

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

(formerly Eaton)

Brand: CORELITE

Report Number: P563670

Luminaire Tested: **SQ4-PP3-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563670  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-050D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

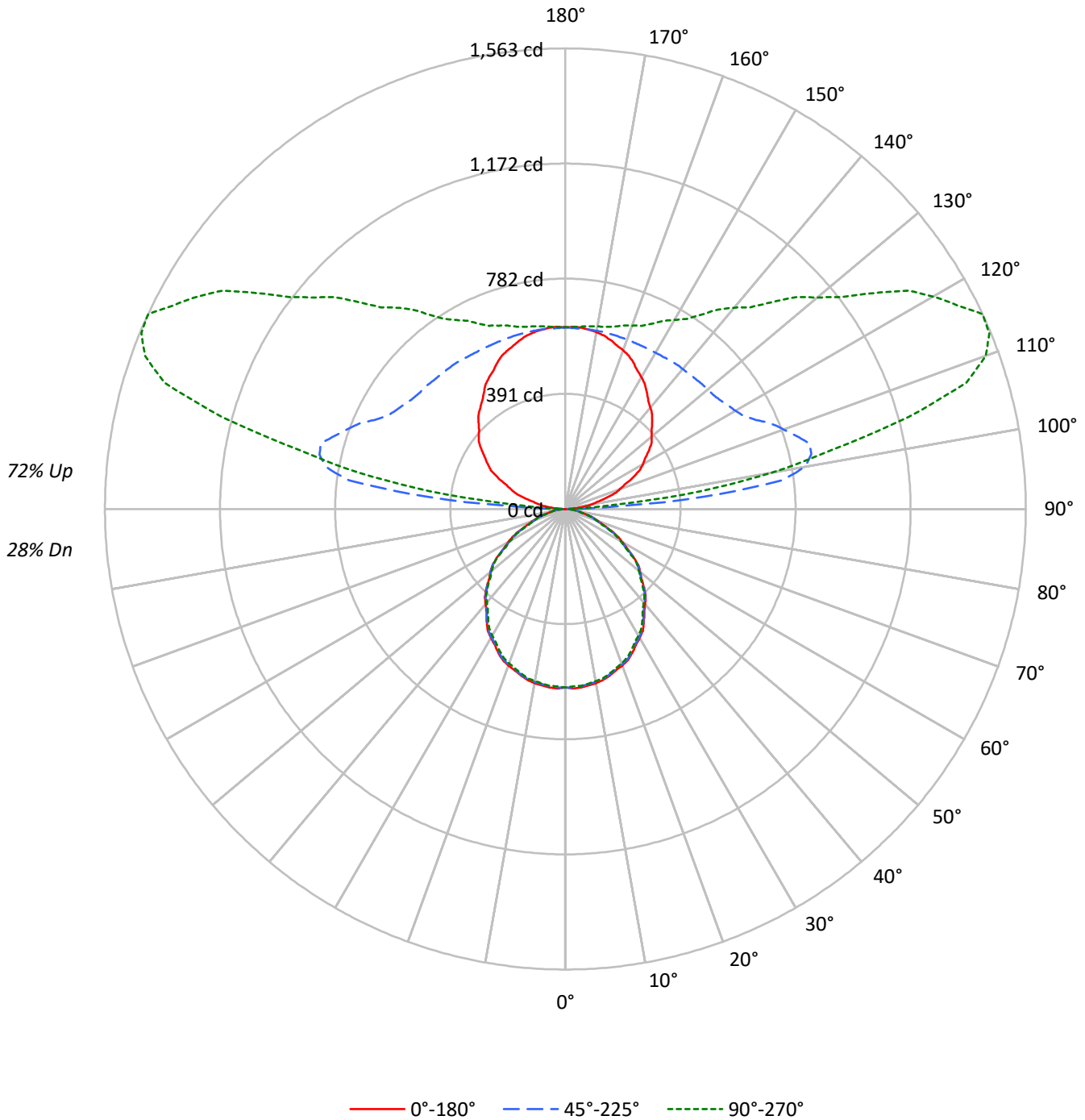
Lumens per Lamp: N/A  
Luminaire Lumens: 5530.9 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24				
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20				
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17				
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15				
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13				
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11				
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10				
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9				
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7				

