

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: P563378

Luminaire Tested: **SQ4-PP3-075U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563378  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

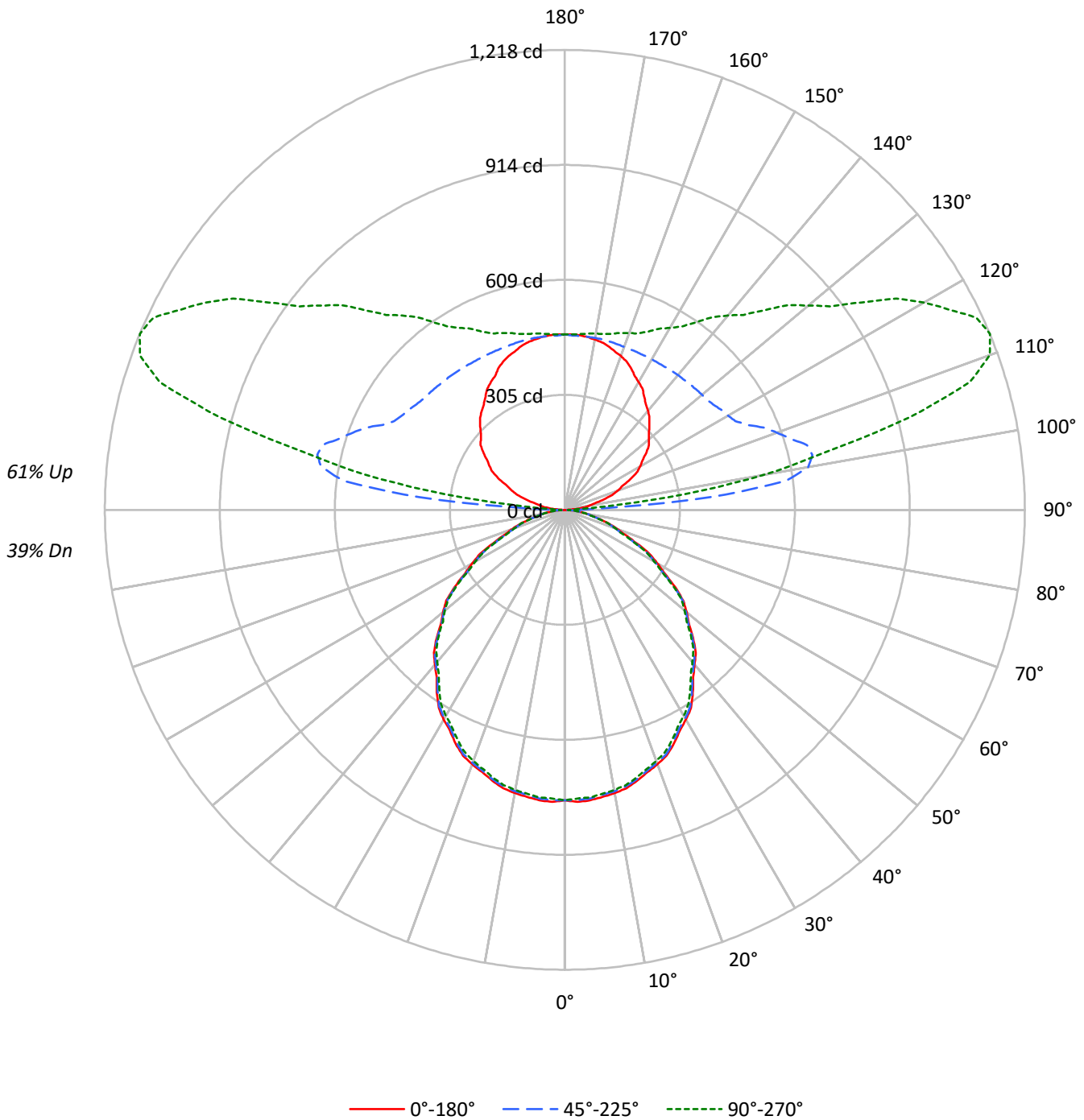
Lumens per Lamp: N/A  
Luminaire Lumens: 4994.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7090	7052	7013
20°	7044	7003	6950
25°	6960	6911	6843
30°	6831	6795	6709
35°	6652	6607	6524
40°	6440	6399	6325
45°	6263	6220	6159
50°	6038	6000	5942
55°	5726	5651	5607
60°	5213	5063	5039
65°	4593	4401	4386
70°	3965	3801	3801
75°	3411	3365	3315
80°	3007	3044	2975
85°	2350	2572	2572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	1.5
10°-20°	207.7	4.2
20°-30°	311.1	6.2
30°-40°	364.9	7.3
40°-50°	366.1	7.3
50°-60°	312.3	6.3
60°-70°	203.7	4.1
70°-80°	102.2	2.0
80°-90°	29.5	0.6
90°-100°	218.9	4.4
100°-110°	602.3	12.1
110°-120°	621.7	12.4
120°-130°	498.1	10.0
130°-140°	391.2	7.8
140°-150°	299.8	6.0
150°-160°	215.6	4.3
160°-170°	131.8	2.6
170°-180°	44.4	0.9
0°-30°	591.6	11.8
0°-40°	956.5	19.2
0°-60°	1634.8	32.7
0°-90°	1970.1	39.4
90°-120°	1442.9	28.9
90°-150°	2632.1	52.7
90°-180°	3024.0	60.6
0°-180°	4994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	765	767	765	765	73
15°	742	735	738	736	734	209
25°	684	676	679	673	672	314
35°	591	585	587	580	579	369
45°	480	477	477	472	472	370
55°	356	355	351	349	349	316
65°	210	206	202	200	201	210
