

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521621

Luminaire Tested: **SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521621  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

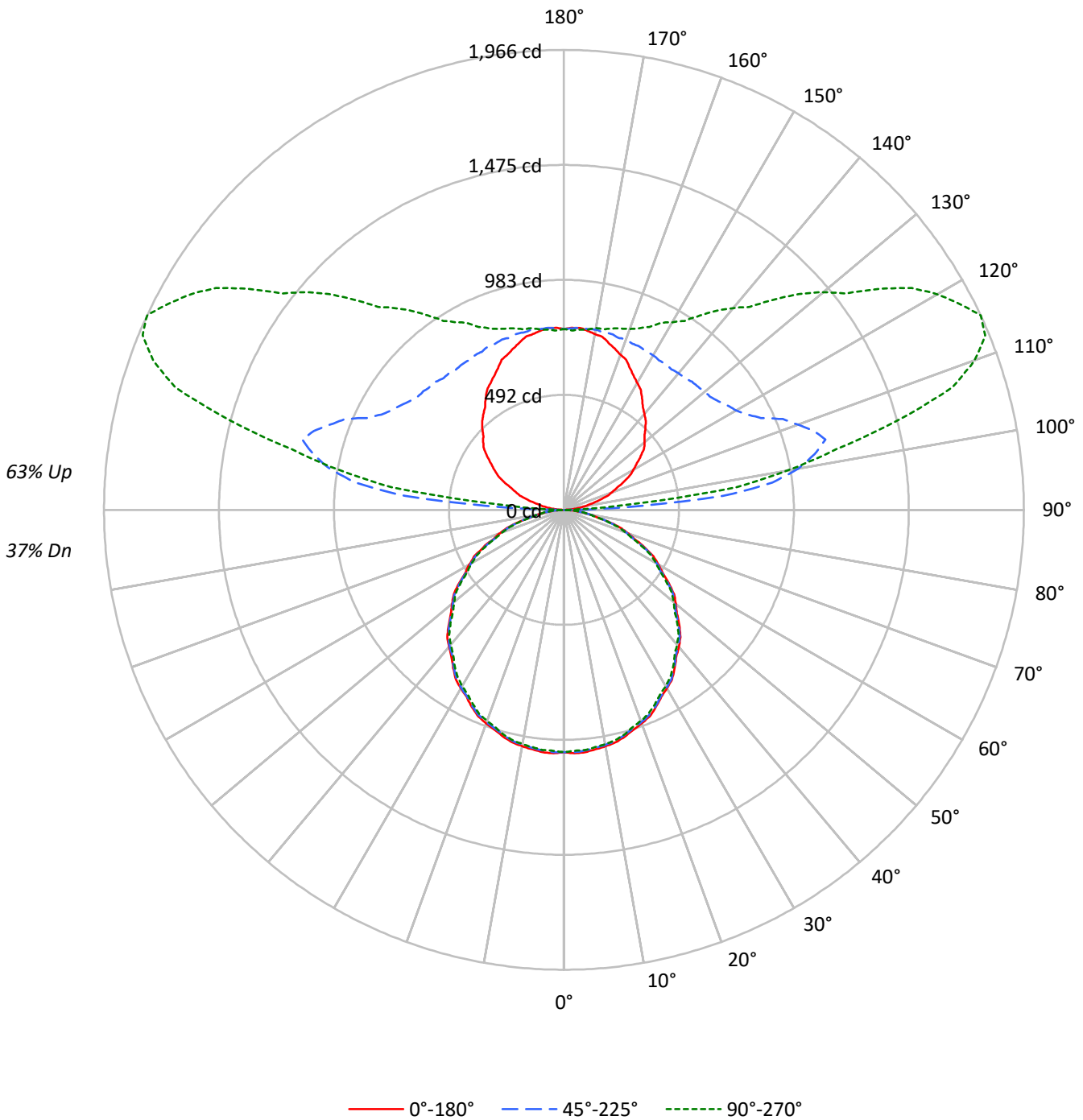
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7959.4 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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

TEST NUMBER: P521621  
CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521621

CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

**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	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	23	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	45°	90°
0°	9560	9560	9560
5°	9633	9569	9542
10°	9615	9561	9523
15°	9588	9522	9503
20°	9538	9489	9431
25°	9469	9430	9349
30°	9387	9356	9262
35°	9294	9250	9173
40°	9206	9147	9052
45°	9102	9026	8936
50°	8958	8886	8774
55°	8807	8696	8586
60°	8601	8455	8364
65°	8333	8119	8012
70°	7834	7623	7542
75°	6994	6855	6752
80°	5786	5839	5786
85°	4150	4679	4880