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

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5599	5578
10°	5623	5584	5558
15°	5586	5555	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5042	4984
45°	4935	4899	4851
50°	4758	4727	4681
55°	4512	4451	4417
60°	4108	3989	3969
65°	3617	3467	3456
70°	3124	2994	2994
75°	2688	2652	2613
80°	2370	2396	2343
85°	1853	2022	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	1.0
10°-20°	163.6	3.0
20°-30°	245.1	4.4
30°-40°	287.5	5.2
40°-50°	288.4	5.2
50°-60°	246.0	4.4
60°-70°	160.4	2.9
70°-80°	80.5	1.5
80°-90°	23.7	0.4
90°-100°	288.3	5.2
100°-110°	776.6	14.0
110°-120°	815.0	14.7
120°-130°	661.3	12.0
130°-140°	518.7	9.4
140°-150°	398.2	7.2
150°-160°	286.3	5.2
160°-170°	174.9	3.2
170°-180°	59.0	1.1
0°-30°	466.1	8.4
0°-40°	753.5	13.6
0°-60°	1288.0	23.3
0°-90°	1552.6	28.1
90°-120°	1879.8	34.0
90°-150°	3458.0	62.5
90°-180°	3978.0	71.9
0°-180°	5530.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	608	602	604	602	602	58
15°	585	579	582	580	578	165
25°	539	532	535	530	530	248
35°	465	461	462	457	456	291
45°	378	376	376	372	372	291
55°	280	279	277	275	275	249
65°	166	163	159	158	158	165
75°	75	75	74	74	73	82
85°	18	19	19	19	19	21
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.1	606.1	606.1	606.1	606.1
2.5°	609.9	604.9	606.1	605.2	602.7
5°	608.2	602.5	604.5	602.3	602.3
7.5°	604.0	597.8	599.8	597.7	597.6
10°	600.2	594.0	596.0	593.8	593.3
12.5°	594.7	588.5	590.9	588.3	588.2
15°	584.8	579.1	581.6	579.5	578.4
17.5°	573.7	567.4	570.5	567.5	567.1
20°	565.2	558.9	562.0	557.7	557.7
22.5°	555.0	548.7	552.2	546.7	546.7
25°	538.6	532.4	534.9	530.1	529.6
27.5°	519.2	513.0	515.7	510.2	510.1
30°	505.1	499.4	502.5	496.6	496.1
32.5°	489.8	484.5	486.8	480.9	480.4
35°	465.3	460.6	462.1	456.8	456.3
37.5°	439.5	434.7	436.4	431.8	431.6
40°	421.2	418.1	418.6	414.8	413.8
42.5°	404.2	400.7	401.1	397.4	397.2
45°	378.2	375.6	375.5	371.8	371.8
47.5°	350.6	348.6	348.0	344.9	344.8
50°	331.5	329.9	329.3	326.7	326.1
52.5°	311.5	310.8	308.9	306.7	306.6
55°	280.5	279.4	276.7	275.1	274.6
57.5°	246.8	244.7	241.7	239.4	239.8
60°	222.6	220.5	216.2	215.1	215.1
62.5°	199.2	196.7	192.4	190.9	191.8
65°	165.7	162.6	158.8	157.8	158.3
67.5°	135.3	132.5	128.4	128.4	128.0
70°	115.8	114.2	111.0	111.0	111.0
72.5°	98.4	97.6	95.3	95.3	94.9
75°	75.4	75.4	74.4	73.8	73.3
77.5°	56.5	56.7	56.2	55.6	54.7
80°	44.6	45.7	45.1	44.6	44.1
82.5°	33.6	34.6	34.5	33.6	33.5
85°	17.5	19.1	19.1	19.1	19.1
87.5°	5.0	7.3	8.7	8.8	9.3
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)