

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: P562197

Luminaire Tested: **SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562197  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

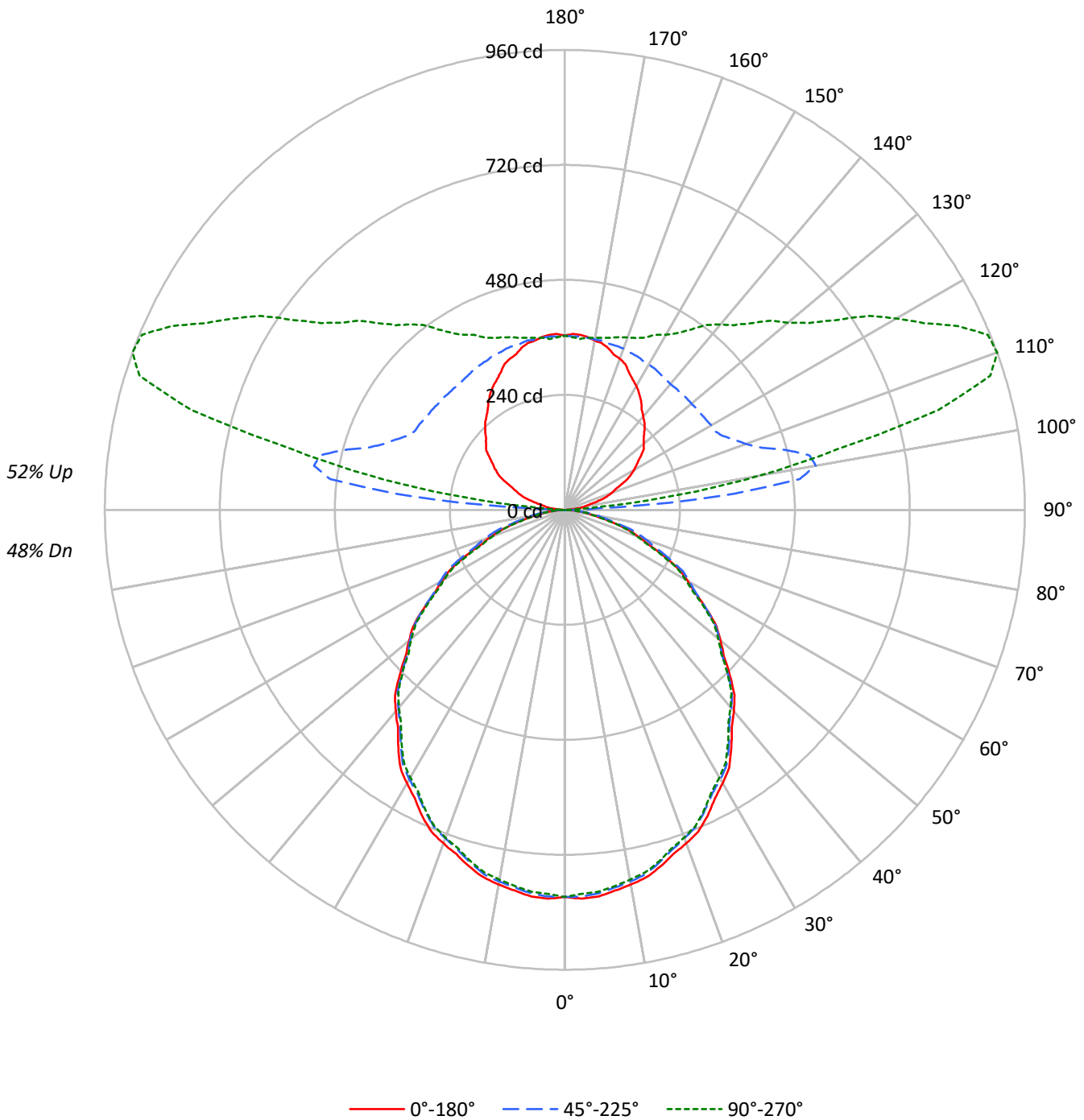
Lumens per Lamp: N/A  
Luminaire Lumens: 4314.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 36.5  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	7454	7454	7454
5°	7502	7442	7410
10°	7442	7382	7342
15°	7363	7282	7254
20°	7275	7163	7150
25°	7174	7044	7021
30°	7022	6916	6870
35°	6823	6726	6687
40°	6610	6507	6481
45°	6353	6269	6241
50°	6089	6038	5997
55°	5805	5805	5714
60°	5451	5556	5359
65°	4988	5237	4864
70°	4397	4821	4281
75°	3754	4313	3654
80°	2912	3629	2949
85°	1884	2784	2488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	1.8
10°-20°	214.8	5.0
20°-30°	318.6	7.4
30°-40°	372.8	8.6
40°-50°	371.1	8.6
50°-60°	320.5	7.4
60°-70°	230.7	5.3
70°-80°	121.0	2.8
80°-90°	30.0	0.7
90°-100°	165.7	3.8
100°-110°	471.4	10.9
110°-120°	451.7	10.5
120°-130°	357.5	8.3
130°-140°	286.9	6.7
140°-150°	224.6	5.2
150°-160°	164.4	3.8
160°-170°	101.8	2.4
170°-180°	34.5	0.8
0°-30°	609.5	14.1
0°-40°	982.3	22.8
0°-60°	1673.9	38.8
0°-90°	2055.5	47.6
90°-120°	1088.8	25.2
90°-150°	1957.8	45.4
90°-180°	2259.0	52.4
0°-180°	4314.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	810	801	804	802	800	77
15°	771	761	762	761	760	217
25°	705	693	692	688	690	324
35°	606	597	597	592	594	379
45°	487	483	480	479	478	376
55°	361	360	361	356	355	322
65°	228	236	240	230	223	226
75°	105	115	121	113	102	113
85°	18	23	26	25	24	23
90°	0	0	0	0	0	1
95°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.9	807.9	807.9	807.9	807.9
2.5°	812.5	805.8	807.9	806.1	802.2
5°	810.0	801.0	803.6	801.5	800.1
7.5°	801.8	793.4	795.4	793.1	792.2
10°	794.4	786.0	788.0	785.1	783.7
12.5°	785.8	776.9	778.9	776.0	775.2
15°	770.9	761.2	762.4	760.9	759.5
17.5°	753.5	743.6	743.8	741.6	741.3
20°	741.0	730.6	729.6	726.8	728.2
