

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: P523897

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523897  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

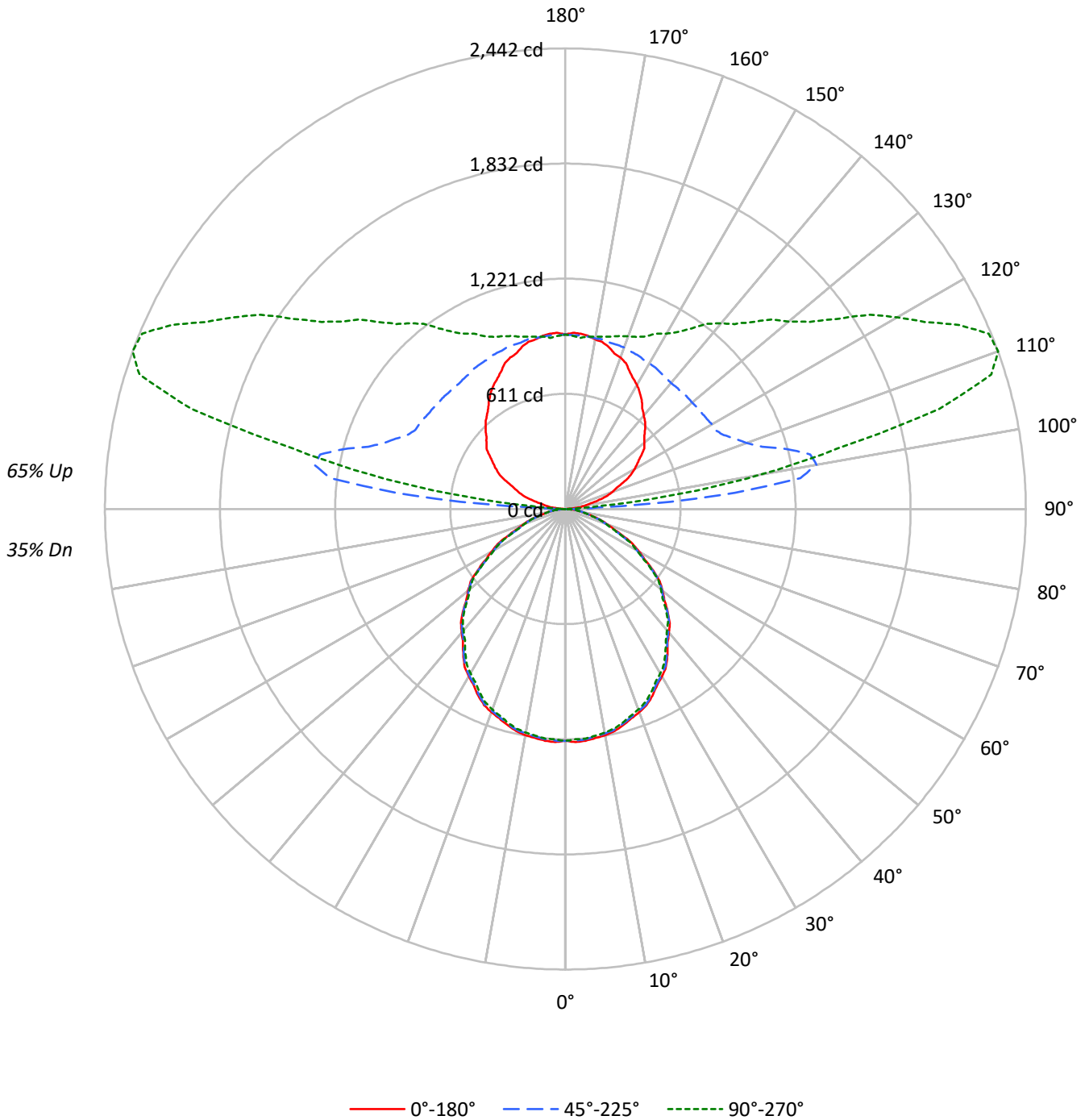
Lumens per Lamp: N/A  
Luminaire Lumens: 8892.3 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 73.2  
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	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	23	28	23	19	22	18	16	17	14	12	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°	11344	11344	11344
5°	11427	11357	11317
10°	11408	11327	11277
15°	11332	11270	11209
20°	11257	11194	11109
25°	11124	11046	10936
30°	10918	10860	10723
35°	10632	10559	10425
40°	10292	10227	10110
45°	10010	9940	9842
50°	9651	9590	9496
55°	9153	9030	8961
60°	8331	8093	8053
65°	7340	7034	7010
70°	6337	6075	6075
75°	5454	5379	5301
80°	4808	4867	4750
85°	3769	4107	4107



