

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521351

Luminaire Tested: **SQ4-F-025U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521351  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-050D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

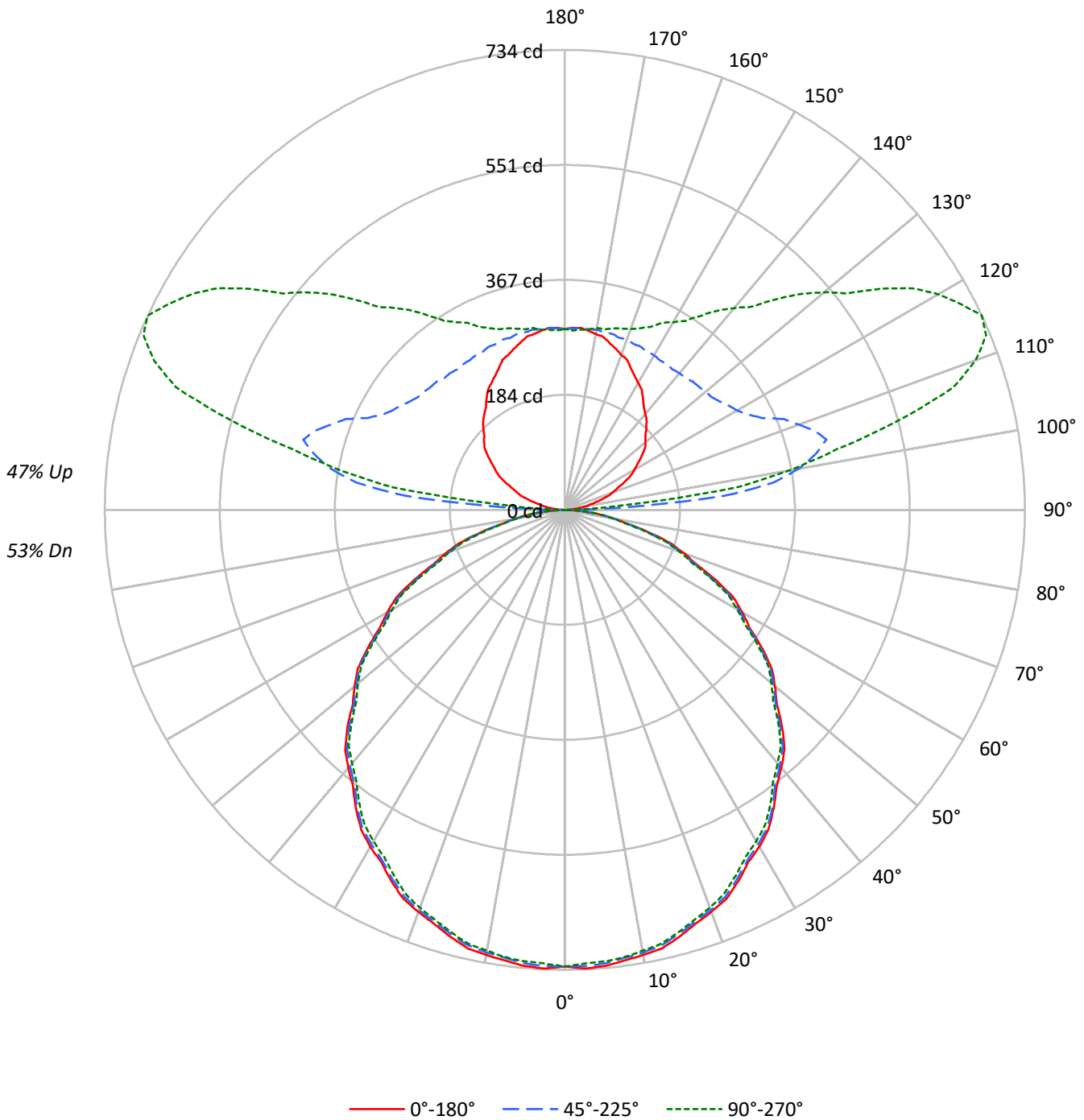
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3942.7 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.2  
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	84	80	74	72	69	62	61	59	52	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	39	35	35	32	30	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	29	26	23
6	63	50	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20
7	58	46	37	32	53	42	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	33	28	50	39	31	27	33	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