22.5°	727.3	716.3	715.4	711.4	713.4
25°	704.7	692.9	691.9	687.7	689.7
27.5°	678.5	666.8	666.8	660.9	663.1
30°	659.1	648.0	649.2	642.1	644.9
32.5°	638.6	628.6	629.2	622.2	625.0
35°	605.8	597.4	597.2	591.6	593.7
37.5°	572.2	564.8	563.6	560.4	560.9
40°	548.8	542.5	540.3	538.1	538.1
42.5°	524.3	518.6	516.3	514.8	514.2
45°	486.9	482.7	480.5	479.0	478.3
47.5°	449.9	446.0	444.0	443.0	442.3
50°	424.2	421.5	420.7	418.5	417.8
52.5°	398.6	396.9	396.2	393.5	392.8
55°	360.9	360.2	360.9	355.9	355.2
57.5°	321.6	322.7	325.0	318.3	316.6
60°	295.4	298.2	301.1	293.2	290.4
62.5°	268.6	273.1	277.2	268.1	264.2
65°	228.5	235.5	239.9	230.5	222.8
67.5°	189.8	198.4	203.7	193.6	184.9
70°	163.0	172.7	178.7	168.5	158.7
72.5°	139.7	150.5	155.3	145.7	136.0
75°	105.3	115.1	121.0	112.9	102.5
77.5°	74.7	83.9	88.8	81.8	73.2
80°	54.8	64.6	68.3	62.5	55.5
82.5°	38.9	46.9	49.5	46.0	41.3
85°	17.8	23.4	26.3	24.9	23.5
87.5°	4.6	8.5	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.5	146.7	382.3	835.7	955.2
115°	136.2	164.6	364.3	771.7	906.2
117.5°	153.5	180.1	353.6	701.8	844.3
120°	167.3	189.6	352.5	661.9	798.4
122.5°	178.3	200.6	349.8	626.8	753.6
125°	192.2	213.1	347.7	577.0	689.9
127.5°	207.2	226.8	346.6	547.2	640.2
130°	215.0	234.6	344.9	526.5	607.6
132.5°	223.3	242.3	344.9	510.3	584.9
135°	235.0	254.6	343.5	487.4	550.9
137.5°	246.1	265.1	343.4	468.0	522.9
140°	254.4	274.0	342.9	451.9	504.6
142.5°	263.8	280.1	344.5	439.0	486.4
145°	277.2	291.4	346.3	421.8	459.7
147.5°	288.7	302.4	349.4	404.4	437.1
150°	298.6	308.1	350.5	398.7	421.7
152.5°	306.4	316.4	351.6	390.9	412.3
155°	316.6	324.0	354.6	381.2	396.8
157.5°	329.3	333.8	355.3	376.8	387.9
160°	335.9	339.3	358.1	373.5	382.9
162.5°	339.8	343.7	358.6	370.7	378.0
165°	349.8	351.1	358.8	366.5	371.9
167.5°	356.5	355.3	361.9	365.4	367.6
170°	358.8	358.1	360.8	361.6	364.3
172.5°	363.7	361.4	362.5	360.5	362.6
175°	366.4	364.3	362.9	360.8	358.1
177.5°	367.5	364.2	362.5	360.3	360.8
180°	363.6	363.6	363.6	363.6	363.6

(END OF REPORT)