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	1.3
10°-20°	332.0	3.7
20°-30°	497.2	5.6
30°-40°	583.2	6.6
40°-50°	585.1	6.6
50°-60°	499.1	5.6
60°-70°	325.5	3.7
70°-80°	163.3	1.8
80°-90°	45.2	0.5
90°-100°	421.5	4.7
100°-110°	1199.2	13.5
110°-120°	1149.0	12.9
120°-130°	909.4	10.2
130°-140°	729.9	8.2
140°-150°	571.4	6.4
150°-160°	418.1	4.7
160°-170°	259.0	2.9
170°-180°	87.9	1.0
0°-30°	945.5	10.6
0°-40°	1528.7	17.2
0°-60°	2612.9	29.4
0°-90°	3146.9	35.4
90°-120°	2769.7	31.1
90°-150°	4980.4	56.0
90°-180°	5745.0	64.6
0°-180°	8892.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1234	1222	1226	1222	1222	117
15°	1186	1175	1180	1176	1174	335
25°	1093	1080	1085	1075	1074	502
35°	944	934	938	927	926	590
45°	767	762	762	754	754	591
55°	569	567	561	558	557	506
65°	336	330	322	320	321	336
75°	153	153	151	150	149	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	3
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1237.3	1227.2	1229.5	1227.7	1222.6
5°	1233.8	1222.2	1226.3	1222.0	1222.0
7.5°	1225.4	1212.8	1216.8	1212.5	1212.3
10°	1217.7	1205.0	1209.0	1204.7	1203.7
12.5°	1206.5	1193.8	1198.7	1193.5	1193.3
15°	1186.4	1174.8	1179.9	1175.6	1173.5
17.5°	1163.8	1151.1	1157.3	1151.3	1150.4
20°	1146.5	1133.9	1140.1	1131.5	1131.5
22.5°	1125.8	1113.2	1120.2	1109.0	1109.0
25°	1092.7	1080.0	1085.1	1075.4	1074.3
27.5°	1053.2	1040.8	1046.1	1035.1	1034.9
30°	1024.8	1013.2	1019.4	1007.5	1006.5
32.5°	993.7	983.0	987.5	975.6	974.6
35°	944.0	934.5	937.5	926.7	925.6
37.5°	891.6	881.9	885.3	876.1	875.6
40°	854.5	848.2	849.1	841.5	839.4
42.5°	820.0	812.9	813.8	806.2	805.8
45°	767.2	762.0	761.8	754.3	754.3
47.5°	711.2	707.2	706.0	699.8	699.6
50°	672.4	669.2	668.1	662.7	661.6
52.5°	631.9	630.4	626.7	622.2	622.0
55°	569.0	566.9	561.4	558.2	557.1
57.5°	500.6	496.4	490.3	485.6	486.4
60°	451.5	447.3	438.6	436.4	436.4
62.5°	404.1	399.0	390.3	387.3	389.0
65°	336.2	329.9	322.2	320.1	321.1
67.5°	274.6	268.9	260.6	260.5	259.7
70°	234.9	231.8	225.2	225.2	225.2
72.5°	199.6	198.1	193.3	193.3	192.5
75°	153.0	153.0	150.9	149.8	148.7
77.5°	114.7	115.1	114.0	112.9	111.0
80°	90.5	92.6	91.6	90.5	89.4
82.5°	68.1	70.2	70.0	68.1	67.9
85°	35.6	38.7	38.8	38.8	38.8
87.5°	9.5	12.9	13.8	13.8	14.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)