

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: P564523

Luminaire Tested: **SQ4-PW1-025U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564523  
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-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

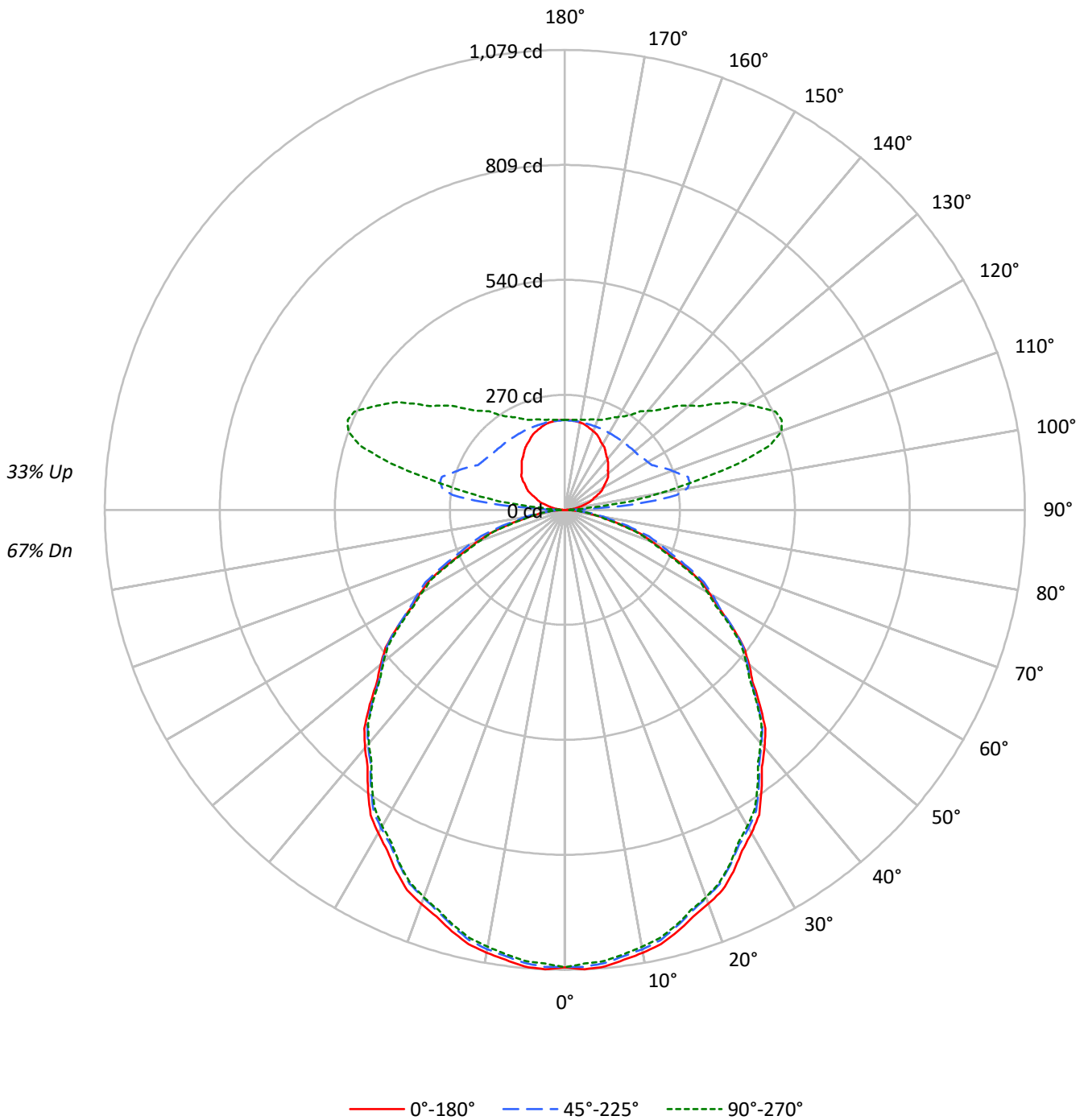
Lumens per Lamp: N/A  
Luminaire Lumens: 4098.5 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.9  
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	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°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6352	6236	6217
30°	6217	6123	6082
35°	6041	5955	5920
40°	5852	5761	5739
45°	5624	5551	5525
50°	5391	5346	5310
55°	5140	5140	5058
60°	4826	4919	4745
65°	4416	4637	4307
70°	3893	4268	3791
75°	3325	3819	3234
80°	2579	3213	2611
85°	1666	2470	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	2.5
10°-20°	285.2	7.0
20°-30°	423.1	10.3
30°-40°	495.1	12.1
40°-50°	492.9	12.0
50°-60°	425.6	10.4
60°-70°	306.4	7.5
70°-80°	160.7	3.9
80°-90°	41.0	1.0
90°-100°	102.8	2.5
100°-110°	270.3	6.6
110°-120°	280.3	6.8
120°-130°	224.9	5.5
130°-140°	176.4	4.3
140°-150°	135.4	3.3
150°-160°	97.5	2.4
160°-170°	59.7	1.5
170°-180°	20.2	0.5
0°-30°	809.4	19.7
0°-40°	1304.5	31.8
0°-60°	2222.9	54.2
0°-90°	2730.9	66.6
90°-120°	653.5	15.9
90°-150°	1190.2	29.0
90°-180°	1368.0	33.4
0°-180°	4098.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1076	1064	1067	1064	1062	102
15°	1024	1011	1012	1010	1009	289
25°	936	920	919	913	916	430
35°	804	793	793	786	788	503
45°	647	641	638	636	635	499
