

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: P563374

Luminaire Tested: **SQ4-PP3-075U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563374  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

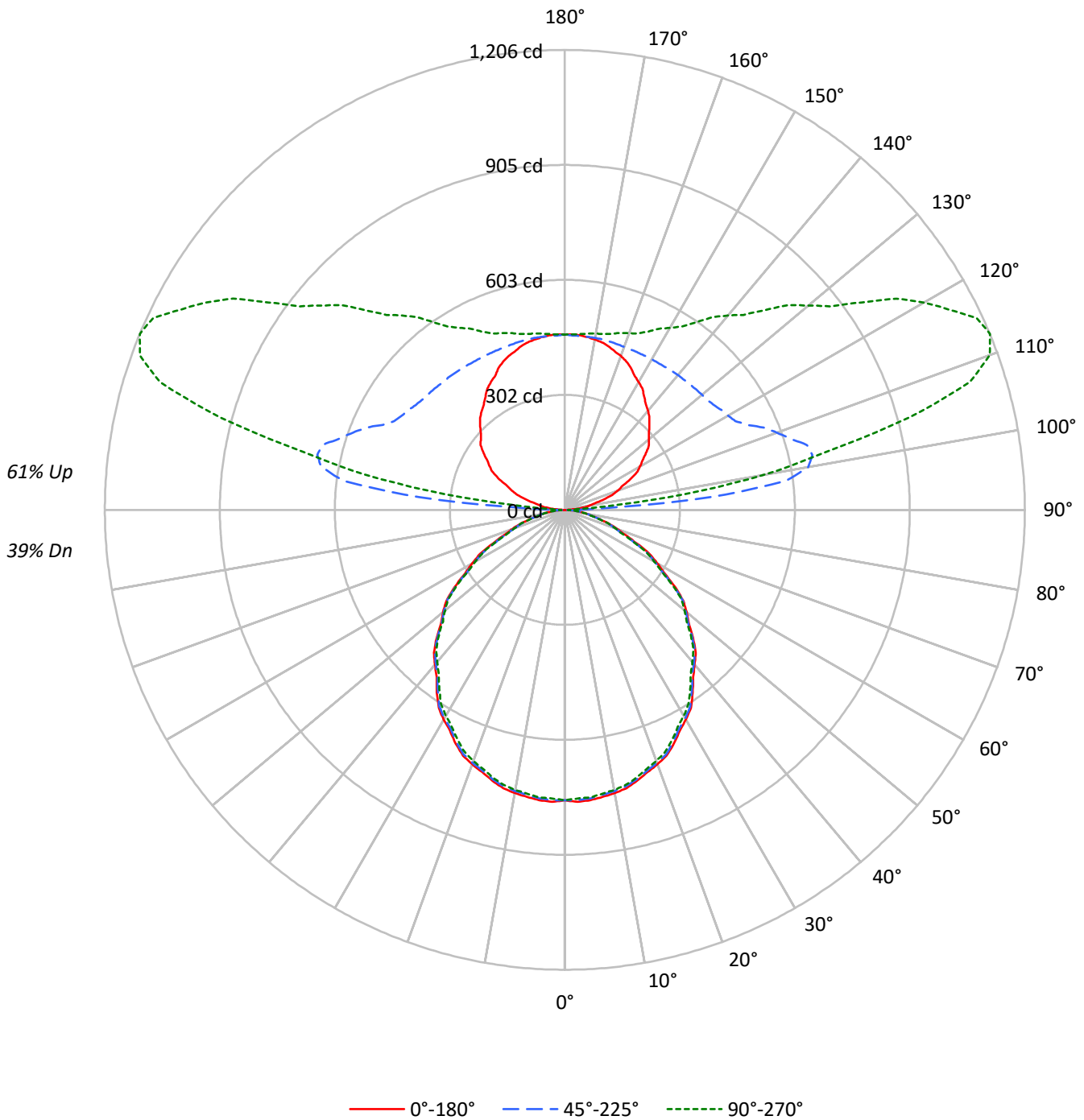
Lumens per Lamp: N/A  
Luminaire Lumens: 4944.3 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6891	6843	6775
30°	6763	6728	6642
35°	6586	6540	6458
40°	6375	6335	6263
45°	6202	6157	6097
50°	5978	5941	5882
55°	5668	5594	5551
60°	5161	5014	4988
65°	4547	4357	4342
70°	3925	3763	3763
75°	3379	3333	3283
80°	2981	3013	2943
85°	2329	2541	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	1.5
10°-20°	205.6	4.2
20°-30°	308.0	6.2
30°-40°	361.3	7.3
40°-50°	362.4	7.3
50°-60°	309.2	6.3
60°-70°	201.6	4.1
70°-80°	101.2	2.0
80°-90°	29.2	0.6
90°-100°	216.8	4.4
100°-110°	596.3	12.1
110°-120°	615.5	12.4
120°-130°	493.1	10.0
130°-140°	387.3	7.8
140°-150°	296.8	6.0
150°-160°	213.4	4.3
160°-170°	130.5	2.6
170°-180°	44.0	0.9
0°-30°	585.7	11.8
0°-40°	947.0	19.2
0°-60°	1618.6	32.7
0°-90°	1950.5	39.4
90°-120°	1428.6	28.9
90°-150°	2605.9	52.7
90°-180°	2994.0	60.6
0°-180°	4944.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	757	760	757	757	73
15°	735	728	731	728	727	207
25°	677	669	672	666	666	311
35°	585	579	581	574	573	365
45°	475	472	472	467	467	366
55°	352	351	348	346	345	313
65°	208	204	200	198	199	208
