

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: P563023

Luminaire Tested: **SQ4-PC3-125U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563023  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

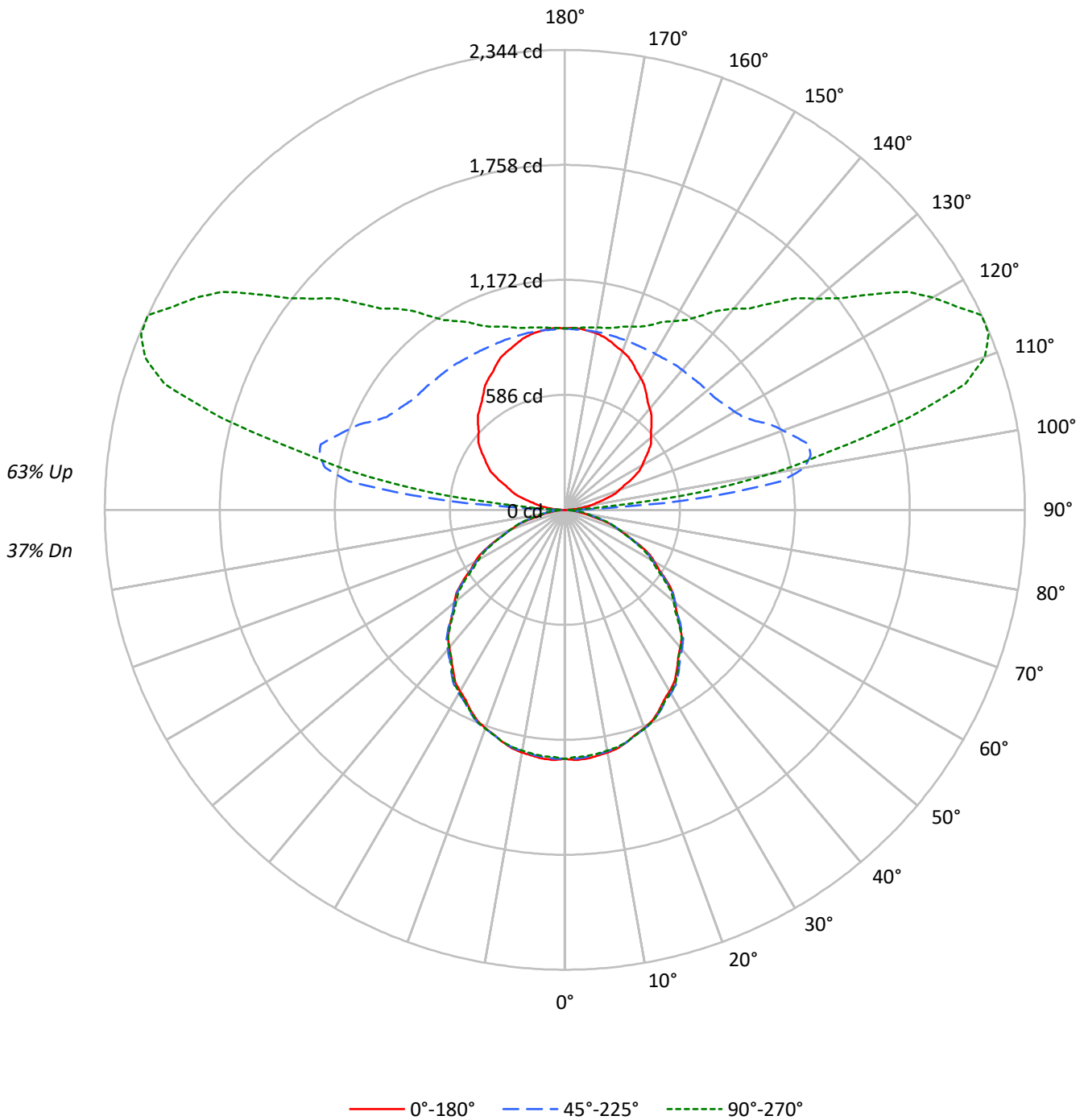
Lumens per Lamp: N/A  
Luminaire Lumens: 9431.7 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37	37	37	37	
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31	31	31	31	
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26	26	26	26	
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22	22	22	22	
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19	19	19	19	
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16	16	16	16	
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14	14	14	14	
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13	13	13	13	
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11	11	11	11	
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10	10	10	10	
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9	9	9	9	

