

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: P520284

Luminaire Tested: **SQ4-F-125U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520284  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

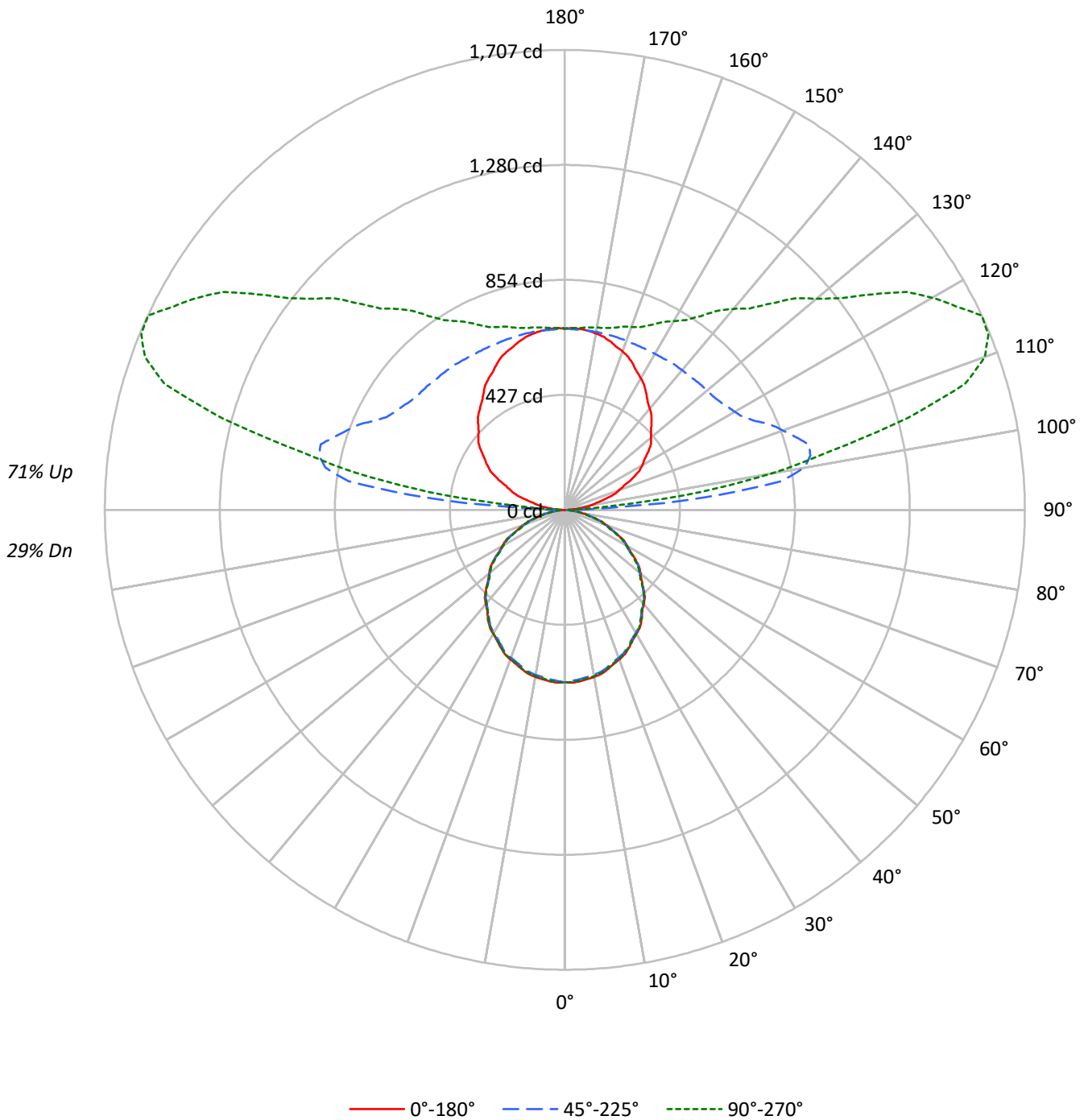
Lumens per Lamp: N/A  
Luminaire Lumens: 6092.2 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	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°	5905	5905	5905
5°	5920	5849	5896
10°	5899	5827	5868
15°	5859	5785	5835
20°	5804	5737	5779
25°	5738	5669	5722
30°	5659	5613	5650
35°	5598	5530	5558
40°	5491	5438	5449
45°	5377	5333	5333
50°	5263	5215	5190
55°	5141	5072	5044
60°	4949	4870	4838
65°	4713	4619	4563
70°	4392	4297	4205
75°	3939	3818	3725
80°	3188	3145	3050
85°	1895	2181	2265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	1.0
10°-20°	172.0	2.8
20°-30°	258.3	4.2
30°-40°	308.3	5.1
40°-50°	315.9	5.2
50°-60°	281.8	4.6
60°-70°	209.8	3.4
70°-80°	113.9	1.9
80°-90°	27.9	0.5
90°-100°	314.8	5.2
100°-110°	847.9	13.9
110°-120°	889.9	14.6
120°-130°	722.1	11.9
130°-140°	566.3	9.3
140°-150°	434.8	7.1
150°-160°	312.6	5.1
160°-170°	191.0	3.1
170°-180°	64.4	1.1
0°-30°	490.6	8.1
0°-40°	799.0	13.1
0°-60°	1396.7	22.9
0°-90°	1748.4	28.7
90°-120°	2052.6	33.7
90°-150°	3775.8	62.0
90°-180°	4344.0	71.3
0°-180°	6092.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	639	638	632	637	637	61
15°	613	612	606	611	611	173
25°	564	562	557	560	562	260
35°	497	495	491	491	494	310
45°	412	413	409	408	409	318
55°	320	320	315	313	314	285
65°	216	215	212	209	209	214
75°	110	110	107	105	104	117
85°	18	20	21	21	21	25
90°	2	5	10	11	11	4
95°	48	171	516	264	182	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	681	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	640.0	640.0	640.0	640.0	640.0
2.5°	642.0	640.7	635.2	640.0	639.4
5°	639.2	638.3	631.5	637.4	636.6
7.5°	634.5	632.9	626.1	632.0	631.1
10°	629.7	628.0	622.0	627.1	626.3
12.5°	623.6	622.6	615.9	621.0	620.8
15°	613.4	611.7	605.7	610.9	610.9
17.5°	600.1	599.1	593.2	598.1	597.6
20°	591.1	589.5	584.3	588.6	588.6
22.5°	580.2	579.2	574.1	577.6	578.3
