

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: P563923

Luminaire Tested: **SQ4-PR1-025U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563923  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

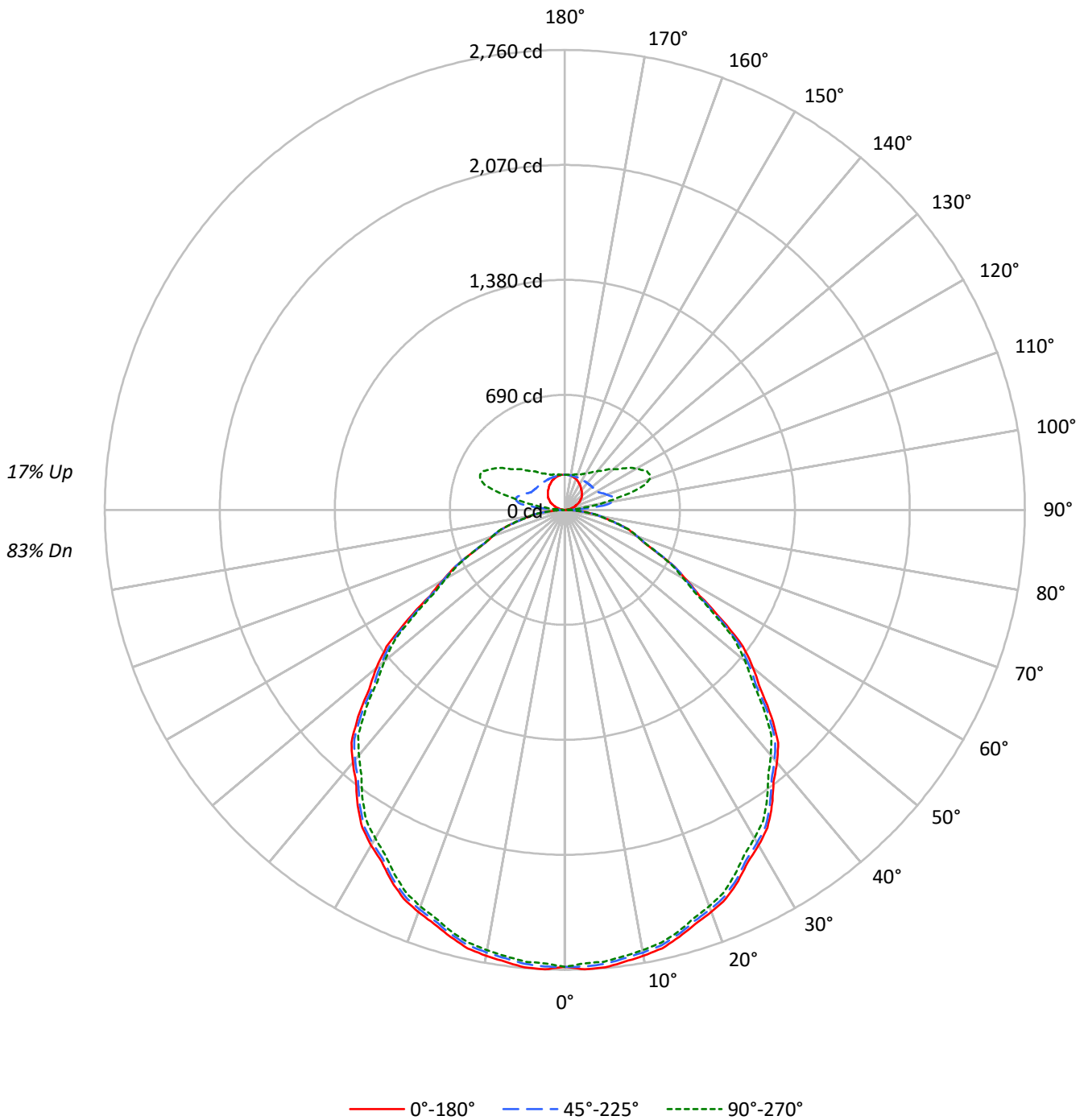
Lumens per Lamp: N/A  
Luminaire Lumens: 8225.4 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16762
15°	16894	16789	16698
20°	16809	16700	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14107	13767	13496
55°	12312	12034	11780
60°	10375	10288	10085
65°	8974	9009	8939
70°	8242	8285	8285
75°	7916	7916	7973
80°	7449	7531	7449
85°	5999	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	3.2
10°-20°	742.1	9.0
20°-30°	1119.3	13.6
30°-40°	1333.6	16.2
40°-50°	1314.9	16.0
50°-60°	1004.9	12.2
60°-70°	621.9	7.6
70°-80°	353.2	4.3
80°-90°	108.6	1.3
90°-100°	102.8	1.3
100°-110°	270.3	3.3
110°-120°	280.3	3.4
120°-130°	224.9	2.7
130°-140°	176.4	2.1
140°-150°	135.4	1.6
150°-160°	97.5	1.2
160°-170°	59.7	0.7
170°-180°	20.2	0.2
0°-30°	2120.8	25.8
0°-40°	3454.4	42.0
0°-60°	5774.2	70.2
0°-90°	6857.8	83.4
90°-120°	653.5	7.9
90°-150°	1190.2	14.5
90°-180°	1368.0	16.6
0°-180°	8225.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2757	2727	2736	2726	2722	262
15°	2653	2625	2636	2627	2622	749
25°	2459	2429	2443	2417	2414	1132
35°	2166	2141	2148	2119	2117	1352
45°	1753	1730	1722	1691	1687	1343
55°	1148	1130	1122	1103	1098	1029
65°	617	612	619	614	614	625
75°	333	333	333	336	336	352
