

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: P688649

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-050D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2062.6 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

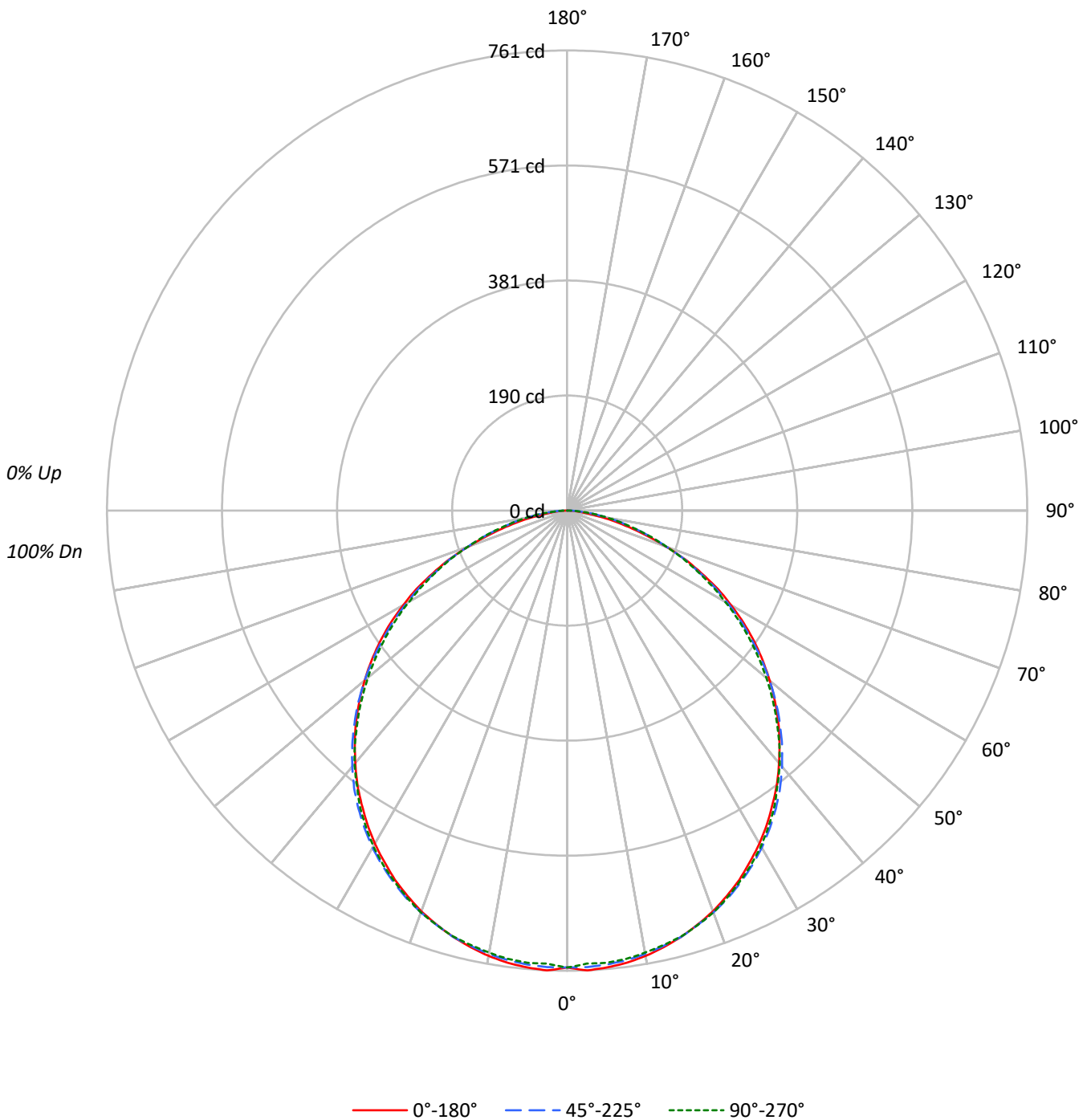
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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																												
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85																												
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																												
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60																												
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																												
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44																												
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																												
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																												
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																												
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																												
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																												

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

	0°	45°	90°
0°	7274	7274	7274
5°	7329	7282	7255
10°	7311	7277	7257
15°	7273	7273	7266
20°	7225	7246	7246
25°	7156	7208	7186
30°	7070	7156	7125
35°	6965	7072	7022
40°	6849	6946	6876
45°	6725	6772	6667
50°	6550	6550	6445
55°	6341	6259	6165
60°	6034	5913	5819
65°	5579	5467	5419
70°	4884	4923	4903
75°	3928	4345	4371
80°	2794	3687	3726
85°	1701	3093	3093

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6772 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	3.5
10°-20°	205.3	10.0
20°-30°	310.9	15.1
30°-40°	372.8	18.1
40°-50°	380.1	18.4
50°-60°	331.8	16.1
60°-70°	237.5	11.5
70°-80°	122.0	5.9
80°-90°	30.5	1.5
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°	587.8	28.5
0°-40°	960.6	46.6
0°-60°	1672.5	81.1
0°-90°	2062.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	758	751	754	751	751	72
15°	730	723	730	730	729	206
25°	674	669	679	676	676	310
35°	593	591	602	598	598	371
45°	494	492	497	491	490	380
55°	378	373	373	367	367	337
65°	245	239	240	238	238	243
75°	106	110	117	118	118	114
85°	15	24	28	29	28	21
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	755.6	755.6	755.6	755.6	755.6
2.5°	761.2	752.8	755.6	753.5	750.0
5°	758.4	750.7	753.5	751.4	750.7
7.5°	754.2	746.5	750.0	748.6	747.9
10°	747.9	740.2	744.4	743.0	742.3
12.5°	739.5	732.5	737.4	736.0	736.0
15°	729.7	723.4	729.7	729.7	729.0
17.5°	717.8	712.2	718.5	719.2	718.5
20°	705.2	698.9	707.3	706.6	707.3
22.5°	689.8	684.9	694.0	691.9	692.6
25°	673.7	668.8	678.6	676.5	676.5
27.5°	654.9	651.4	661.9	659.8	659.8
30°	636.0	632.5	643.7	640.9	640.9
32.5°	615.0	612.9	623.4	619.9	619.9
35°	592.6	591.2	601.7	597.5	597.5
37.5°	570.2	568.8	578.6	573.7	571.6
40°	545.0	544.3	552.7	547.1	547.1
42.5°	519.8	519.1	526.1	519.1	519.1
45°	493.9	492.5	497.4	491.1	489.7
47.5°	466.0	464.6	468.1	461.1	460.4
50°	437.3	435.9	437.3	431.0	430.3
52.5°	407.9	405.1	405.1	398.8	398.8
55°	377.8	372.9	372.9	367.3	367.3
57.5°	346.3	340.0	340.7	335.8	335.1
60°	313.4	306.4	307.1	302.9	302.2
62.5°	281.3	272.9	275.0	270.1	270.1
65°	244.9	239.3	240.0	237.9	237.9
67.5°	211.3	205.7	209.2	207.1	207.1
70°	173.5	170.0	174.9	174.9	174.2
72.5°	138.5	139.2	145.5	145.5	146.2
75°	105.6	110.5	116.8	117.5	117.5
77.5°	75.6	84.0	91.0	91.0	91.0
80°	50.4	60.2	66.5	67.9	67.2
82.5°	30.1	40.6	45.5	46.9	46.2
85°	15.4	23.8	28.0	28.7	28.0
87.5°	5.6	11.9	14.0	14.0	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)