

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: P565015

Luminaire Tested: **SQ4-PW1-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565015  
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-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

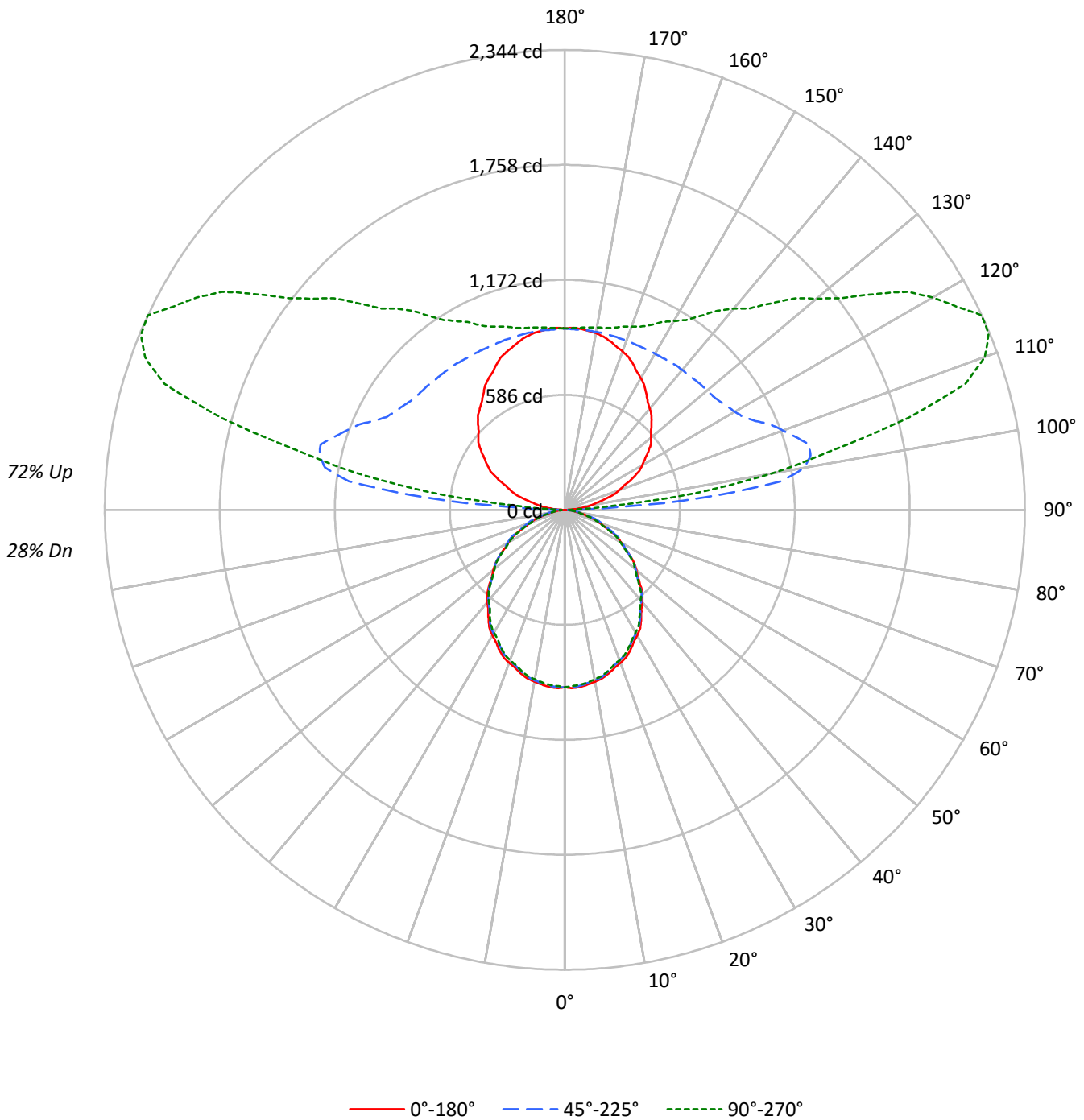
Lumens per Lamp: N/A  
Luminaire Lumens: 8270.9 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.2  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5556	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5242	5162	5128
35°	5092	5020	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4545	4507	4476
55°	4333	4333	4265
60°	4068	4147	4000
65°	3723	3909	3630
70°	3282	3597	3196
75°	2802	3220	2728
80°	2175	2710	2203
85°	1404	2082	1856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	1.0
10°-20°	240.5	2.9
20°-30°	356.7	4.3
30°-40°	417.4	5.0
40°-50°	415.5	5.0
50°-60°	358.8	4.3
60°-70°	258.3	3.1
70°-80°	135.4	1.6
80°-90°	35.8	0.4
90°-100°	432.4	5.2
100°-110°	1164.8	14.1
110°-120°	1222.5	14.8
120°-130°	992.0	12.0
130°-140°	778.0	9.4
140°-150°	597.3	7.2
150°-160°	429.5	5.2
160°-170°	262.4	3.2
170°-180°	88.5	1.1
0°-30°	682.4	8.3
0°-40°	1099.7	13.3
0°-60°	1874.1	22.7
0°-90°	2303.6	27.9
90°-120°	2819.7	34.1
90°-150°	5187.0	62.7
90°-180°	5967.0	72.1
0°-180°	8270.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	907	897	900	897	896	86
15°	863	852	854	852	850	243
25°	789	776	775	770	772	363
35°	678	669	669	662	665	424
45°	545	540	538	536	536	421