75°	95	95	94	93	92	103
85°	22	24	24	24	24	26
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	761.6	761.6	761.6	761.6	761.6
2.5°	766.4	760.2	761.6	760.5	757.4
5°	764.3	757.1	759.6	757.0	757.0
7.5°	759.1	751.3	753.7	751.1	750.9
10°	754.3	746.5	748.9	746.3	745.6
12.5°	747.3	739.5	742.5	739.3	739.2
15°	734.9	727.7	730.9	728.2	726.9
17.5°	720.9	713.1	716.9	713.2	712.6
20°	710.2	702.4	706.2	700.9	700.9
22.5°	697.4	689.6	693.9	687.0	687.0
25°	676.9	669.0	672.2	666.2	665.5
27.5°	652.4	644.7	648.0	641.2	641.1
30°	634.8	627.6	631.5	624.1	623.5
32.5°	615.6	608.9	611.7	604.3	603.7
35°	584.7	578.9	580.7	574.0	573.4
37.5°	552.3	546.3	548.4	542.7	542.4
40°	529.3	525.4	526.0	521.3	520.0
42.5°	508.0	503.5	504.1	499.4	499.2
45°	475.3	472.0	471.9	467.3	467.3
47.5°	440.6	438.1	437.4	433.5	433.3
50°	416.5	414.6	413.9	410.5	409.8
52.5°	391.4	390.5	388.2	385.4	385.3
55°	352.4	351.1	347.8	345.8	345.1
57.5°	310.1	307.5	303.7	300.8	301.3
60°	279.7	277.1	271.7	270.3	270.3
62.5°	250.3	247.2	241.8	239.9	241.0
65°	208.3	204.3	199.6	198.3	198.9
67.5°	170.1	166.6	161.4	161.4	160.9
70°	145.5	143.6	139.5	139.5	139.5
72.5°	123.6	122.7	119.8	119.7	119.2
75°	94.8	94.8	93.5	92.8	92.1
77.5°	71.0	71.3	70.6	69.9	68.8
80°	56.1	57.4	56.7	56.1	55.4
82.5°	42.2	43.5	43.4	42.2	42.1
85°	22.0	24.0	24.0	24.0	24.0
87.5°	6.1	8.7	9.9	10.3	10.8
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)