

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: P564062

Luminaire Tested: **SQ4-PR1-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564062  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-050D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

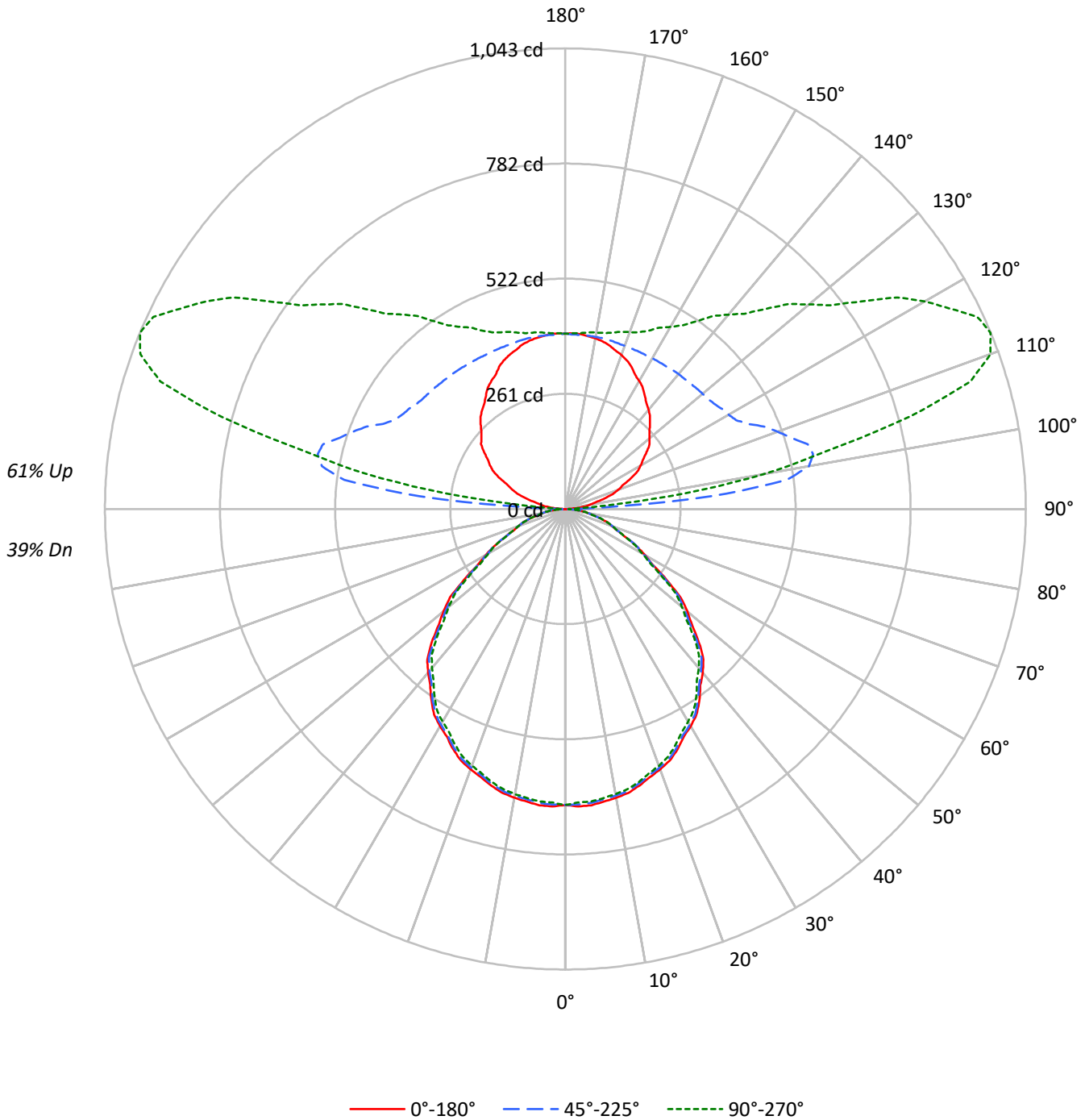
Lumens per Lamp: N/A  
Luminaire Lumens: 4264.3 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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				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	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	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	6182	6182	6182
5°	6239	6190	6158
10°	6219	6175	6143
15°	6191	6152	6120
20°	6160	6121	6075
25°	6116	6075	6005
30°	6050	6008	5921
35°	5962	5910	5825
40°	5826	5763	5658
45°	5588	5491	5377
50°	5170	5045	4946
55°	4512	4411	4317
60°	3803	3770	3696
65°	3288	3301	3277
70°	3021	3037	3037
75°	2902	2902	2923
80°	2731	2758	2731
85°	2202	2445	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	1.5
10°-20°	181.3	4.3
20°-30°	273.5	6.4
30°-40°	325.8	7.6
40°-50°	321.2	7.5
50°-60°	245.5	5.8
60°-70°	151.9	3.6
70°-80°	86.3	2.0
80°-90°	27.3	0.6
90°-100°	187.4	4.4
100°-110°	515.5	12.1
110°-120°	532.1	12.5
120°-130°	426.3	10.0
130°-140°	334.8	7.9
140°-150°	256.6	6.0
150°-160°	184.5	4.3
160°-170°	112.8	2.6
170°-180°	38.0	0.9
0°-30°	518.1	12.2
0°-40°	844.0	19.8
0°-60°	1410.7	33.1
0°-90°	1676.2	39.3
90°-120°	1235.0	29.0
90°-150°	2252.7	52.8
90°-180°	2588.0	60.7
0°-180°	4264.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	674	666	668	666	665	64
