

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: P564626

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564626  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-050D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

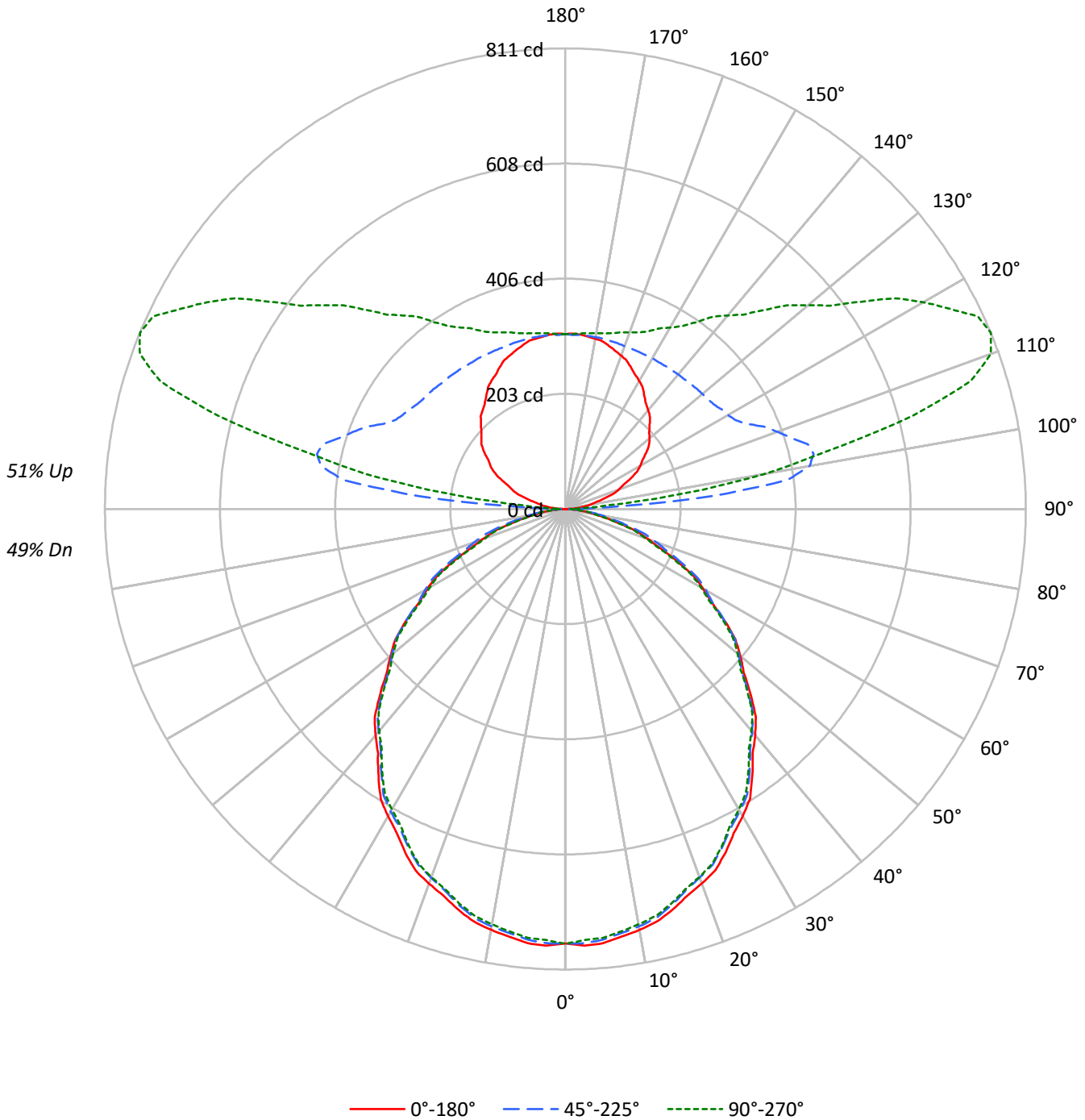
Lumens per Lamp: N/A  
Luminaire Lumens: 3960.6 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 28.5  
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



TEST NUMBER: P564626  
CATALOG NUMBER: SQ4-PW1-050U-050D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564626

CATALOG NUMBER: SQ4-PW1-050U-050D-840-1D-UNV-STD-W-4

**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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

**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



TEST NUMBER: P564626

CATALOG NUMBER: SQ4-PW1-050U-050D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	1.8
10°-20°	203.5	5.1
20°-30°	301.8	7.6
30°-40°	353.2	8.9
40°-50°	351.6	8.9
50°-60°	303.6	7.7
60°-70°	218.6	5.5
70°-80°	114.6	2.9
80°-90°	29.6	0.7
90°-100°	147.9	3.7
100°-110°	401.8	10.1
110°-120°	413.2	10.4
120°-130°	330.3	8.3
130°-140°	259.5	6.6
140°-150°	199.0	5.0
150°-160°	143.1	3.6
160°-170°	87.5	2.2
170°-180°	29.5	0.7
0°-30°	577.4	14.6
0°-40°	930.6	23.5
0°-60°	1585.9	40.0
0°-90°	1948.6	49.2
90°-120°	962.9	24.3
90°-150°	1751.8	44.2
90°-180°	2012.0	50.8
0°-180°	3960.6	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	2
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

TEST NUMBER: P564626

CATALOG NUMBER: SQ4-PW1-050U-050D-840-1D-UNV-STD-W-4

**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°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6



TEST NUMBER: P564626

CATALOG NUMBER: SQ4-PW1-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.4	140.8	378.3	739.6	811.1
115°	126.8	154.0	353.7	703.7	801.6
117.5°	142.3	168.2	338.1	652.9	763.1
120°	152.6	177.8	330.9	618.8	728.3
122.5°	161.3	186.5	326.2	584.6	690.2
125°	174.4	198.6	320.0	539.2	636.1
127.5°	186.1	210.1	316.7	504.8	588.0
130°	193.2	216.5	315.1	483.2	557.8
132.5°	200.3	223.6	313.5	464.8	530.9
135°	210.1	233.3	311.1	439.2	495.4
137.5°	220.6	241.7	309.9	416.6	463.9
140°	226.9	247.2	309.1	402.2	444.9
142.5°	233.2	252.0	308.3	391.0	426.6
145°	242.8	260.2	307.2	373.2	401.3
147.5°	253.5	268.4	306.2	359.2	381.3
150°	260.6	273.2	306.2	351.1	368.6
152.5°	266.1	277.2	305.4	343.9	358.3
155°	274.5	284.1	305.2	335.1	344.8
157.5°	282.6	290.1	305.2	329.1	336.5
160°	287.3	294.1	305.2	325.1	330.9
162.5°	292.1	297.3	306.0	321.9	326.2
165°	297.2	301.1	306.2	319.1	320.0
167.5°	302.6	304.5	307.2	315.7	316.5
170°	304.2	306.1	307.2	314.1	314.1
172.5°	305.8	306.9	307.2	312.5	312.5
175°	308.1	309.1	307.2	311.1	310.1
177.5°	308.9	308.9	306.6	309.7	308.1
180°	308.1	308.1	308.1	308.1	308.1

(END OF REPORT)