99.4	98.0	97.3	96.6
77.5°	78.4	78.4	77.7	77.0	75.6
80°	58.8	60.2	59.5	58.8	58.1
82.5°	40.6	42.0	42.0	40.6	40.6
85°	23.1	25.2	25.2	25.2	25.2
87.5°	7.7	10.5	11.2	11.2	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)