

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: P688469

Luminaire Tested: SQ4R-PC3-050D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688469  
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-940-1-UNV-STD-W-4  
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: 1715.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

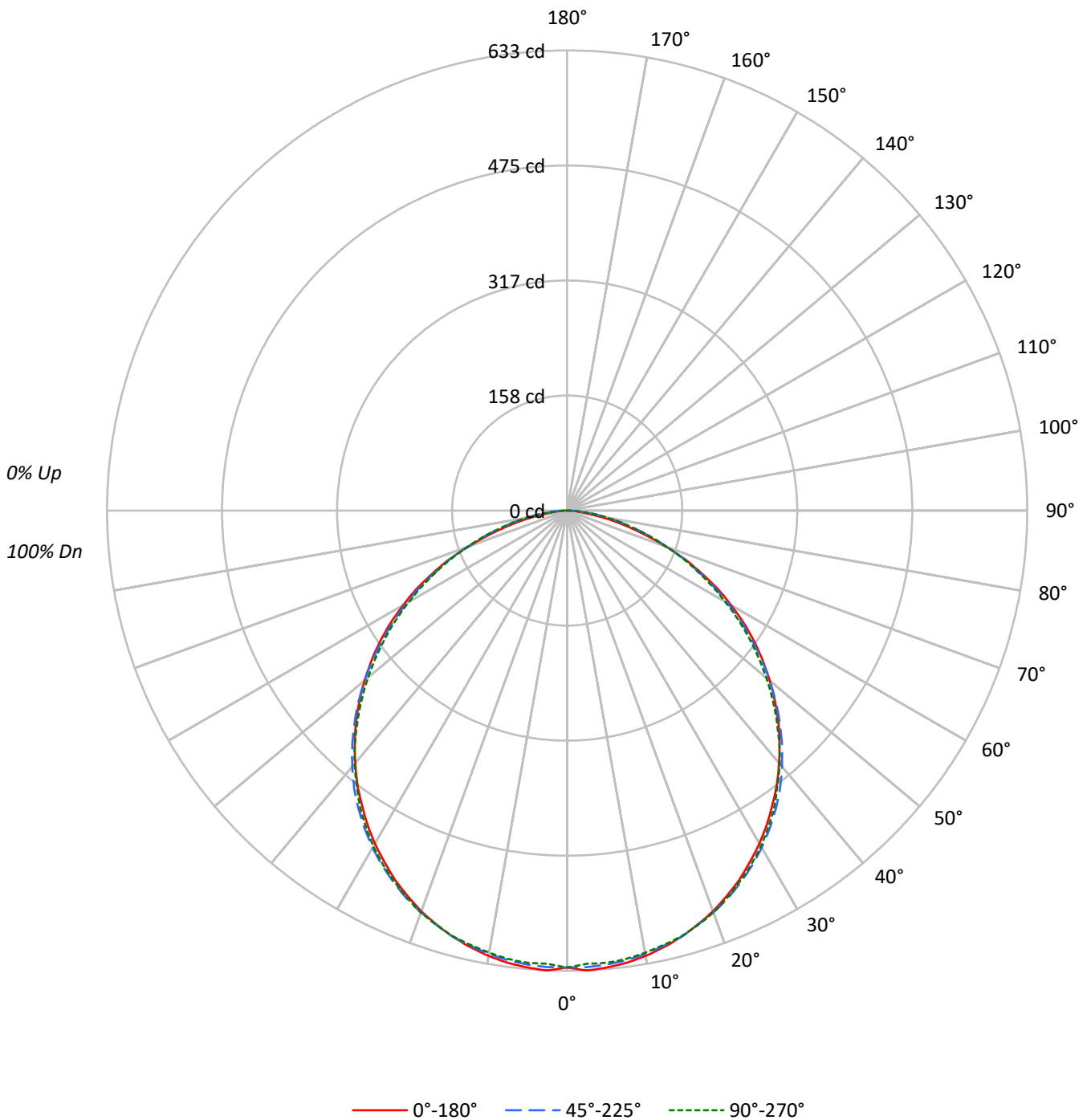
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	6051	6051	6051
5°	6097	6057	6035
10°	6082	6053	6037
15°	6050	6050	6044
20°	6010	6028	6028
25°	5953	5996	5978
30°	5881	5952	5926
35°	5793	5882	5841
40°	5698	5779	5720
45°	5594	5634	5547
50°	5447	5447	5360
55°	5275	5207	5128
60°	5020	4920	4841
65°	4640	4547	4508
70°	4062	4096	4079
75°	3270	3616	3638
80°	2323	3066	3099
85°	1414	2574	2574

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 5634 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	3.5
10°-20°	170.8	10.0
20°-30°	258.6	15.1
30°-40°	310.1	18.1
40°-50°	316.2	18.4
50°-60°	276.0	16.1
60°-70°	197.6	11.5
70°-80°	101.5	5.9
80°-90°	25.4	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°	488.9	28.5
0°-40°	799.1	46.6
0°-60°	1391.2	81.1
0°-90°	1715.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	631	624	627	625	624	60
15°	607	602	607	607	606	171
25°	560	556	564	563	563	258
35°	493	492	500	497	497	308
45°	411	410	414	409	407	316
55°	314	310	310	306	306	280
65°	204	199	200	198	198	202
75°	88	92	97	98	98	95
85°	13	20	23	24	23	17
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	628.5	628.5	628.5	628.5	628.5
2.5°	633.2	626.2	628.5	626.8	623.9
5°	630.9	624.5	626.8	625.0	624.5
7.5°	627.4	621.0	623.9	622.7	622.1
10°	622.1	615.7	619.2	618.1	617.5
12.5°	615.2	609.3	613.4	612.2	612.2
15°	607.0	601.8	607.0	607.0	606.4
17.5°	597.1	592.5	597.7	598.3	597.7
20°	586.6	581.4	588.4	587.8	588.4
22.5°	573.8	569.8	577.3	575.6	576.2
25°	560.4	556.4	564.5	562.8	562.8
27.5°	544.7	541.8	550.6	548.8	548.8
30°	529.0	526.1	535.4	533.1	533.1
32.5°	511.6	509.8	518.5	515.6	515.6
35°	492.9	491.8	500.5	497.0	497.0
37.5°	474.3	473.2	481.3	477.2	475.5
40°	453.4	452.8	459.8	455.1	455.1
42.5°	432.4	431.8	437.6	431.8	431.8
45°	410.9	409.7	413.8	408.6	407.4
47.5°	387.6	386.4	389.3	383.5	382.9
50°	363.7	362.6	363.7	358.5	357.9
52.5°	339.3	337.0	337.0	331.7	331.7
55°	314.3	310.2	310.2	305.5	305.5
57.5°	288.1	282.8	283.4	279.4	278.8
60°	260.7	254.9	255.5	252.0	251.4
62.5°	234.0	227.0	228.7	224.6	224.6
65°	203.7	199.0	199.6	197.9	197.9
67.5°	175.8	171.1	174.0	172.3	172.3
70°	144.3	141.4	145.5	145.5	144.9
72.5°	115.2	115.8	121.1	121.1	121.6
75°	87.9	92.0	97.2	97.8	97.8
77.5°	62.9	69.8	75.7	75.7	75.7
80°	41.9	50.1	55.3	56.5	55.9
82.5°	25.0	33.8	37.8	39.0	38.4
85°	12.8	19.8	23.3	23.9	23.3
87.5°	4.7	9.9	11.6	11.6	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)