

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: P564490

Luminaire Tested: **SQ4-PR1-150U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564490  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

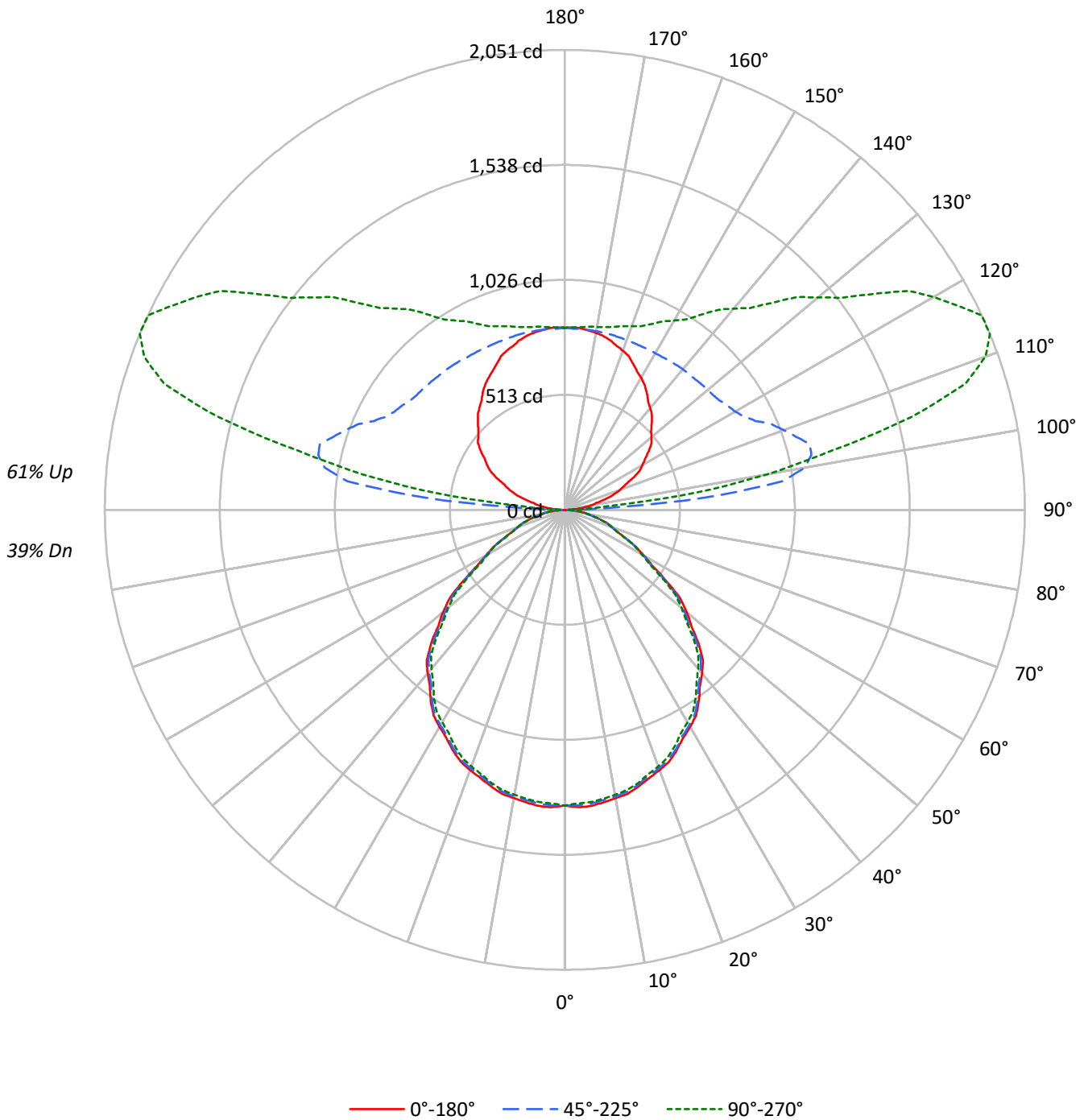
Lumens per Lamp: N/A  
Luminaire Lumens: 8533.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.3  
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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	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	34	30	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

