

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: P564922

Luminaire Tested: **SQ4-PW1-100U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564922  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

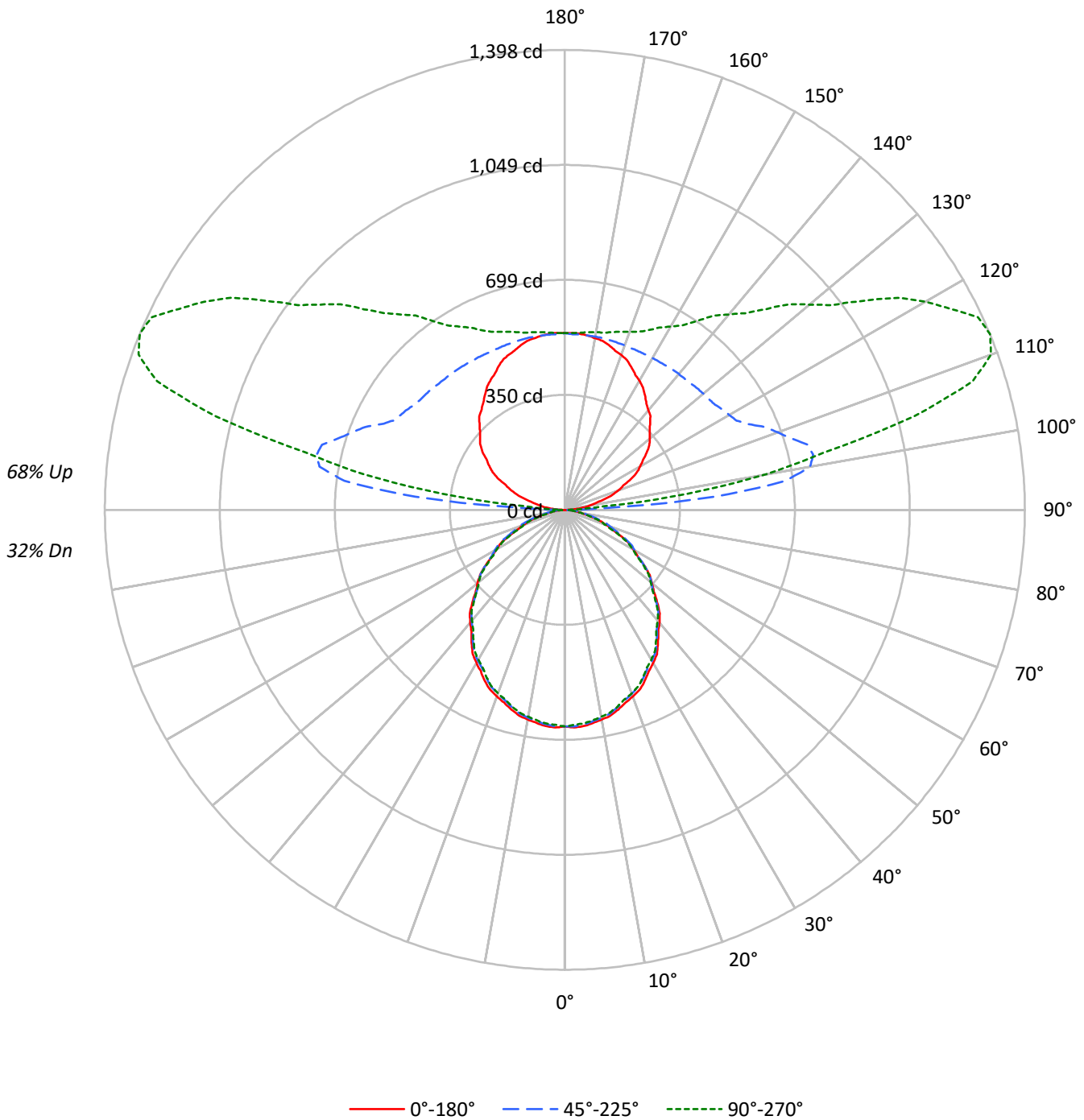
Lumens per Lamp: N/A  
Luminaire Lumens: 5166.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5846	5740	5722
30°	5723	5637	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4922	4887
55°	4731	4731	4657
60°	4443	4528	4368
65°	4065	4268	3965
70°	3582	3928	3491
75°	3062	3515	2977
80°	2375	2959	2407
85°	1535	2276	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.2
10°-20°	175.0	3.4
20°-30°	259.7	5.0
30°-40°	303.8	5.9
40°-50°	302.5	5.9
50°-60°	261.2	5.1
60°-70°	188.0	3.6
70°-80°	98.6	1.9
80°-90°	25.6	0.5
90°-100°	251.5	4.9
100°-110°	694.4	13.4
110°-120°	716.1	13.9
120°-130°	575.5	11.1
130°-140°	452.3	8.8
140°-150°	346.9	6.7
150°-160°	249.3	4.8
160°-170°	152.5	3.0
170°-180°	51.4	1.0
0°-30°	496.7	9.6
0°-40°	800.5	15.5
0°-60°	1364.2	26.4
0°-90°	1676.4	32.4
90°-120°	1662.0	32.2
90°-150°	3036.6	58.8
90°-180°	3490.0	67.6
0°-180°	5166.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	653	655	653	652	63
15°	628	620	621	620	619	177
25°	574	565	564	560	562	264
35°	494	487	487	482	484	309
45°	397	393	392	390	390	306
55°	294	294	294	290	290	262
65°	186	192	196	188	182	185
75°	86	94	99	92	84	92
85°	14	19	22	20	19	19
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.2	656.7	658.4	657.0	653.8
5°	660.2	652.8	655.0	653.2	652.1
7.5°	653.5	646.7	648.2	646.4	645.7
10°	647.4	640.6	642.2	639.9	638.7
12.5°	640.5	633.2	634.8	632.4	631.8
15°	628.3	620.3	621.3	620.1	619.0
17.5°	614.1	606.1	606.2	604.4	604.1
20°	603.9	595.4	594.6	592.3	593.5
22.5°	592.8	583.8	583.0	579.8	581.4
25°	574.3	564.7	563.9	560.4	562.1
27.5°	553.0	543.5	543.5	538.6	540.4
30°	537.2	528.1	529.1	523.3	525.6
32.5°	520.5	512.3	512.8	507.1	509.4
35°	493.7	486.9	486.7	482.1	483.8
37.5°	466.3	460.3	459.3	456.7	457.1
40°	447.3	442.2	440.3	438.6	438.6
42.5°	427.3	422.7	420.8	419.5	419.1
45°	396.8	393.4	391.6	390.4	389.8
47.5°	366.6	363.5	361.9	361.1	360.5
50°	345.8	343.5	342.9	341.1	340.5
52.5°	324.9	323.5	322.9	320.7	320.1
55°	294.1	293.6	294.1	290.1	289.5
57.5°	262.1	263.0	264.9	259.4	258.0
60°	240.8	243.0	245.4	239.0	236.7
62.5°	218.9	222.6	225.9	218.5	215.3
65°	186.2	191.9	195.5	187.8	181.6
67.5°	154.7	161.7	166.0	157.8	150.7
70°	132.8	140.8	145.6	137.3	129.4
72.5°	113.8	122.7	126.6	118.7	110.8
75°	85.9	93.8	98.6	92.0	83.5
77.5°	60.9	68.4	72.4	66.7	59.6
80°	44.7	52.6	55.7	50.9	45.3
82.5°	31.7	38.3	40.4	37.5	33.6
85°	14.5	19.0	21.5	20.3	19.1
87.5°	4.1	7.6	10.2	10.4	11.0
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)