

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: P563190

Luminaire Tested: **SQ4-PP3-025U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563190
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

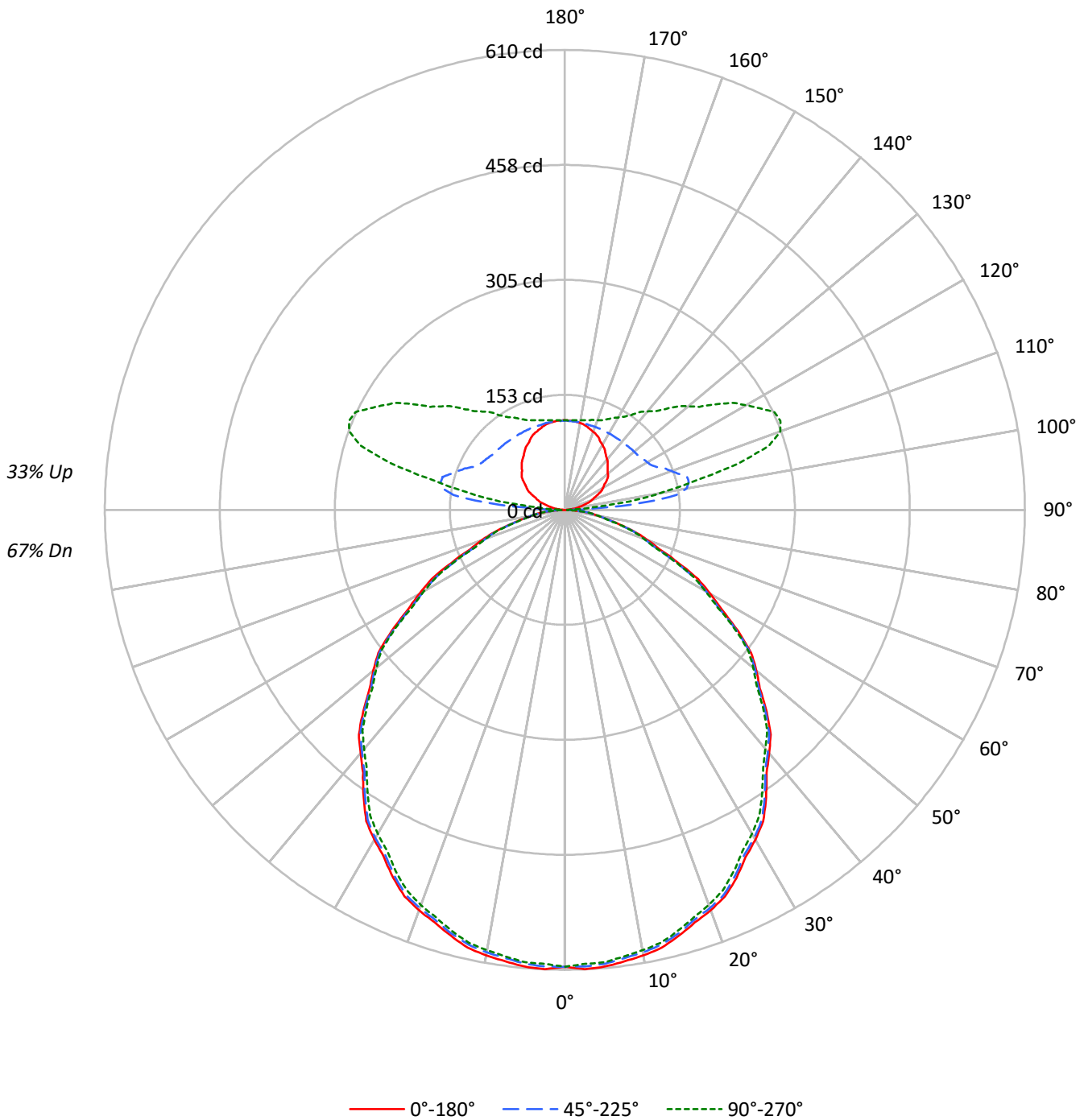
Lumens per Lamp: N/A
Luminaire Lumens: 2320.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

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	2.5
10°-20°	163.6	7.1
20°-30°	245.1	10.6
30°-40°	287.5	12.4
40°-50°	288.4	12.4
50°-60°	246.0	10.6
60°-70°	160.4	6.9
70°-80°	80.5	3.5
80°-90°	22.9	1.0
90°-100°	57.8	2.5
100°-110°	151.9	6.5
110°-120°	157.6	6.8
120°-130°	126.4	5.4
130°-140°	99.2	4.3
140°-150°	76.1	3.3
150°-160°	54.8	2.4
160°-170°	33.5	1.4
170°-180°	11.3	0.5
0°-30°	466.1	20.1
0°-40°	753.5	32.5
0°-60°	1288.0	55.5
0°-90°	1551.8	66.9
90°-120°	367.3	15.8
90°-150°	669.0	28.8
90°-180°	769.0	33.1
0°-180°	2320.5	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	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	



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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	6.8	8.0	7.4	7.8
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)