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

	0°	45°	90°
0°	6723	6723	6723
5°	6768	6730	6702
10°	6760	6722	6694
15°	6737	6699	6669
20°	6705	6675	6635
25°	6662	6621	6559
30°	6614	6571	6506
35°	6546	6511	6443
40°	6472	6423	6362
45°	6401	6335	6281
50°	6281	6238	6179
55°	6172	6106	6042
60°	6028	5934	5859
65°	5798	5643	5578
70°	5436	5298	5244
75°	4934	4787	4716
80°	4112	4166	4054
85°	2911	3451	3451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	1.7
10°-20°	197.5	5.0
20°-30°	298.5	7.6
30°-40°	359.5	9.1
40°-50°	373.4	9.5
50°-60°	338.7	8.6
60°-70°	256.8	6.5
70°-80°	143.2	3.6
80°-90°	37.9	1.0
90°-100°	148.7	3.8
100°-110°	359.5	9.1
110°-120°	383.4	9.7
120°-130°	310.5	7.9
130°-140°	240.4	6.1
140°-150°	183.4	4.7
150°-160°	132.8	3.4
160°-170°	81.8	2.1
170°-180°	27.7	0.7
0°-30°	565.0	14.3
0°-40°	924.5	23.4
0°-60°	1636.5	41.5
0°-90°	2074.5	52.6
90°-120°	891.6	22.6
90°-150°	1626.0	41.2
90°-180°	1868.0	47.4
0°-180°	3942.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	731	725	727	725	724	69
15°	705	697	701	699	698	199
25°	654	648	650	644	644	301
35°	581	575	578	571	572	363
45°	491	486	486	480	481	377
55°	384	383	380	376	376	343
65°	266	263	258	256	256	262
75°	138	136	134	132	132	146
85°	28	30	33	33	33	34
90°	0	0	0	0	0	2
95°	15	74	255	166	116	16
105°	57	99	432	559	552	61
115°	105	134	347	658	734	104
125°	150	172	301	523	615	134
135°	184	206	289	413	475	142
145°	218	234	284	351	378	136
155°	249	260	287	311	322	115
165°	276	280	291	295	300	78
175°	292	290	292	289	288	28
180°	288	288	288	288	288	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	732.8	727.2	728.7	727.8	724.7
5°	730.8	724.8	726.7	724.6	723.6
7.5°	725.7	719.5	721.6	719.6	720.2
10°	721.6	714.6	717.5	715.5	714.5
12.5°	716.7	709.0	711.8	709.0	709.6
15°	705.3	697.4	701.3	699.2	698.2
17.5°	692.7	685.7	689.6	686.4	686.4
20°	682.9	676.0	679.9	675.8	675.8
22.5°	672.3	664.6	668.5	663.6	663.6
25°	654.4	647.5	650.4	644.3	644.3
27.5°	633.9	626.7	630.6	624.5	624.5
30°	620.8	612.9	616.8	610.7	610.7
32.5°	604.6	599.0	601.3	595.2	595.2
35°	581.2	575.2	578.1	571.0	572.0
37.5°	555.3	551.1	551.2	544.9	546.1
40°	537.4	532.4	533.3	526.2	528.2
42.5°	518.7	514.5	514.6	509.1	510.3
45°	490.6	485.6	485.5	480.4	481.4
47.5°	458.8	456.2	455.8	449.9	450.9
50°	437.6	436.7	434.6	429.5	430.5
52.5°	416.5	415.5	413.4	408.4	409.4
55°	383.7	382.7	379.6	375.6	375.6
57.5°	349.5	348.5	345.2	341.2	341.2
60°	326.7	325.7	321.6	317.5	317.5
62.5°	303.1	301.3	297.2	293.9	293.9
65°	265.6	262.7	258.5	255.5	255.5
67.5°	226.8	224.8	221.7	218.8	218.8
70°	201.5	199.5	196.4	194.4	194.4
72.5°	176.3	174.3	171.2	169.2	169.2
75°	138.4	136.4	134.3	132.3	132.3
77.5°	101.0	100.4	100.4	98.3	98.3
80°	77.4	78.3	78.4	76.3	76.3
82.5°	55.4	57.2	58.0	57.6	57.6
85°	27.5	30.5	32.6	32.6	32.6
87.5°	8.1	10.5	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.3	94.8	46.1	31.3
95°	14.7	74.4	254.8	165.7	116.1
97.5°	26.0	82.4	335.6	323.3	277.6
100°	34.8	87.4	380.1	401.3	363.6
102.5°	43.1	91.9	409.5	466.1	443.8
105°	57.4	99.3	432.1	559.0	551.8
107.5°	71.5	108.0	418.7	633.5	650.4
110°	81.3	115.3	397.2	665.6	697.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.1	122.7	378.2	673.5	727.6
115°	105.1	134.4	347.1	658.1	734.0
117.5°	119.0	146.7	328.9	622.7	711.6
120°	128.3	154.0	317.2	594.9	688.1
122.5°	138.1	161.9	309.8	566.5	658.3
125°	149.7	172.4	301.3	523.4	614.8
127.5°	161.2	182.6	295.3	486.8	567.1
130°	168.1	189.0	293.3	461.4	540.2
132.5°	174.4	196.3	290.4	443.0	509.9
135°	183.9	205.5	289.1	412.7	474.8
137.5°	193.0	214.6	284.8	392.2	439.0
140°	199.8	219.6	284.8	377.4	420.5
142.5°	206.7	226.4	282.3	364.6	400.9
145°	217.6	233.7	283.6	350.8	378.3
147.5°	227.7	243.4	282.8	334.9	357.6
150°	234.1	247.8	284.8	328.0	345.9
152.5°	240.9	254.2	284.3	320.6	336.6
155°	249.3	260.1	287.2	310.7	322.1
157.5°	259.5	268.7	286.6	306.9	313.6
160°	263.4	271.2	289.1	302.0	306.8
162.5°	269.8	276.6	288.1	300.5	303.4
165°	275.6	279.8	290.9	295.3	299.5
167.5°	282.8	285.6	290.2	294.9	295.1
170°	284.8	286.6	292.1	291.6	294.6
172.5°	288.2	289.5	290.7	292.0	290.2
175°	291.5	290.3	291.5	289.0	288.5
177.5°	290.9	290.9	289.9	288.9	286.5
180°	288.5	288.5	288.5	288.5	288.5

(END OF REPORT)