

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: P563574

Luminaire Tested: **SQ4-PP3-100U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

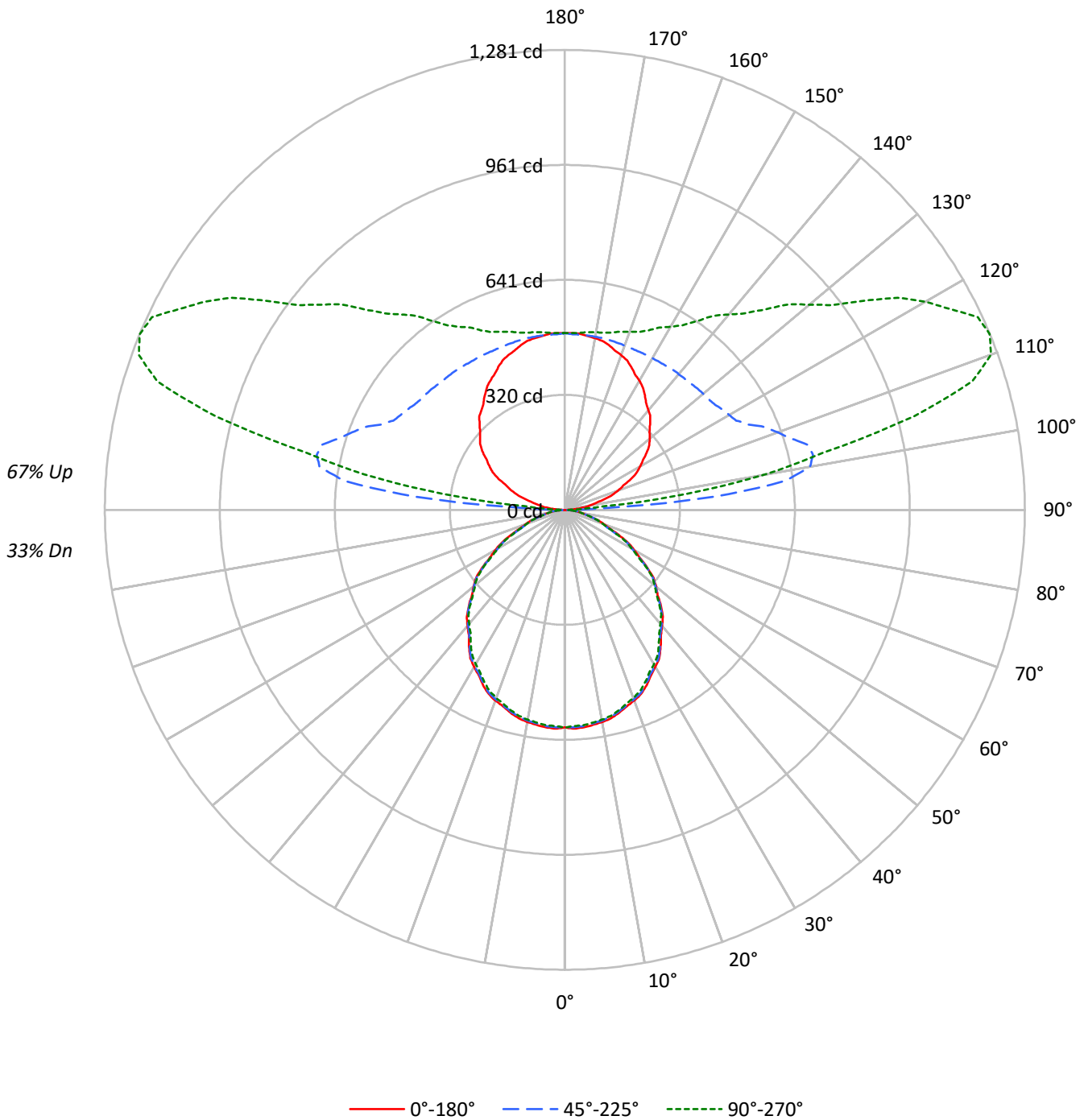
Lumens per Lamp: N/A
Luminaire Lumens: 4748.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

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	1.2
10°-20°	163.6	3.4
20°-30°	245.1	5.2
30°-40°	287.5	6.1
40°-50°	288.4	6.1
50°-60°	246.0	5.2
60°-70°	160.4	3.4
70°-80°	80.5	1.7
80°-90°	23.3	0.5
90°-100°	230.4	4.9
100°-110°	635.9	13.4
110°-120°	655.9	13.8
120°-130°	527.0	11.1
130°-140°	414.2	8.7
140°-150°	317.7	6.7
150°-160°	228.3	4.8
160°-170°	139.6	2.9
170°-180°	47.1	1.0
0°-30°	466.1	9.8
0°-40°	753.5	15.9
0°-60°	1288.0	27.1
0°-90°	1552.2	32.7
90°-120°	1522.1	32.1
90°-150°	2781.0	58.6
90°-180°	3196.0	67.3
0°-180°	4748.2	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	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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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	7.0	8.1	8.2	8.8
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)