25°	563.7	562.1	556.9	560.4	562.1
27.5°	545.6	544.3	540.0	542.2	543.4
30°	531.2	531.2	526.9	527.8	530.3
32.5°	518.2	518.2	513.2	514.1	515.3
35°	497.0	495.3	491.0	491.0	493.5
37.5°	472.2	471.4	468.7	468.2	468.9
40°	455.9	455.0	451.5	452.4	452.4
42.5°	439.4	438.5	435.0	433.9	435.2
45°	412.1	413.0	408.7	407.8	408.7
47.5°	385.3	385.3	381.8	379.4	380.7
50°	366.7	366.7	363.3	361.6	361.6
52.5°	347.5	348.2	344.0	341.7	342.4
55°	319.6	319.6	315.3	312.8	313.6
57.5°	288.7	288.7	284.5	281.9	283.4
60°	268.2	268.2	263.9	261.3	262.2
62.5°	247.6	247.6	243.4	240.8	240.9
65°	215.9	215.1	211.6	209.0	209.0
67.5°	185.4	183.2	180.6	177.2	177.2
70°	162.8	161.9	159.3	155.9	155.9
72.5°	142.2	140.7	138.1	135.4	135.4
75°	110.5	109.6	107.1	105.4	104.5
77.5°	79.2	78.5	78.3	75.9	76.6
80°	60.0	60.0	59.2	57.4	57.4
82.5°	42.8	43.5	42.0	41.6	40.9
85°	17.9	19.6	20.6	21.4	21.4
87.5°	3.7	6.4	6.9	7.7	7.7
90°	1.7	5.0	10.3	11.1	11.1
92.5°	20.9	73.9	146.0	70.4	48.8
95°	48.0	171.2	516.1	263.8	182.5
97.5°	76.7	196.0	809.3	676.1	509.8
100°	98.6	205.8	902.6	944.4	783.5
102.5°	119.8	219.7	933.4	1145.3	1013.2
105°	156.9	244.0	937.8	1402.9	1316.7
107.5°	191.8	269.6	897.8	1535.3	1557.6
110°	215.1	288.9	861.5	1576.5	1657.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.9	308.3	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.9	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.8	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.3
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.8	1011.7	1162.5
135°	455.2	508.0	681.4	956.0	1082.6
137.5°	475.9	526.5	679.3	909.0	1012.9
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	932.0
145°	526.3	567.4	672.8	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.8	667.9	753.7	785.7
155°	597.5	619.3	666.9	733.4	756.9
157.5°	614.7	631.7	667.0	719.2	734.9
160°	625.8	640.0	667.7	710.8	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.1	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.1	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.1
177.5°	675.6	674.3	670.9	676.3	674.9
180°	672.8	672.8	672.8	672.8	672.8

(END OF REPORT)