

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: P564722

Luminaire Tested: **SQ4-PW1-075U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564722  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-050D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

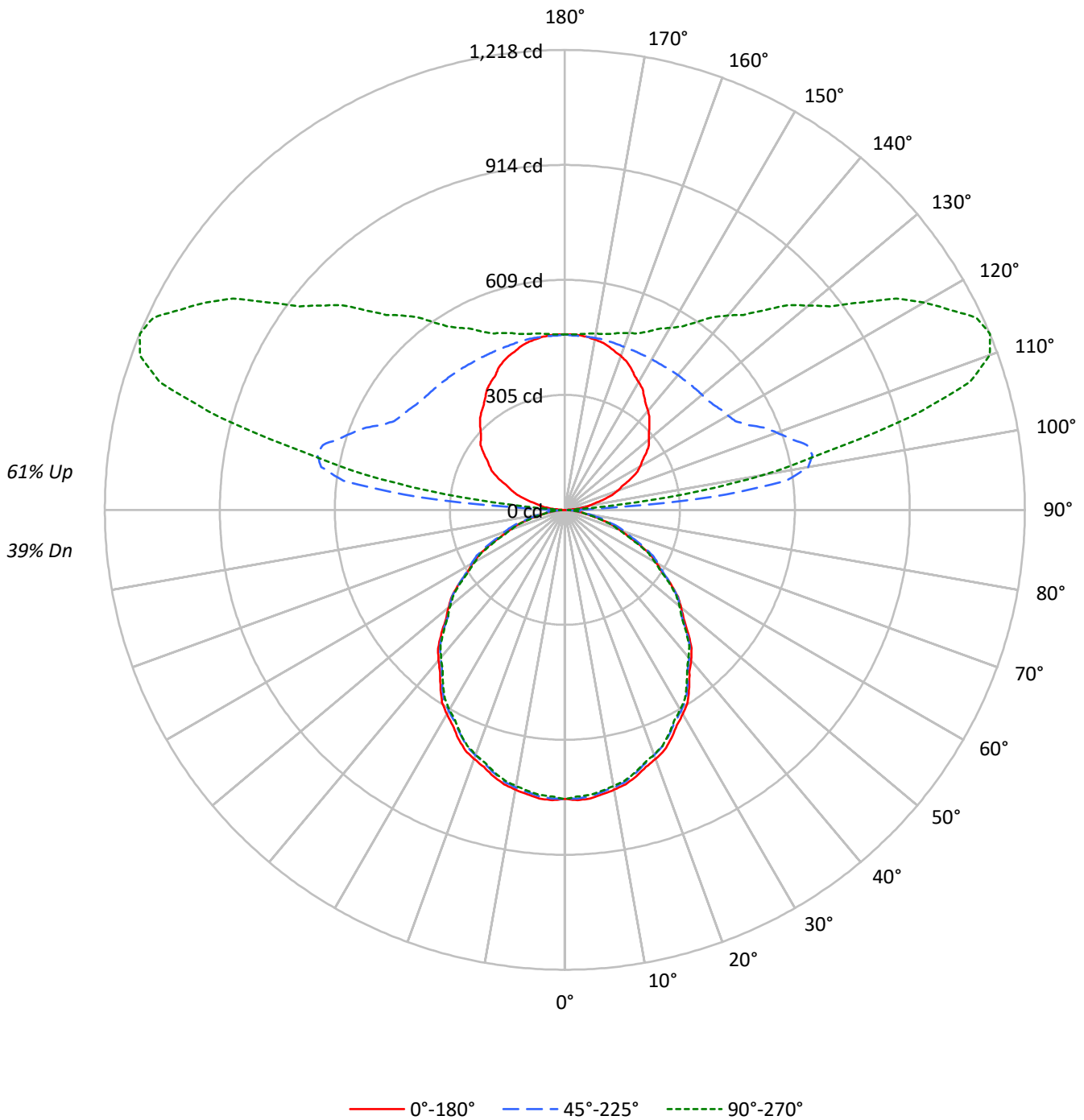
Lumens per Lamp: N/A  
Luminaire Lumens: 4972.5 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	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	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24				
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16				
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14				
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10				

