

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: P564538

Luminaire Tested: **SQ4-PW1-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564538  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

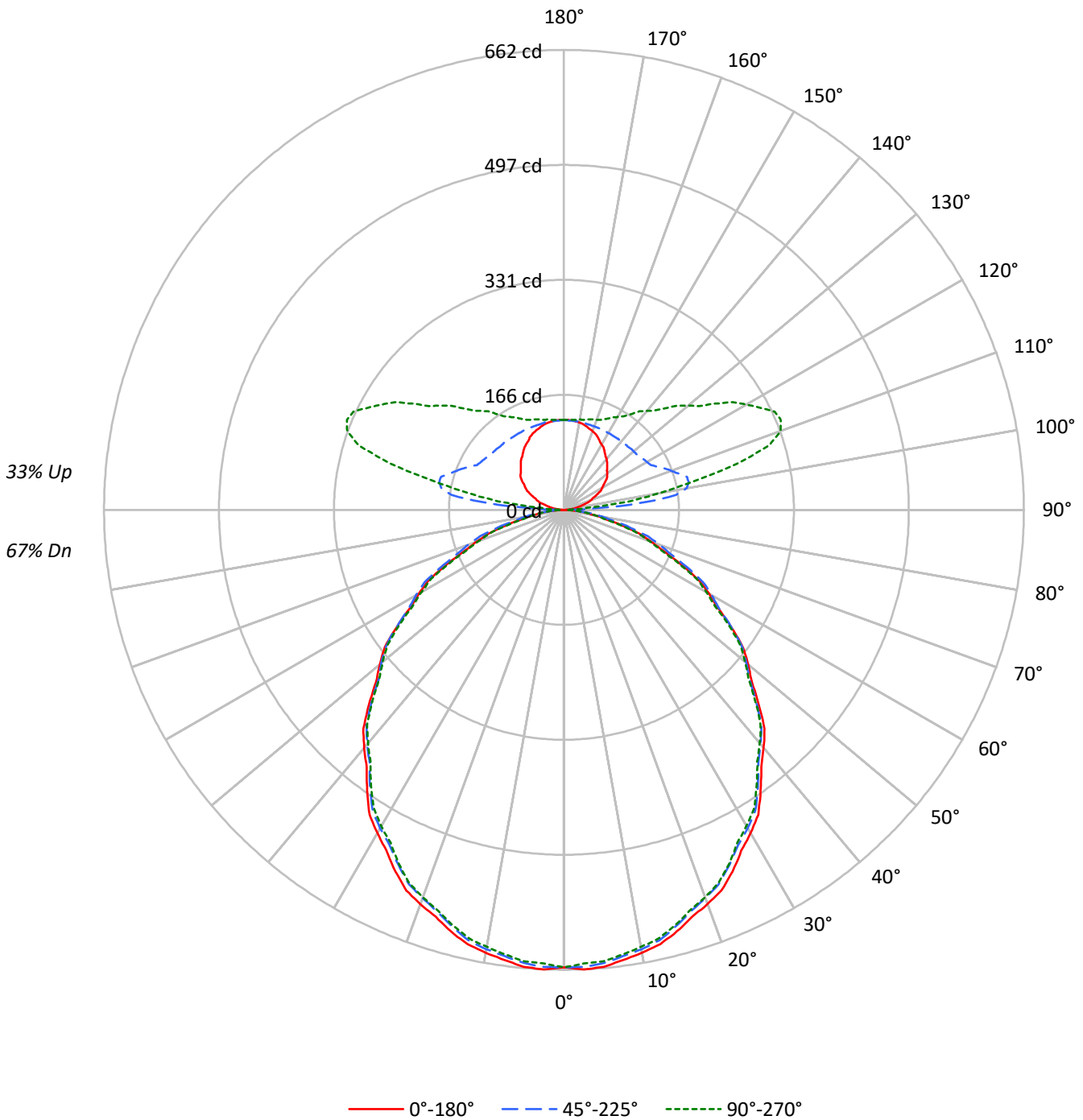
Lumens per Lamp: N/A  
Luminaire Lumens: 2515.2 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.1  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5846	5740	5722
30°	5723	5637	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4922	4887
55°	4731	4731	4657
60°	4443	4528	4368
65°	4065	4268	3965
70°	3582	3928	3491
75°	3062	3515	2977
80°	2375	2959	2407
85°	1535	2276	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	2.5
10°-20°	175.0	7.0
20°-30°	259.7	10.3
30°-40°	303.8	12.1
40°-50°	302.5	12.0
50°-60°	261.2	10.4
60°-70°	188.0	7.5
70°-80°	98.6	3.9
80°-90°	25.1	1.0
90°-100°	63.1	2.5
100°-110°	165.9	6.6
110°-120°	172.0	6.8
120°-130°	138.0	5.5
130°-140°	108.3	4.3
140°-150°	83.1	3.3
150°-160°	59.9	2.4
160°-170°	36.6	1.5
170°-180°	12.4	0.5
0°-30°	496.7	19.7
0°-40°	800.5	31.8
0°-60°	1364.2	54.2
0°-90°	1676.0	66.6
90°-120°	401.1	15.9
90°-150°	730.4	29.0
90°-180°	839.0	33.4
0°-180°	2515.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	653	655	653	652	63
15°	628	620	621	620	619	177
25°	574	565	564	560	562	264
35°	494	487	487	482	484	309
45°	397	393	392	390	390	306
55°	294	294	294	290	290	262
65°	186	192	196	188	182	185
75°	86	94	99	92	84	92
85°	14	19	22	20	19	19
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.2	656.7	658.4	657.0	653.8
5°	660.2	652.8	655.0	653.2	652.1
7.5°	653.5	646.7	648.2	646.4	645.7
10°	647.4	640.6	642.2	639.9	638.7
12.5°	640.5	633.2	634.8	632.4	631.8
15°	628.3	620.3	621.3	620.1	619.0
17.5°	614.1	606.1	606.2	604.4	604.1
20°	603.9	595.4	594.6	592.3	593.5
22.5°	592.8	583.8	583.0	579.8	581.4
25°	574.3	564.7	563.9	560.4	562.1
27.5°	553.0	543.5	543.5	538.6	540.4
30°	537.2	528.1	529.1	523.3	525.6
32.5°	520.5	512.3	512.8	507.1	509.4
35°	493.7	486.9	486.7	482.1	483.8
37.5°	466.3	460.3	459.3	456.7	457.1
40°	447.3	442.2	440.3	438.6	438.6
42.5°	427.3	422.7	420.8	419.5	419.1
45°	396.8	393.4	391.6	390.4	389.8
47.5°	366.6	363.5	361.9	361.1	360.5
50°	345.8	343.5	342.9	341.1	340.5
52.5°	324.9	323.5	322.9	320.7	320.1
55°	294.1	293.6	294.1	290.1	289.5
57.5°	262.1	263.0	264.9	259.4	258.0
60°	240.8	243.0	245.4	239.0	236.7
62.5°	218.9	222.6	225.9	218.5	215.3
65°	186.2	191.9	195.5	187.8	181.6
67.5°	154.7	161.7	166.0	157.8	150.7
70°	132.8	140.8	145.6	137.3	129.4
72.5°	113.8	122.7	126.6	118.7	110.8
75°	85.9	93.8	98.6	92.0	83.5
77.5°	60.9	68.4	72.4	66.7	59.6
80°	44.7	52.6	55.7	50.9	45.3
82.5°	31.7	38.3	40.4	37.5	33.6
85°	14.5	19.0	21.5	20.3	19.1
87.5°	3.9	7.4	10.1	9.5	9.9
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)