

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: P565039

Luminaire Tested: **SQ4-PW1-125U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565039  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

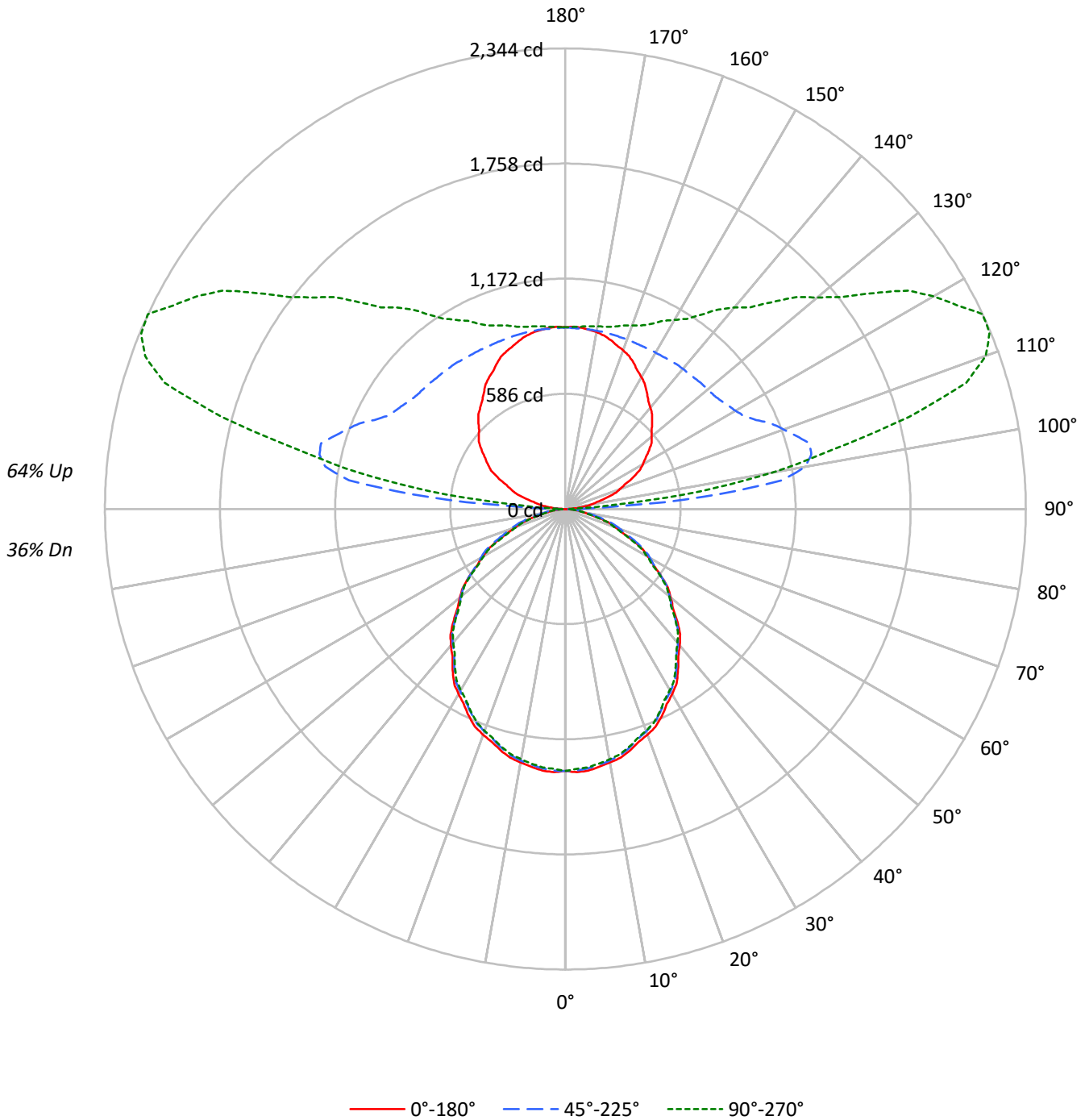
Lumens per Lamp: N/A  
Luminaire Lumens: 9361.5 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7158	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6113	5895
65°	5487	5760	5352
70°	4838	5302	4710
75°	4130	4746	4019
80°	3202	3995	3245
85°	2075	3070	2738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	1.3
10°-20°	354.4	3.8
20°-30°	525.7	5.6
30°-40°	615.2	6.6
40°-50°	612.4	6.5
50°-60°	528.8	5.6
60°-70°	380.7	4.1
70°-80°	199.6	2.1
80°-90°	51.7	0.6
90°-100°	432.4	4.6
100°-110°	1164.8	12.4
110°-120°	1222.5	13.1
120°-130°	992.0	10.6
130°-140°	778.0	8.3
140°-150°	597.3	6.4
150°-160°	429.5	4.6
160°-170°	262.4	2.8
170°-180°	88.5	0.9
0°-30°	1005.7	10.7
0°-40°	1620.9	17.3
0°-60°	2762.2	29.5
0°-90°	3394.1	36.3
90°-120°	2819.7	30.1
90°-150°	5187.0	55.4
90°-180°	5967.0	63.7
0°-180°	9361.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1337	1322	1326	1323	1320	127
15°	1272	1256	1258	1256	1253	359
25°	1163	1143	1142	1135	1138	535
35°	1000	986	986	976	980	625
45°	803	796	793	790	789	620
55°	596	594	596	587	586	531
65°	377	388	396	380	368	374
75°	174	190	200	186	169	186
85°	29	39	44	41	39	39
