

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: P563920

Luminaire Tested: **SQ4-PR1-025U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563920  
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-100D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

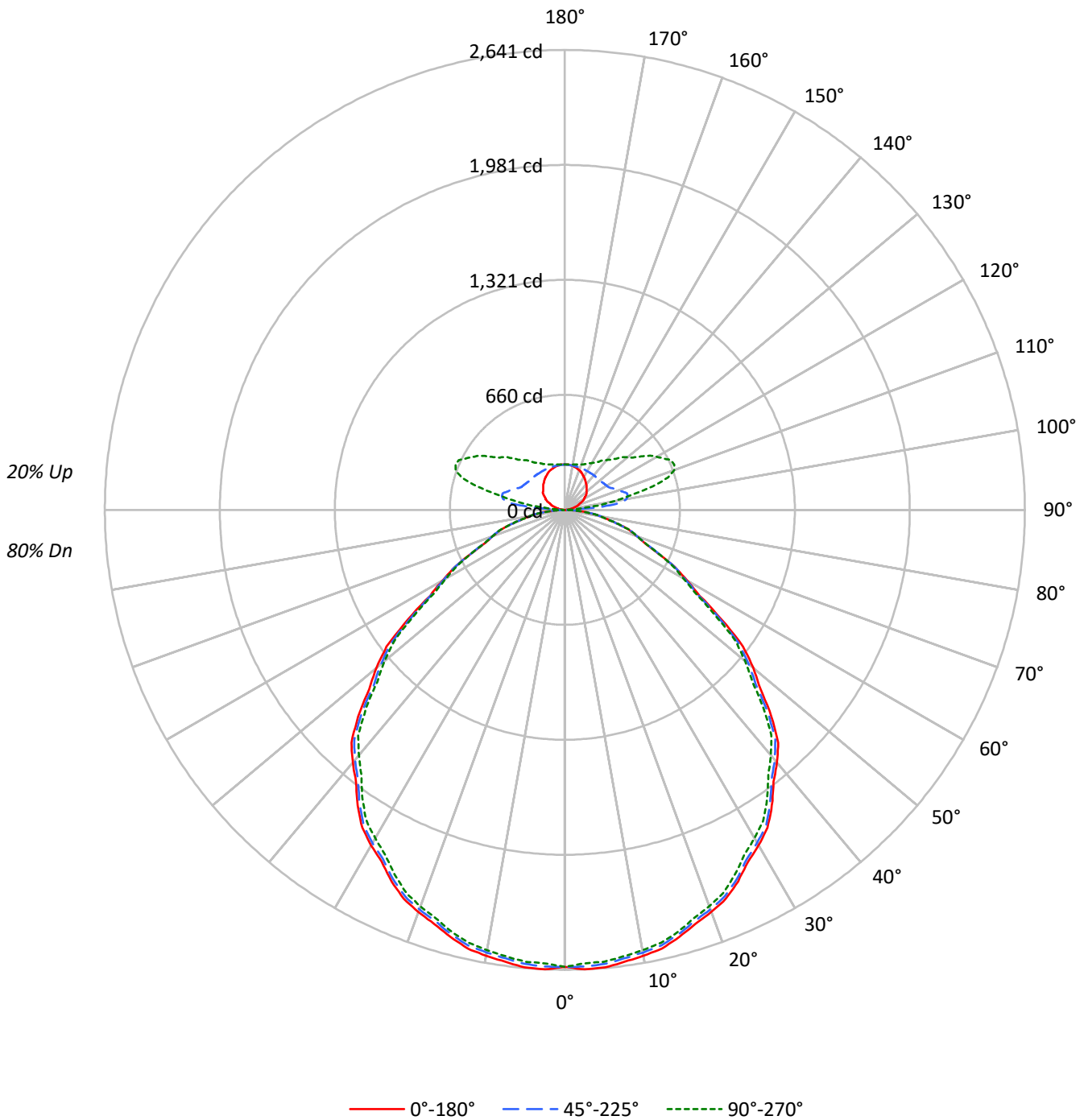
Lumens per Lamp: N/A  
Luminaire Lumens: 8249.5 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 82.2  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	91	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	59	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	37	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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

