

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: P564707

Luminaire Tested: **SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564707  
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-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

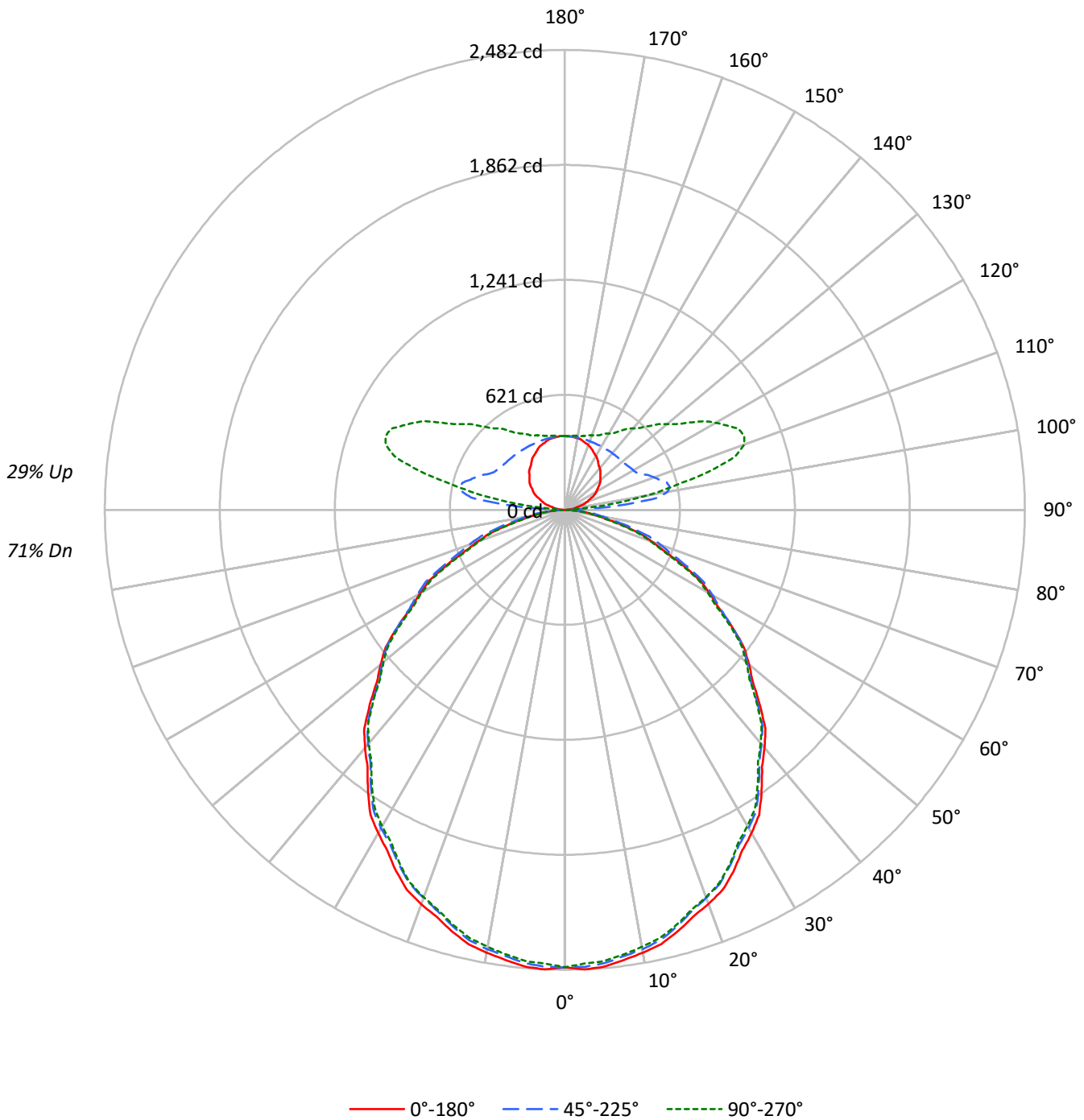
Lumens per Lamp: N/A  
Luminaire Lumens: 8877.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 87.8  
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: P564707  
CATALOG NUMBER: SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P564707