75°	96	96	94	94	93	104
85°	22	24	24	24	24	26
90°	1	4	7	9	9	3
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769.3	769.3	769.3	769.3	769.3
2.5°	774.1	767.8	769.3	768.1	765.0
5°	772.0	764.7	767.3	764.6	764.6
7.5°	766.7	758.8	761.3	758.6	758.5
10°	761.9	754.0	756.5	753.8	753.1
12.5°	754.9	747.0	750.0	746.8	746.6
15°	742.3	735.1	738.3	735.5	734.2
17.5°	728.2	720.3	724.1	720.3	719.8
20°	717.4	709.5	713.3	707.9	707.9
22.5°	704.4	696.5	700.9	693.9	693.9
25°	683.7	675.8	678.9	672.9	672.2
27.5°	659.0	651.2	654.5	647.7	647.5
30°	641.2	633.9	637.8	630.4	629.7
32.5°	621.8	615.0	617.9	610.4	609.8
35°	590.6	584.7	586.6	579.8	579.2
37.5°	557.9	551.8	553.9	548.1	547.9
40°	534.7	530.7	531.3	526.5	525.2
42.5°	513.1	508.6	509.2	504.4	504.2
45°	480.0	476.8	476.7	472.0	472.0
47.5°	445.0	442.5	441.8	437.8	437.7
50°	420.7	418.7	418.0	414.6	414.0
52.5°	395.4	394.4	392.1	389.3	389.2
55°	356.0	354.7	351.3	349.2	348.6
57.5°	313.2	310.6	306.8	303.8	304.3
60°	282.5	279.9	274.4	273.1	273.1
62.5°	252.8	249.7	244.2	242.3	243.4
65°	210.4	206.4	201.6	200.3	200.9
67.5°	171.8	168.2	163.0	163.0	162.5
70°	147.0	145.0	140.9	140.9	140.9
72.5°	124.9	123.9	121.0	120.9	120.4
75°	95.7	95.7	94.4	93.7	93.0
77.5°	71.7	72.0	71.3	70.6	69.4
80°	56.6	58.0	57.3	56.6	56.0
82.5°	42.6	43.9	43.8	42.6	42.5
85°	22.2	24.2	24.3	24.3	24.3
87.5°	6.1	8.8	10.0	10.4	10.9
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)