

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: P564247

Luminaire Tested: **SQ4-PR1-100U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564247  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

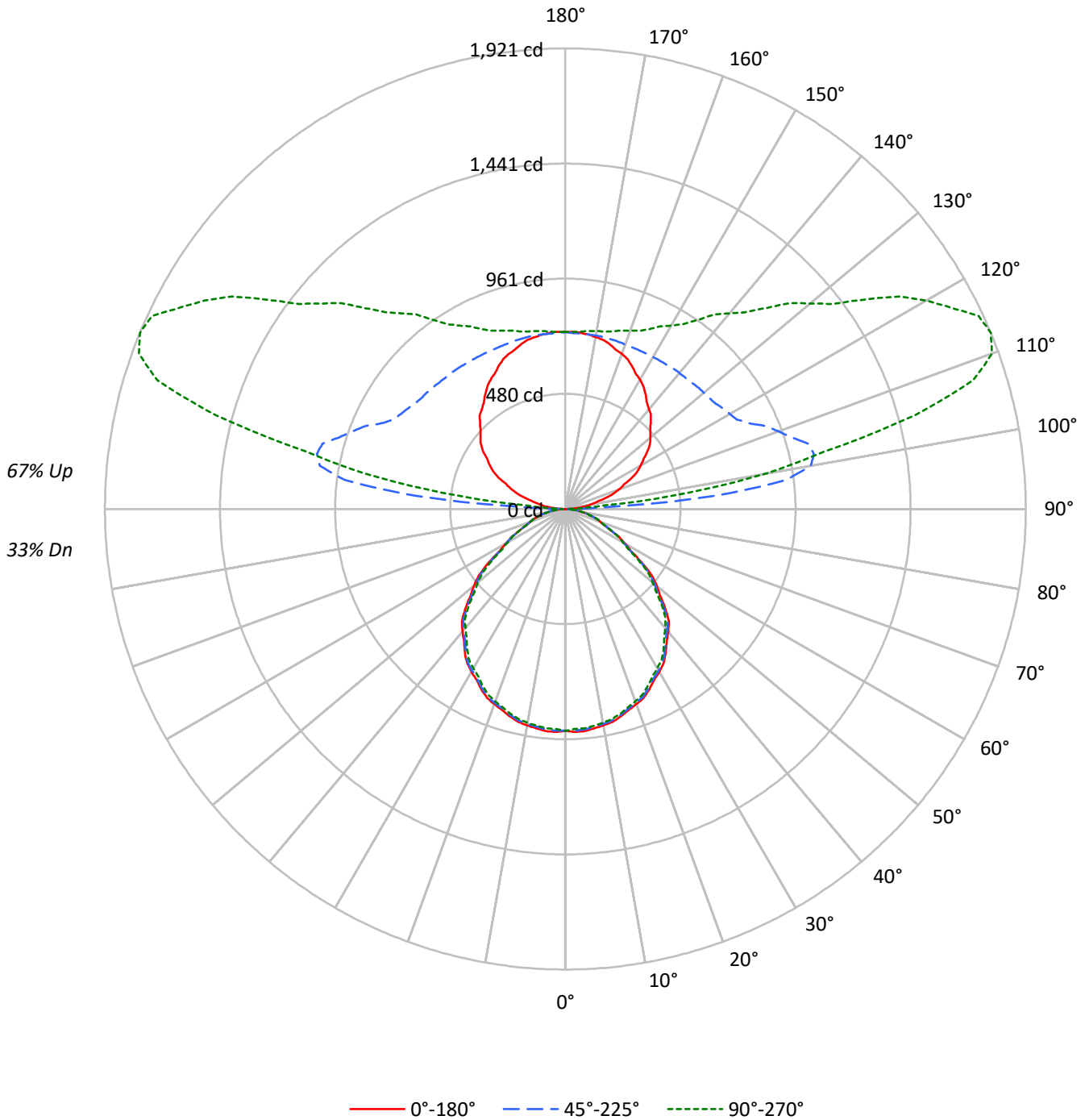
Lumens per Lamp: N/A  
Luminaire Lumens: 7108.6 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5592	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5143	5054	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3401
65°	3027	3039	3016
70°	2780	2795	2795
75°	2671	2671	2690
80°	2511	2540	2511
85°	2025	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	1.2
10°-20°	250.3	3.5
20°-30°	377.6	5.3
30°-40°	449.9	6.3
40°-50°	443.6	6.2
50°-60°	339.0	4.8
60°-70°	209.8	3.0
70°-80°	119.2	1.7
80°-90°	37.8	0.5
90°-100°	345.5	4.9
100°-110°	953.9	13.4
110°-120°	983.8	13.8
120°-130°	790.5	11.1
130°-140°	621.3	8.7
140°-150°	476.5	6.7
150°-160°	342.5	4.8
160°-170°	209.4	2.9
170°-180°	70.6	1.0
0°-30°	715.4	10.1
0°-40°	1165.3	16.4
0°-60°	1947.9	27.4
0°-90°	2314.5	32.6
90°-120°	2283.2	32.1
90°-150°	4171.5	58.7
90°-180°	4794.0	67.4
0°-180°	7108.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	930	920	923	920	918	88
15°	895	886	889	886	885	253
25°	830	820	824	815	814	382
35°	731	722	724	715	714	456
45°	591	584	581	571	569	453
55°	387	381	378	372	371	347
65°	208	206	209	207	207	211
75°	112	112	112	113	113	119
85°	29	30	32	32	32	33
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	931.0	922.9	925.3	923.2	918.9
5°	930.0	919.9	922.9	919.6	918.1
7.5°	922.9	912.9	915.9	912.6	911.7
10°	916.5	907.1	910.1	906.9	905.3
12.5°	909.5	899.5	903.1	899.2	897.7
15°	895.0	885.6	889.4	886.2	884.6
17.5°	879.0	869.1	872.8	869.1	867.1
20°	866.3	856.9	860.7	855.1	854.3
22.5°	852.3	842.9	846.7	839.2	839.0
25°	829.6	819.5	824.0	815.3	814.5
27.5°	802.7	793.3	797.1	788.2	787.2
30°	784.2	774.8	778.6	769.0	767.5
32.5°	763.2	754.4	757.6	748.0	747.1
35°	730.8	722.2	724.4	714.8	714.1
37.5°	694.0	686.2	687.4	676.9	676.1
40°	667.8	660.0	660.7	649.5	648.7
42.5°	639.2	631.4	630.7	619.5	618.7
45°	591.3	583.5	581.0	570.6	569.0
47.5°	536.8	529.0	524.2	515.8	514.7
50°	497.3	489.5	485.3	478.1	475.8
52.5°	454.6	446.8	443.3	436.7	434.3
55°	387.3	381.1	378.5	372.1	370.6
57.5°	323.4	319.2	318.5	312.2	311.6
60°	284.5	282.2	282.1	276.5	276.5
62.5°	251.4	249.6	250.9	247.2	246.6
65°	208.0	206.4	208.8	207.2	207.2
67.5°	173.7	173.7	175.2	174.5	174.5
70°	154.6	154.6	155.4	155.4	155.4
72.5°	137.4	136.8	138.8	138.8	138.2
75°	112.4	112.4	112.4	113.2	113.2
77.5°	87.5	87.7	88.3	88.1	87.5
80°	70.9	71.7	71.7	70.9	70.9
82.5°	54.4	55.1	55.1	55.0	54.4
85°	28.7	30.2	31.9	31.9	31.9
87.5°	8.8	11.7	14.6	14.9	14.5
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)