

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: P688654

Luminaire Tested: SQ4R-PC3-050D-93050-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688654  
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-93050-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2066.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

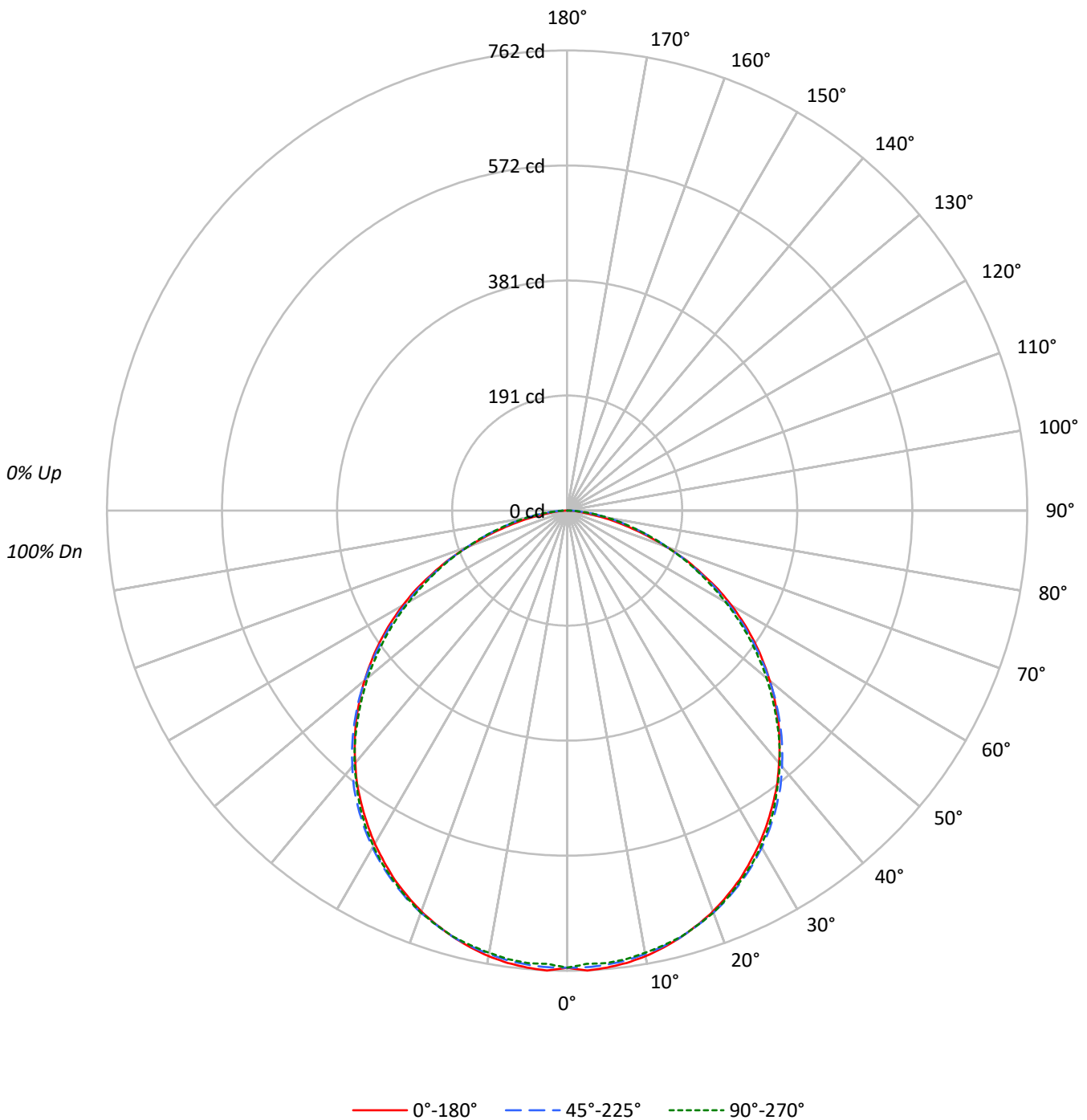
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
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	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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	7287	7287	7287
5°	7342	7294	7267
10°	7324	7290	7269
15°	7285	7285	7278
20°	7237	7259	7259
25°	7169	7221	7199
30°	7081	7167	7136
35°	6976	7083	7034
40°	6861	6957	6887
45°	6737	6784	6680
50°	6560	6560	6455
55°	6351	6269	6175
60°	6046	5925	5828
65°	5588	5476	5429
70°	4892	4932	4912
75°	3935	4352	4378
80°	2800	3692	3731
85°	1701	3093	3093

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6784 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	3.5
10°-20°	205.7	10.0
20°-30°	311.5	15.1
30°-40°	373.4	18.1
40°-50°	380.7	18.4
50°-60°	332.3	16.1
60°-70°	237.9	11.5
70°-80°	122.2	5.9
80°-90°	30.6	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°	588.8	28.5
0°-40°	962.2	46.6
0°-60°	1675.3	81.1
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	760	752	755	753	752	72
15°	731	725	731	731	730	206
25°	675	670	680	678	678	311
35°	594	592	603	598	598	371
45°	495	493	498	492	491	381
55°	378	374	374	368	368	338
65°	245	240	240	238	238	243
75°	106	111	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°	756.9	756.9	756.9	756.9	756.9
2.5°	762.5	754.1	756.9	754.8	751.3
5°	759.7	752.0	754.8	752.7	752.0
7.5°	755.5	747.8	751.3	749.9	749.2
10°	749.2	741.5	745.7	744.3	743.6
12.5°	740.8	733.7	738.7	737.3	737.3
15°	730.9	724.6	730.9	730.9	730.2
17.5°	719.0	713.4	719.7	720.4	719.7
20°	706.4	700.1	708.5	707.8	708.5
22.5°	691.0	686.1	695.2	693.1	693.8
25°	674.9	670.0	679.8	677.7	677.7
27.5°	656.0	652.5	663.0	660.9	660.9
30°	637.0	633.5	644.7	641.9	641.9
32.5°	616.0	613.9	624.4	620.9	620.9
35°	593.6	592.2	602.7	598.5	598.5
37.5°	571.2	569.8	579.6	574.7	572.6
40°	545.9	545.2	553.6	548.0	548.0
42.5°	520.7	520.0	527.0	520.0	520.0
45°	494.8	493.4	498.3	492.0	490.6
47.5°	466.7	465.3	468.8	461.8	461.1
50°	438.0	436.6	438.0	431.7	431.0
52.5°	408.6	405.8	405.8	399.5	399.5
55°	378.4	373.5	373.5	367.9	367.9
57.5°	346.9	340.6	341.3	336.4	335.7
60°	314.0	307.0	307.7	303.4	302.7
62.5°	281.7	273.3	275.4	270.5	270.5
65°	245.3	239.7	240.4	238.3	238.3
67.5°	211.6	206.0	209.5	207.4	207.4
70°	173.8	170.3	175.2	175.2	174.5
72.5°	138.8	139.5	145.8	145.8	146.5
75°	105.8	110.7	117.0	117.7	117.7
77.5°	75.7	84.1	91.1	91.1	91.1
80°	50.5	60.3	66.6	68.0	67.3
82.5°	30.1	40.6	45.6	47.0	46.3
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)