CATALOG NUMBER: SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6

**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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14997	14831	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12402	12299	12216
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9817	8722
75°	7650	8786	7443
80°	5933	7396	6007
85°	3839	5681	5067



TEST NUMBER: P564707

CATALOG NUMBER: SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	2.6
10°-20°	656.2	7.4
20°-30°	973.4	11.0
30°-40°	1139.0	12.8
40°-50°	1133.9	12.8
50°-60°	979.1	11.0
60°-70°	704.8	7.9
70°-80°	369.6	4.2
80°-90°	93.2	1.0
90°-100°	190.9	2.2
100°-110°	518.5	5.8
110°-120°	533.1	6.0
120°-130°	426.2	4.8
130°-140°	334.9	3.8
140°-150°	256.8	2.9
150°-160°	184.7	2.1
160°-170°	112.9	1.3
170°-180°	38.1	0.4
0°-30°	1862.0	21.0
0°-40°	3001.0	33.8
0°-60°	5114.0	57.6
0°-90°	6281.6	70.8
90°-120°	1242.5	14.0
90°-150°	2260.4	25.5
90°-180°	2596.0	29.2
0°-180°	8877.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2475	2447	2455	2449	2444	234
15°	2355	2326	2329	2325	2320	664
25°	2153	2117	2114	2101	2107	990
35°	1851	1825	1825	1807	1814	1157
45°	1488	1475	1468	1464	1461	1148
55°	1103	1100	1103	1087	1085	984
65°	698	719	733	704	681	692
75°	322	352	370	345	313	345
85°	54	71	80	76	72	72
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

TEST NUMBER: P564707

CATALOG NUMBER: SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2468.3	2468.3	2468.3	2468.3	2468.3
2.5°	2482.2	2461.8	2468.3	2462.8	2450.9
5°	2474.8	2447.2	2455.3	2448.6	2444.4
7.5°	2449.6	2424.1	2430.0	2423.0	2420.5
10°	2427.0	2401.5	2407.4	2398.6	2394.4
12.5°	2400.9	2373.7	2379.6	2370.8	2368.3
15°	2355.2	2325.5	2329.1	2324.7	2320.4
17.5°	2302.2	2272.0	2272.6	2265.6	2264.8
20°	2263.9	2232.0	2229.1	2220.5	2224.7
22.5°	2222.1	2188.5	2185.6	2173.6	2179.5
25°	2153.0	2116.8	2113.8	2100.9	2107.3
27.5°	2072.9	2037.2	2037.3	2019.2	2026.0
30°	2013.8	1979.8	1983.3	1961.8	1970.3
32.5°	1951.2	1920.5	1922.5	1900.9	1909.4
35°	1850.7	1825.2	1824.6	1807.3	1813.7
37.5°	1748.0	1725.5	1721.9	1712.0	1713.7
40°	1676.7	1657.6	1650.6	1644.1	1644.1
42.5°	1601.9	1584.5	1577.5	1572.7	1571.0
45°	1487.5	1474.8	1467.9	1463.5	1461.4
47.5°	1374.4	1362.5	1356.6	1353.5	1351.4
50°	1296.1	1287.6	1285.3	1278.7	1276.6
52.5°	1217.8	1212.7	1210.5	1202.1	1200.0
55°	1102.6	1100.5	1102.6	1087.3	1085.2
57.5°	982.5	985.9	993.0	972.4	967.3
60°	902.5	911.0	919.9	895.8	887.3
62.5°	820.7	834.4	846.8	819.2	807.3
65°	698.1	719.4	732.9	704.1	680.7
67.5°	579.8	606.1	622.4	591.4	565.0
70°	498.0	527.8	545.9	514.7	485.0
72.5°	426.7	459.9	474.5	445.1	415.4
75°	321.9	351.6	369.7	345.1	313.2
77.5°	228.3	256.4	271.4	249.9	223.6
80°	167.5	197.2	208.8	190.9	169.6
82.5°	118.7	143.4	151.4	140.6	126.1
85°	54.4	71.4	80.5	76.0	71.8
87.5°	14.2	26.8	34.8	35.4	37.1
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

TEST NUMBER: P564707

CATALOG NUMBER: SQ4-PW1-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)