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

	0°	45°	90°
0°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6977	6899	6873
20°	6892	6786	6774
25°	6796	6673	6653
30°	6653	6552	6509
35°	6464	6373	6334
40°	6263	6165	6140
45°	6019	5939	5913
50°	5769	5721	5683
55°	5500	5500	5413
60°	5165	5264	5076
65°	4726	4962	4609
70°	4165	4567	4057
75°	3558	4085	3461
80°	2758	3438	2795
85°	1789	2646	2361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	1.4
10°-20°	203.5	4.1
20°-30°	301.8	6.1
30°-40°	353.2	7.1
40°-50°	351.6	7.1
50°-60°	303.6	6.1
60°-70°	218.6	4.4
70°-80°	114.6	2.3
80°-90°	29.6	0.6
90°-100°	218.9	4.4
100°-110°	602.3	12.1
110°-120°	621.7	12.5
120°-130°	498.1	10.0
130°-140°	391.2	7.9
140°-150°	299.8	6.0
150°-160°	215.6	4.3
160°-170°	131.8	2.7
170°-180°	44.4	0.9
0°-30°	577.4	11.6
0°-40°	930.6	18.7
0°-60°	1585.9	31.9
0°-90°	1948.6	39.2
90°-120°	1442.9	29.0
90°-150°	2632.1	52.9
90°-180°	3024.0	60.8
0°-180°	4972.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	768	759	761	759	758	73
15°	730	721	722	721	720	206
25°	668	656	656	652	654	307
35°	574	566	566	560	562	359
45°	461	457	455	454	453	356
55°	342	341	342	337	336	305
65°	216	223	227	218	211	215
75°	100	109	115	107	97	107
85°	17	22	25	24	22	22
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°	765.4	765.4	765.4	765.4	765.4
2.5°	769.7	763.4	765.4	763.7	760.0
5°	767.5	758.9	761.4	759.3	758.0
7.5°	759.6	751.7	753.6	751.4	750.6
10°	752.6	744.7	746.5	743.8	742.5
12.5°	744.5	736.1	737.9	735.2	734.4
15°	730.4	721.1	722.3	720.9	719.6
17.5°	713.9	704.5	704.7	702.6	702.3
20°	702.0	692.1	691.2	688.6	689.9
22.5°	689.1	678.7	677.8	674.0	675.9
25°	667.6	656.4	655.5	651.5	653.5
27.5°	642.8	631.7	631.8	626.1	628.3
30°	624.5	613.9	615.0	608.4	611.0
32.5°	605.1	595.6	596.2	589.5	592.1
35°	573.9	566.0	565.8	560.5	562.4
37.5°	542.1	535.1	534.0	530.9	531.4
40°	520.0	514.0	511.9	509.8	509.8
42.5°	496.8	491.3	489.2	487.7	487.2
45°	461.3	457.3	455.2	453.8	453.2
47.5°	426.2	422.5	420.7	419.7	419.1
50°	401.9	399.3	398.6	396.5	395.9
52.5°	377.7	376.1	375.4	372.8	372.1
55°	341.9	341.3	341.9	337.2	336.5
57.5°	304.7	305.7	307.9	301.5	300.0
60°	279.9	282.5	285.3	277.8	275.1
62.5°	254.5	258.7	262.6	254.0	250.3
65°	216.5	223.1	227.3	218.3	211.1
67.5°	179.8	188.0	193.0	183.4	175.2
70°	154.4	163.7	169.3	159.6	150.4
72.5°	132.3	142.6	147.2	138.0	128.8
75°	99.8	109.0	114.6	107.0	97.1
77.5°	70.8	79.5	84.2	77.5	69.3
80°	51.9	61.2	64.7	59.2	52.6
82.5°	36.8	44.5	46.9	43.6	39.1
85°	16.9	22.1	25.0	23.6	22.3
87.5°	4.5	8.8	11.6	12.0	12.6
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)