TEST NUMBER: P521621

CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	1.2
10°-20°	280.9	3.5
20°-30°	424.8	5.3
30°-40°	511.4	6.4
40°-50°	531.2	6.7
50°-60°	482.0	6.1
60°-70°	367.6	4.6
70°-80°	204.9	2.6
80°-90°	53.7	0.7
90°-100°	398.5	5.0
100°-110°	963.0	12.1
110°-120°	1027.1	12.9
120°-130°	831.9	10.5
130°-140°	644.1	8.1
140°-150°	491.3	6.2
150°-160°	355.7	4.5
160°-170°	219.1	2.8
170°-180°	74.2	0.9
0°-30°	803.7	10.1
0°-40°	1315.1	16.5
0°-60°	2328.4	29.3
0°-90°	2954.7	37.1
90°-120°	2388.6	30.0
90°-150°	4355.8	54.7
90°-180°	5005.0	62.9
0°-180°	7959.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1040	1030	1033	1031	1030	99
15°	1004	992	997	995	995	283
25°	930	921	926	918	918	428
35°	825	819	821	812	814	516
45°	698	691	692	683	685	537
55°	548	545	541	534	534	489
65°	382	378	372	366	367	376
75°	196	195	192	190	189	209
85°	39	44	44	46	46	48
90°	0	0	0	0	0	3
95°	39	199	683	444	311	44
105°	154	266	1157	1498	1478	163
115°	282	360	930	1763	1966	278
125°	401	462	807	1402	1647	358
135°	493	550	774	1106	1272	380
145°	583	626	760	940	1013	364
155°	668	697	769	832	863	308
165°	738	750	779	791	802	208
175°	781	778	781	774	773	74
180°	773	773	773	773	773	

TEST NUMBER: P521621

CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1041.7	1034.0	1036.9	1034.5	1030.7
5°	1040.1	1030.5	1033.2	1031.2	1030.3
7.5°	1032.6	1023.0	1026.7	1023.8	1023.6
10°	1026.3	1016.8	1020.5	1017.5	1016.5
12.5°	1018.5	1008.1	1011.8	1008.9	1008.7
15°	1003.8	992.3	996.9	994.9	994.9
17.5°	985.5	974.2	979.8	976.3	974.7
20°	971.4	960.8	966.5	960.6	960.6
22.5°	956.5	945.9	950.8	944.1	944.1
25°	930.2	920.6	926.3	917.5	918.4
27.5°	901.5	892.9	897.8	889.4	889.8
30°	881.1	872.5	878.2	867.4	869.4
32.5°	859.9	852.1	855.4	846.2	846.6
35°	825.2	819.4	821.3	812.5	814.4
37.5°	789.5	782.8	784.6	775.6	777.5
40°	764.4	757.6	759.5	749.7	751.6
42.5°	737.7	731.7	732.8	723.0	725.7
45°	697.6	690.9	691.8	683.0	684.9
47.5°	654.7	649.3	648.2	640.2	641.9
50°	624.1	620.2	619.1	610.3	611.3
52.5°	593.4	590.4	587.7	579.8	582.3
55°	547.5	544.6	540.6	533.8	533.8
57.5°	499.8	497.0	492.0	485.2	487.1
60°	466.1	463.2	458.2	451.4	453.3
62.5°	432.3	429.4	423.7	417.6	418.8
65°	381.7	377.9	371.9	366.0	367.0
67.5°	327.3	323.7	318.7	313.0	314.2
70°	290.4	287.6	282.6	277.7	279.6
72.5°	252.0	249.1	244.9	242.4	242.0
75°	196.2	195.3	192.3	190.3	189.4
77.5°	143.5	144.8	141.3	140.5	140.3
80°	108.9	111.8	109.9	109.9	108.9
82.5°	78.3	82.7	81.6	81.6	81.4
85°	39.2	44.0	44.2	46.1	46.1
87.5°	11.0	15.6	18.1	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	107.9	254.1	123.5	83.8
95°	39.3	199.4	682.7	443.9	311.0
97.5°	69.7	220.8	899.1	866.2	743.6
100°	93.3	234.2	1018.3	1074.9	974.1
102.5°	115.6	246.2	1096.9	1248.7	1188.9
105°	153.9	265.9	1157.4	1497.5	1478.3
107.5°	191.5	289.2	1121.7	1697.1	1742.2
110°	217.7	309.0	1064.1	1783.1	1867.9



TEST NUMBER: P521621

CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	328.8	1013.0	1804.1	1949.1
115°	281.6	360.0	929.9	1762.9	1966.2
117.5°	318.9	392.9	881.1	1668.1	1906.2
120°	343.8	412.6	849.7	1593.7	1843.4
122.5°	370.0	433.7	830.0	1517.6	1763.5
125°	401.1	461.9	807.1	1402.0	1646.9
127.5°	431.9	489.2	791.0	1304.1	1519.2
130°	450.2	506.2	785.8	1235.9	1447.2
132.5°	467.2	525.8	777.9	1186.7	1366.0
135°	492.8	550.4	774.3	1105.6	1272.0
137.5°	517.0	574.9	762.9	1050.6	1176.1
140°	535.3	588.2	762.9	1011.1	1126.3
142.5°	553.7	606.5	756.3	976.6	1073.9
145°	582.8	626.0	759.6	939.7	1013.4
147.5°	610.0	651.9	757.6	897.2	958.0
150°	627.0	663.8	762.9	878.6	926.6
152.5°	645.3	680.9	761.6	858.8	901.7
155°	667.9	696.7	769.4	832.3	862.8
157.5°	695.1	719.8	767.8	822.2	840.2
160°	705.6	726.4	774.3	809.0	821.8
162.5°	722.6	740.9	771.7	805.0	812.7
165°	738.3	749.5	779.3	791.0	802.2
167.5°	757.6	765.0	777.3	790.1	790.4
170°	762.9	767.7	782.5	781.1	789.1
172.5°	772.1	775.6	778.6	782.1	777.3
175°	780.9	777.7	780.9	774.3	772.7
177.5°	779.3	779.3	776.6	773.9	767.5
180°	772.7	772.7	772.7	772.7	772.7

(END OF REPORT)