85°	85	90	94	94	94	99
90°	1	4	11	5	5	5
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2759.8	2735.8	2742.8	2736.8	2723.9
5°	2757.0	2726.9	2735.7	2726.1	2721.5
7.5°	2735.7	2706.1	2714.9	2705.4	2702.6
10°	2716.8	2689.1	2697.9	2688.3	2683.7
12.5°	2696.0	2666.4	2677.1	2665.7	2661.0
15°	2653.0	2625.3	2636.5	2626.9	2622.3
17.5°	2605.8	2576.2	2587.3	2576.3	2570.3
20°	2568.0	2540.2	2551.4	2534.8	2532.5
22.5°	2526.4	2498.7	2509.8	2487.6	2487.2
25°	2459.3	2429.3	2442.8	2416.7	2414.4
27.5°	2379.4	2351.7	2362.9	2336.4	2333.6
30°	2324.6	2296.9	2308.1	2279.6	2275.0
32.5°	2262.3	2236.4	2245.7	2217.3	2214.5
35°	2166.4	2140.9	2147.5	2119.0	2116.7
37.5°	2057.2	2034.1	2037.8	2006.6	2004.3
40°	1979.7	1956.6	1958.5	1925.3	1923.0
42.5°	1894.7	1871.6	1869.6	1836.5	1834.2
45°	1752.9	1729.8	1722.2	1691.4	1686.8
47.5°	1591.3	1568.2	1554.0	1528.9	1525.7
50°	1474.2	1451.1	1438.7	1417.3	1410.4
52.5°	1347.5	1324.4	1314.0	1294.5	1287.5
55°	1148.1	1129.7	1122.2	1103.2	1098.5
57.5°	958.7	946.2	944.0	925.6	923.7
60°	843.4	836.5	836.3	819.8	819.8
62.5°	745.1	740.0	743.7	732.8	730.9
65°	616.6	612.0	619.0	614.2	614.2
67.5°	515.0	515.0	519.3	517.4	517.4
70°	458.3	458.3	460.7	460.7	460.7
72.5°	407.3	405.4	411.5	411.5	409.6
75°	333.1	333.1	333.1	335.5	335.5
77.5°	259.4	259.9	261.8	261.2	259.4
80°	210.3	212.6	212.6	210.3	210.3
82.5°	161.1	163.4	163.5	163.0	161.1
85°	85.0	89.7	94.5	94.5	94.5
87.5°	24.8	32.8	40.0	38.8	37.0
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)