

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: P563382

Luminaire Tested: **SQ4-PP3-075U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563382  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

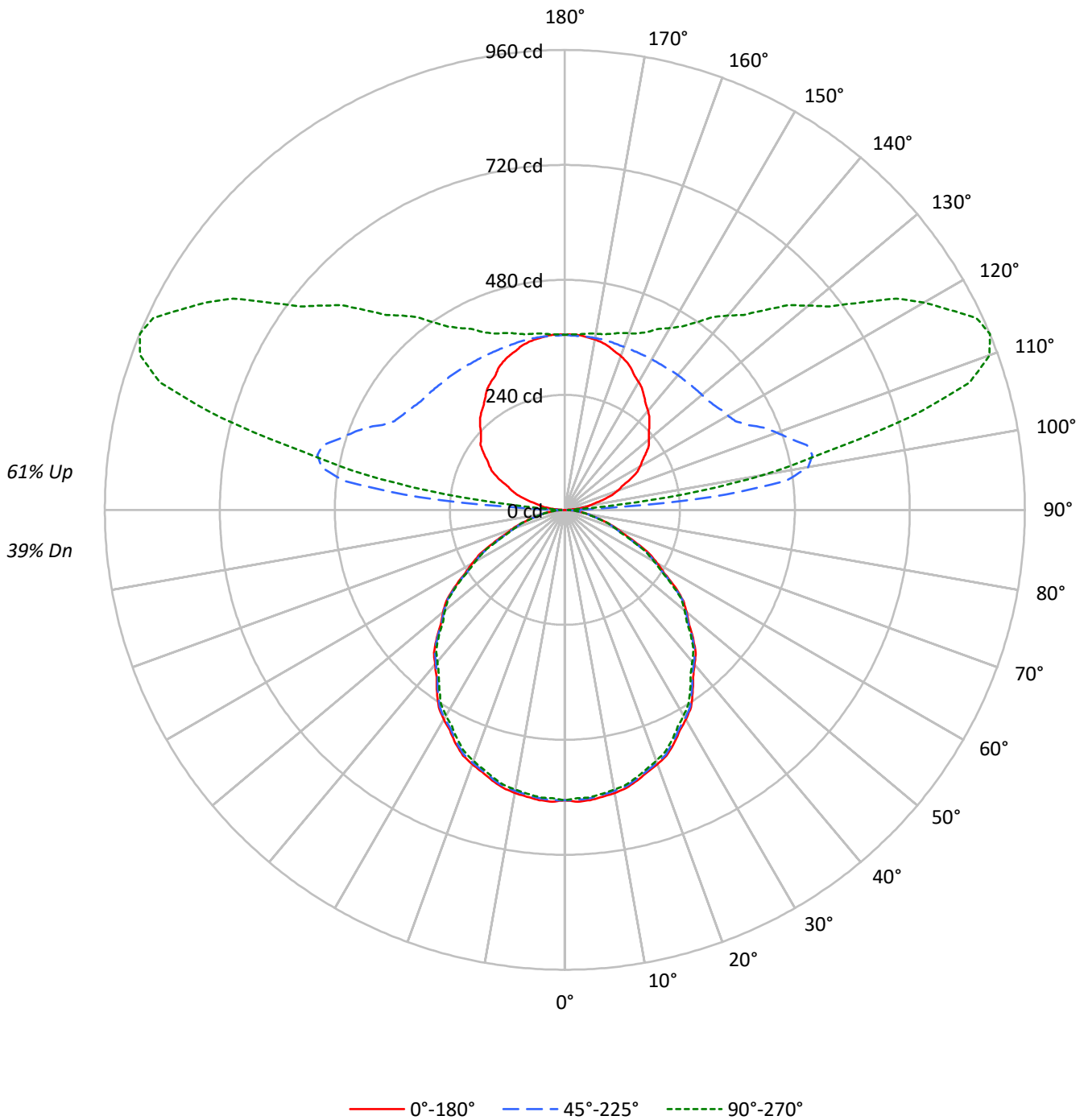
Lumens per Lamp: N/A  
Luminaire Lumens: 3934.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 34.7  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34		
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28		
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24		
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21		
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18		
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16		
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14		
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13		
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11		
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10		

**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	1.5
10°-20°	163.6	4.2
20°-30°	245.1	6.2
30°-40°	287.5	7.3
40°-50°	288.4	7.3
50°-60°	246.0	6.3
60°-70°	160.4	4.1
70°-80°	80.5	2.0
80°-90°	23.2	0.6
90°-100°	172.5	4.4
100°-110°	474.5	12.1
110°-120°	489.8	12.4
120°-130°	392.4	10.0
130°-140°	308.2	7.8
140°-150°	236.2	6.0
150°-160°	169.8	4.3
160°-170°	103.8	2.6
170°-180°	35.0	0.9
0°-30°	466.1	11.8
0°-40°	753.5	19.2
0°-60°	1288.0	32.7
0°-90°	1552.1	39.4
90°-120°	1136.8	28.9
90°-150°	2073.6	52.7
90°-180°	2382.0	60.5
0°-180°	3934.4	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°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	



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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°	4.8	6.9	7.9	8.2	8.6
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)