55°	404	403	404	398	398	361
65°	256	264	269	258	249	254
75°	118	129	136	126	115	126
85°	20	26	30	28	26	26
90°	2	7	14	15	15	5
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°	904.5	904.5	904.5	904.5	904.5
2.5°	909.6	902.2	904.5	902.5	898.2
5°	906.9	896.8	899.8	897.3	895.8
7.5°	897.7	888.3	890.5	887.9	887.0
10°	889.4	880.0	882.2	879.0	877.4
12.5°	879.8	869.9	872.0	868.8	867.9
15°	863.1	852.2	853.5	851.9	850.3
17.5°	843.6	832.6	832.8	830.3	829.9
20°	829.6	817.9	816.9	813.7	815.3
22.5°	814.3	802.0	800.9	796.5	798.7
25°	789.0	775.7	774.6	769.9	772.2
27.5°	759.7	746.6	746.6	739.9	742.4
30°	738.0	725.5	726.8	718.9	722.0
32.5°	715.0	703.8	704.5	696.6	699.7
35°	678.2	668.9	668.6	662.3	664.7
37.5°	640.6	632.3	631.0	627.4	628.0
40°	614.4	607.4	604.9	602.5	602.5
42.5°	587.0	580.6	578.1	576.3	575.7
45°	545.1	540.4	537.9	536.3	535.5
47.5°	503.7	499.3	497.1	496.0	495.2
50°	475.0	471.9	471.0	468.6	467.8
52.5°	446.3	444.4	443.6	440.5	439.8
55°	404.1	403.3	404.1	398.5	397.7
57.5°	360.1	361.3	363.9	356.4	354.5
60°	330.7	333.9	337.1	328.3	325.2
62.5°	300.8	305.8	310.3	300.2	295.8
65°	255.8	263.6	268.6	258.0	249.4
67.5°	212.5	222.1	228.1	216.7	207.0
70°	182.5	193.4	200.0	188.6	177.7
72.5°	156.4	168.5	173.9	163.1	152.2
75°	117.9	128.9	135.5	126.4	114.8
77.5°	83.7	94.0	99.5	91.6	81.9
80°	61.4	72.3	76.5	70.0	62.2
82.5°	43.5	52.6	55.5	51.5	46.2
85°	19.9	26.2	29.5	27.9	26.3
87.5°	5.6	10.9	14.9	15.2	15.8
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)