	0°	45°	90°
0°	12108	12108	12108
5°	12217	12122	12060
10°	12178	12093	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8837	8636	8454
60°	7446	7384	7237
65°	6440	6465	6416
70°	5916	5945	5945
75°	5682	5682	5721
80°	5345	5406	5345
85°	4308	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	3.0
10°-20°	710.1	8.6
20°-30°	1071.1	13.0
30°-40°	1276.2	15.5
40°-50°	1258.2	15.3
50°-60°	961.6	11.7
60°-70°	595.1	7.2
70°-80°	338.0	4.1
80°-90°	104.2	1.3
90°-100°	126.8	1.5
100°-110°	333.5	4.0
110°-120°	345.8	4.2
120°-130°	277.3	3.4
130°-140°	217.6	2.6
140°-150°	167.0	2.0
150°-160°	120.3	1.5
160°-170°	73.6	0.9
170°-180°	24.9	0.3
0°-30°	2029.4	24.6
0°-40°	3305.6	40.1
0°-60°	5525.4	67.0
0°-90°	6562.7	79.6
90°-120°	806.1	9.8
90°-150°	1468.1	17.8
90°-180°	1687.0	20.4
0°-180°	8249.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2638	2610	2618	2609	2604	250
15°	2539	2512	2523	2514	2509	716
25°	2353	2325	2338	2313	2310	1083
35°	2073	2049	2055	2028	2026	1294
45°	1677	1655	1648	1618	1614	1285
55°	1099	1081	1074	1056	1051	984
65°	590	586	592	588	588	598
75°	319	319	319	321	321	337
85°	81	86	90	90	90	95
90°	2	5	13	7	7	5
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2640.9	2617.9	2624.6	2618.9	2606.5
5°	2638.2	2609.5	2617.8	2608.7	2604.3
7.5°	2617.8	2589.5	2597.9	2588.8	2586.2
10°	2599.8	2573.2	2581.7	2572.5	2568.1
12.5°	2579.9	2551.6	2561.8	2550.8	2546.4
15°	2538.7	2512.2	2522.9	2513.8	2509.3
17.5°	2493.5	2465.2	2475.9	2465.3	2459.6
20°	2457.3	2430.8	2441.5	2425.6	2423.4
22.5°	2417.5	2391.0	2401.7	2380.5	2380.0
25°	2353.3	2324.6	2337.5	2312.6	2310.4
27.5°	2276.9	2250.4	2261.1	2235.7	2233.1
30°	2224.5	2198.0	2208.7	2181.4	2177.0
32.5°	2164.8	2140.0	2149.0	2121.8	2119.1
35°	2073.0	2048.7	2054.9	2027.8	2025.5
37.5°	1968.6	1946.5	1950.0	1920.2	1917.9
40°	1894.4	1872.3	1874.1	1842.4	1840.2
42.5°	1813.0	1790.9	1789.1	1757.4	1755.2
45°	1677.4	1655.3	1648.0	1618.5	1614.1
47.5°	1522.8	1500.7	1487.1	1463.0	1459.9
50°	1410.7	1388.5	1376.7	1356.2	1349.6
52.5°	1289.5	1267.4	1257.4	1238.7	1232.1
55°	1098.7	1081.0	1073.8	1055.6	1051.2
57.5°	917.4	905.4	903.4	885.7	883.9
60°	807.1	800.4	800.3	784.4	784.4
62.5°	713.0	708.1	711.7	701.2	699.4
65°	590.0	585.6	592.3	587.8	587.8
67.5°	492.8	492.8	496.9	495.1	495.1
70°	438.6	438.6	440.8	440.8	440.8
72.5°	389.7	388.0	393.8	393.8	392.0
75°	318.8	318.8	318.8	321.0	321.0
77.5°	248.2	248.7	250.5	250.0	248.2
80°	201.2	203.4	203.5	201.2	201.2
82.5°	154.2	156.4	156.4	155.9	154.2
85°	81.4	85.8	90.4	90.4	90.4
87.5°	23.8	31.6	38.8	37.5	35.7
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)