

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: P519996

Luminaire Tested: **SQ4-F-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519996  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

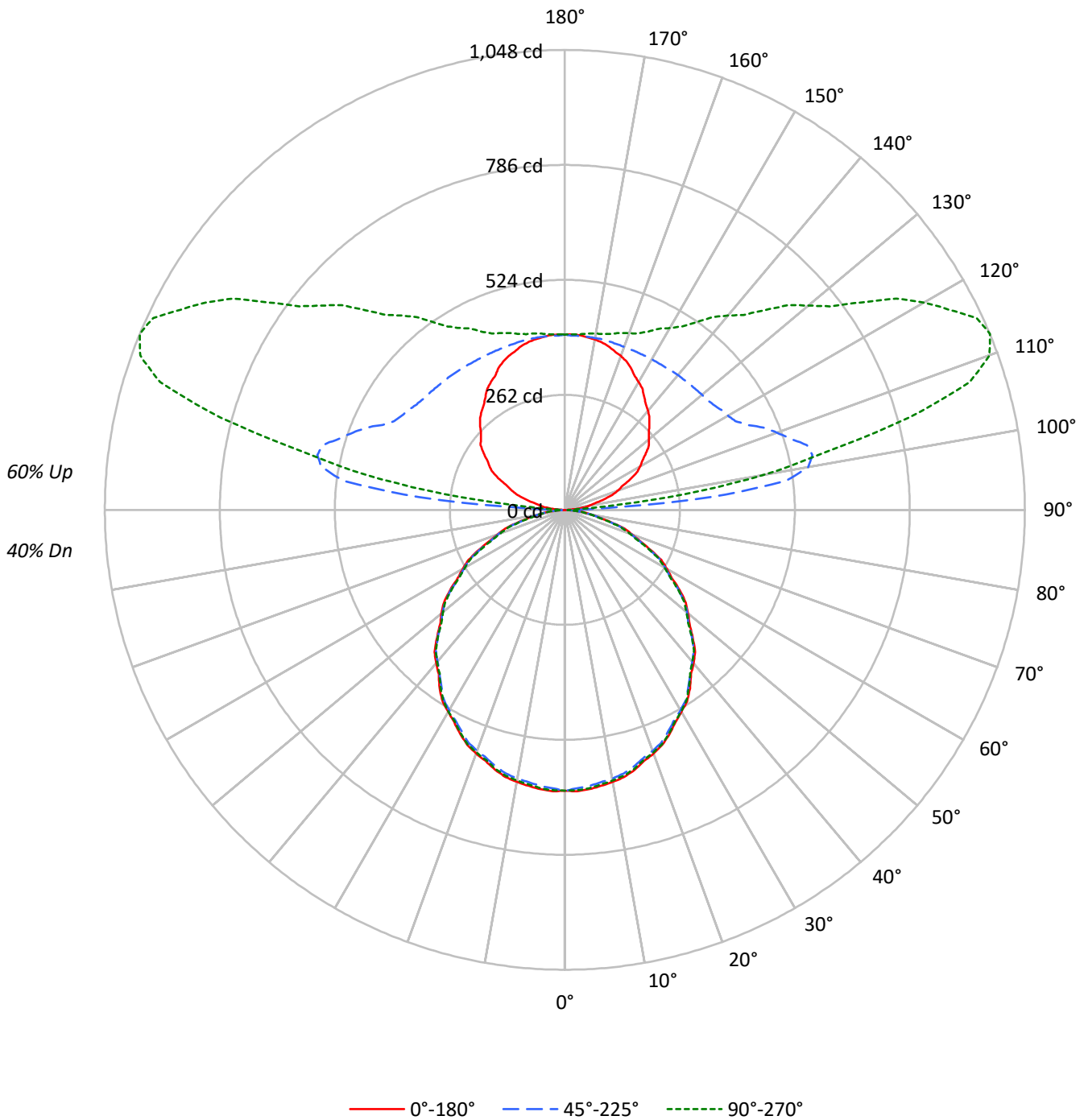
Lumens per Lamp: N/A  
Luminaire Lumens: 4349.1 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 34.7  
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	50	44	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	19	16	14
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12	10

**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	1.4
10°-20°	172.0	4.0
20°-30°	258.3	5.9
30°-40°	308.3	7.1
40°-50°	315.9	7.3
50°-60°	281.8	6.5
60°-70°	209.8	4.8
70°-80°	113.9	2.6
80°-90°	27.4	0.6
90°-100°	188.3	4.3
100°-110°	518.1	11.9
110°-120°	534.8	12.3
120°-130°	428.5	9.9
130°-140°	336.5	7.7
140°-150°	257.9	5.9
150°-160°	185.4	4.3
160°-170°	113.4	2.6
170°-180°	38.2	0.9
0°-30°	490.6	11.3
0°-40°	799.0	18.4
0°-60°	1396.7	32.1
0°-90°	1747.8	40.2
90°-120°	1241.3	28.5
90°-150°	2264.2	52.1
90°-180°	2601.0	59.8
0°-180°	4349.1	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°	1	3	6	8	8	2
95°	28	103	333	142	91	30
105°	93	142	571	869	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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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°	3.5	6.1	6.0	7.0	7.0
90°	0.9	3.3	6.0	7.6	7.6
92.5°	11.7	50.1	86.9	33.4	27.4
95°	28.1	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.5	276.3
100°	58.6	120.9	563.3	568.6	463.8
102.5°	70.8	129.2	577.6	705.3	609.3
105°	92.6	142.4	570.9	869.4	811.3
107.5°	113.4	158.8	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.1
115°	163.9	199.7	458.0	911.8	1034.8
117.5°	185.1	217.9	437.9	848.5	987.5
120°	198.0	229.6	429.0	801.0	944.8
122.5°	209.5	241.1	422.9	759.4	895.8
125°	225.9	257.5	415.4	702.8	823.3
127.5°	241.6	271.7	410.5	655.5	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.7	602.8	689.9
135°	272.7	302.6	403.6	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.1
140°	294.8	320.5	401.0	522.0	577.7
142.5°	302.9	326.7	399.7	505.6	553.2
145°	315.1	336.8	397.6	484.3	521.6
147.5°	328.3	346.8	396.6	465.4	495.3
150°	336.5	353.0	395.9	455.0	478.3
152.5°	343.9	359.2	395.3	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.4	435.0
160°	373.0	380.4	395.1	421.6	428.2
162.5°	378.4	384.5	395.7	417.5	422.7
165°	385.7	390.7	396.7	413.0	415.4
167.5°	390.8	394.7	397.6	409.1	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.0
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.2	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)