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
2.5°	1340.7	1329.7	1333.2	1330.2	1323.8
5°	1336.7	1321.8	1326.1	1322.6	1320.3
7.5°	1323.1	1309.3	1312.5	1308.7	1307.3
10°	1310.9	1297.1	1300.3	1295.5	1293.2
12.5°	1296.8	1282.1	1285.3	1280.5	1279.1
15°	1272.1	1256.0	1258.0	1255.6	1253.3
17.5°	1243.4	1227.1	1227.5	1223.7	1223.2
20°	1222.8	1205.5	1204.0	1199.3	1201.6
22.5°	1200.2	1182.1	1180.5	1174.0	1177.2
25°	1162.9	1143.3	1141.7	1134.8	1138.2
27.5°	1119.6	1100.3	1100.4	1090.6	1094.3
30°	1087.7	1069.3	1071.2	1059.6	1064.2
32.5°	1053.9	1037.3	1038.4	1026.7	1031.3
35°	999.6	985.8	985.5	976.2	979.6
37.5°	944.2	932.0	930.1	924.7	925.6
40°	905.6	895.3	891.5	888.0	888.0
42.5°	865.2	855.8	852.1	849.5	848.5
45°	803.4	796.5	792.9	790.5	789.3
47.5°	742.4	735.9	732.7	731.1	729.9
50°	700.1	695.5	694.2	690.6	689.5
52.5°	657.8	655.0	653.8	649.3	648.1
55°	595.5	594.4	595.5	587.3	586.1
57.5°	530.7	532.5	536.3	525.2	522.5
60°	487.5	492.1	496.9	483.8	479.2
62.5°	443.3	450.6	457.4	442.4	436.0
65°	377.0	388.5	395.8	380.3	367.7
67.5°	313.2	327.4	336.2	319.4	305.2
70°	269.0	285.1	294.8	278.0	261.9
72.5°	230.5	248.4	256.3	240.4	224.4
75°	173.8	189.9	199.7	186.4	169.1
77.5°	123.3	138.5	146.6	135.0	120.7
80°	90.4	106.5	112.8	103.1	91.6
82.5°	64.1	77.5	81.8	75.9	68.1
85°	29.4	38.6	43.5	41.1	38.8
87.5°	8.0	15.3	20.7	20.9	21.9
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)