55°	479	478	479	473	472	428
65°	303	313	319	306	296	301
75°	140	153	161	150	136	150
85°	24	31	35	33	31	31
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1079.0	1070.1	1072.9	1070.5	1065.4
5°	1075.8	1063.7	1067.3	1064.4	1062.5
7.5°	1064.8	1053.7	1056.3	1053.2	1052.1
10°	1055.0	1043.9	1046.5	1042.6	1040.8
12.5°	1043.6	1031.8	1034.4	1030.5	1029.4
15°	1023.8	1010.8	1012.4	1010.5	1008.6
17.5°	1000.7	987.6	987.8	984.8	984.4
20°	984.1	970.2	968.9	965.2	967.0
22.5°	965.9	951.3	950.0	944.8	947.4
25°	935.9	920.1	918.8	913.2	916.0
27.5°	901.1	885.5	885.6	877.7	880.6
30°	875.4	860.6	862.1	852.8	856.4
32.5°	848.1	834.8	835.7	826.3	830.0
35°	804.5	793.4	793.1	785.6	788.4
37.5°	759.8	750.0	748.5	744.2	744.9
40°	728.8	720.5	717.5	714.7	714.7
42.5°	696.3	688.7	685.7	683.6	682.9
45°	646.6	641.0	638.1	636.2	635.2
47.5°	597.4	592.3	589.7	588.3	587.4
50°	563.4	559.7	558.7	555.8	554.9
52.5°	529.4	527.2	526.2	522.5	521.6
55°	479.3	478.3	479.3	472.6	471.7
57.5°	427.1	428.6	431.6	422.7	420.5
60°	392.3	396.0	399.9	389.4	385.7
62.5°	356.8	362.7	368.1	356.1	350.9
65°	303.4	312.7	318.6	306.0	295.9
67.5°	252.0	263.5	270.5	257.1	245.6
70°	216.5	229.4	237.3	223.7	210.8
72.5°	185.5	199.9	206.3	193.5	180.6
75°	139.9	152.8	160.7	150.0	136.1
77.5°	99.3	111.5	118.0	108.6	97.2
80°	72.8	85.7	90.7	83.0	73.7
82.5°	51.6	62.3	65.8	61.1	54.8
85°	23.6	31.0	35.0	33.0	31.2
87.5°	6.3	12.0	16.5	15.5	16.2
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



TEST NUMBER: P564523

CATALOG NUMBER: SQ4-PW1-025U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)