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

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7843	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7676	7733	7708
30°	7583	7675	7641
35°	7470	7585	7532
40°	7347	7450	7375
45°	7214	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6344	6242
65°	5983	5864	5813
70°	5239	5282	5260
75°	4216	4663	4689
80°	2997	3953	3995
85°	1821	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	1.3
10°-20°	344.5	3.7
20°-30°	521.7	5.5
30°-40°	625.5	6.6
40°-50°	637.8	6.8
50°-60°	556.8	5.9
60°-70°	398.6	4.2
70°-80°	205.3	2.2
80°-90°	54.1	0.6
90°-100°	432.4	4.6
100°-110°	1164.8	12.4
110°-120°	1222.5	13.0
120°-130°	992.0	10.5
130°-140°	778.0	8.2
140°-150°	597.3	6.3
150°-160°	429.5	4.6
160°-170°	262.4	2.8
170°-180°	88.5	0.9
0°-30°	986.3	10.5
0°-40°	1611.8	17.1
0°-60°	2806.4	29.8
0°-90°	3464.3	36.7
90°-120°	2819.7	29.9
90°-150°	5187.0	55.0
90°-180°	5967.0	63.3
0°-180°	9431.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1273	1261	1265	1262	1260	121
15°	1225	1215	1225	1225	1224	345
25°	1131	1123	1139	1136	1136	521
35°	995	993	1010	1003	1003	622
45°	829	827	835	824	822	638
55°	634	626	626	617	617	565
65°	411	402	403	399	399	407
75°	177	185	196	197	197	192
85°	26	40	47	48	47	35
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°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1276.1	1265.1	1268.6	1265.7	1261.1
5°	1273.3	1260.6	1265.1	1261.5	1260.4
7.5°	1264.1	1251.5	1257.3	1254.9	1253.8
10°	1255.7	1243.0	1249.8	1247.4	1246.3
12.5°	1244.4	1232.7	1240.4	1238.0	1237.8
15°	1225.1	1214.8	1225.1	1225.1	1223.9
17.5°	1200.9	1191.5	1202.6	1203.3	1202.6
20°	1184.0	1173.7	1187.5	1186.4	1187.5
22.5°	1163.3	1154.8	1169.7	1166.6	1167.8
25°	1131.1	1123.1	1139.4	1135.8	1135.8
27.5°	1093.1	1087.3	1105.1	1101.3	1101.3
30°	1067.7	1062.0	1080.6	1075.9	1075.9
32.5°	1039.5	1035.6	1053.4	1047.8	1047.8
35°	994.9	992.6	1010.2	1003.1	1003.1
37.5°	948.8	946.8	962.7	954.2	951.4
40°	915.0	913.9	927.9	918.5	918.5
42.5°	881.2	880.0	892.2	881.0	881.0
45°	829.3	827.0	835.1	824.5	822.2
47.5°	772.7	770.4	775.5	763.9	762.8
50°	734.1	731.8	734.1	723.5	722.4
52.5°	694.7	690.5	690.9	680.3	680.1
55°	634.3	626.2	626.1	616.7	616.7
57.5°	570.4	559.8	560.8	552.7	551.6
60°	526.2	514.7	515.7	508.6	507.4
62.5°	483.0	469.7	472.4	464.4	464.2
65°	411.1	401.9	402.9	399.4	399.4
67.5°	342.0	333.5	339.7	336.9	336.6
70°	291.3	285.6	293.7	293.6	292.5
72.5°	244.3	244.1	254.2	254.2	254.9
75°	177.4	185.4	196.2	197.3	197.3
77.5°	118.4	132.6	144.5	144.9	144.7
80°	84.6	100.7	111.6	113.9	112.8
82.5°	57.3	74.3	83.4	85.7	84.6
85°	25.8	39.6	47.0	48.1	47.0
87.5°	8.0	17.2	21.6	21.8	20.0
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)