15°	648	641	644	642	641	183
25°	601	594	597	590	590	276
35°	529	523	525	518	517	330
45°	428	423	421	413	412	328
55°	280	276	274	270	268	251
65°	151	150	151	150	150	153
75°	81	81	81	82	82	86
85°	21	22	23	23	23	24
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	674.3	668.4	670.1	668.7	665.5
5°	673.6	666.2	668.4	666.0	664.9
7.5°	668.4	661.2	663.3	661.0	660.3
10°	663.8	657.0	659.1	656.8	655.7
12.5°	658.7	651.5	654.1	651.3	650.1
15°	648.2	641.4	644.1	641.8	640.7
17.5°	636.6	629.4	632.1	629.4	628.0
20°	627.4	620.6	623.4	619.3	618.7
22.5°	617.2	610.5	613.2	607.8	607.7
25°	600.8	593.5	596.8	590.4	589.9
27.5°	581.3	574.6	577.3	570.8	570.1
30°	567.9	561.2	563.9	557.0	555.8
32.5°	552.7	546.4	548.7	541.7	541.1
35°	529.3	523.1	524.7	517.7	517.2
37.5°	502.6	497.0	497.9	490.2	489.7
40°	483.7	478.0	478.5	470.4	469.8
42.5°	462.9	457.3	456.8	448.7	448.1
45°	428.3	422.6	420.8	413.2	412.1
47.5°	388.8	383.1	379.7	373.5	372.7
50°	360.2	354.5	351.5	346.3	344.6
52.5°	329.2	323.6	321.0	316.3	314.6
55°	280.5	276.0	274.2	269.5	268.4
57.5°	234.2	231.2	230.6	226.1	225.7
60°	206.1	204.4	204.3	200.3	200.3
62.5°	182.0	180.8	181.7	179.0	178.6
65°	150.6	149.5	151.2	150.1	150.1
67.5°	125.8	125.8	126.9	126.4	126.4
70°	112.0	112.0	112.6	112.6	112.6
72.5°	99.5	99.1	100.5	100.5	100.1
75°	81.4	81.4	81.4	82.0	82.0
77.5°	63.4	63.5	64.0	63.8	63.4
80°	51.4	51.9	51.9	51.4	51.4
82.5°	39.4	39.9	39.9	39.8	39.4
85°	20.8	21.9	23.1	23.1	23.1
87.5°	6.2	8.5	10.4	10.7	10.3
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)