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

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12046
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9736
55°	8881	8680	8498
60°	7484	7422	7274
65°	6473	6499	6449
70°	5945	5975	5975
75°	5711	5711	5750
80°	5372	5430	5372
85°	4330	4806	4806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	1.5
10°-20°	356.9	4.2
20°-30°	538.3	6.3
30°-40°	641.4	7.5
40°-50°	632.3	7.4
50°-60°	483.2	5.7
60°-70°	299.1	3.5
70°-80°	169.9	2.0
80°-90°	53.3	0.6
90°-100°	377.3	4.4
100°-110°	1020.1	12.0
110°-120°	1072.5	12.6
120°-130°	871.2	10.2
130°-140°	683.3	8.0
140°-150°	524.5	6.1
150°-160°	377.2	4.4
160°-170°	230.4	2.7
170°-180°	77.7	0.9
0°-30°	1019.9	12.0
0°-40°	1661.2	19.5
0°-60°	2776.8	32.5
0°-90°	3299.1	38.7
90°-120°	2469.9	28.9
90°-150°	4548.9	53.3
90°-180°	5234.0	61.3
0°-180°	8533.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1326	1311	1316	1311	1309	126
15°	1276	1262	1268	1263	1261	360
25°	1183	1168	1175	1162	1161	544
35°	1042	1030	1033	1019	1018	650
45°	843	832	828	813	811	646
55°	552	543	540	530	528	495
65°	296	294	298	295	295	300
75°	160	160	160	161	161	169
85°	41	43	45	45	45	48
90°	2	5	11	12	11	6
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1327.2	1315.6	1319.0	1316.1	1309.9
5°	1325.8	1311.4	1315.6	1311.0	1308.8
7.5°	1315.6	1301.4	1305.6	1301.0	1299.7
10°	1306.5	1293.2	1297.4	1292.8	1290.6
12.5°	1296.5	1282.3	1287.4	1281.9	1279.7
15°	1275.8	1262.5	1267.9	1263.3	1261.1
17.5°	1253.1	1238.9	1244.3	1239.0	1236.1
20°	1234.9	1221.6	1227.0	1219.0	1217.9
22.5°	1214.9	1201.6	1207.0	1196.3	1196.1
25°	1182.7	1168.2	1174.7	1162.2	1161.1
27.5°	1144.3	1130.9	1136.3	1123.6	1122.2
30°	1117.9	1104.6	1110.0	1096.3	1094.1
32.5°	1087.9	1075.5	1080.0	1066.3	1065.0
35°	1041.8	1029.6	1032.7	1019.1	1017.9
37.5°	989.3	978.2	980.0	965.0	963.9
40°	952.0	940.9	941.8	925.9	924.8
42.5°	911.2	900.0	899.1	883.2	882.1
45°	843.0	831.9	828.2	813.4	811.2
47.5°	765.3	754.2	747.3	735.2	733.7
50°	708.9	697.8	691.9	681.6	678.3
52.5°	648.0	636.9	631.9	622.5	619.2
55°	552.1	543.3	539.6	530.5	528.3
57.5°	461.0	455.0	454.0	445.1	444.2
60°	405.6	402.3	402.2	394.2	394.2
62.5°	358.3	355.9	357.6	352.4	351.5
65°	296.5	294.3	297.7	295.4	295.4
67.5°	247.7	247.7	249.7	248.8	248.8
70°	220.4	220.4	221.5	221.5	221.5
72.5°	195.9	195.0	197.9	197.9	197.0
75°	160.2	160.2	160.2	161.3	161.3
77.5°	124.7	125.0	125.9	125.6	124.7
80°	101.1	102.2	102.2	101.1	101.1
82.5°	77.5	78.6	78.6	78.4	77.5
85°	40.9	43.1	45.4	45.4	45.4
87.5°	12.2	16.4	20.4	20.6	19.5
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)