

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: P564803

Luminaire Tested: **SQ4-PW1-075U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564803  
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-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

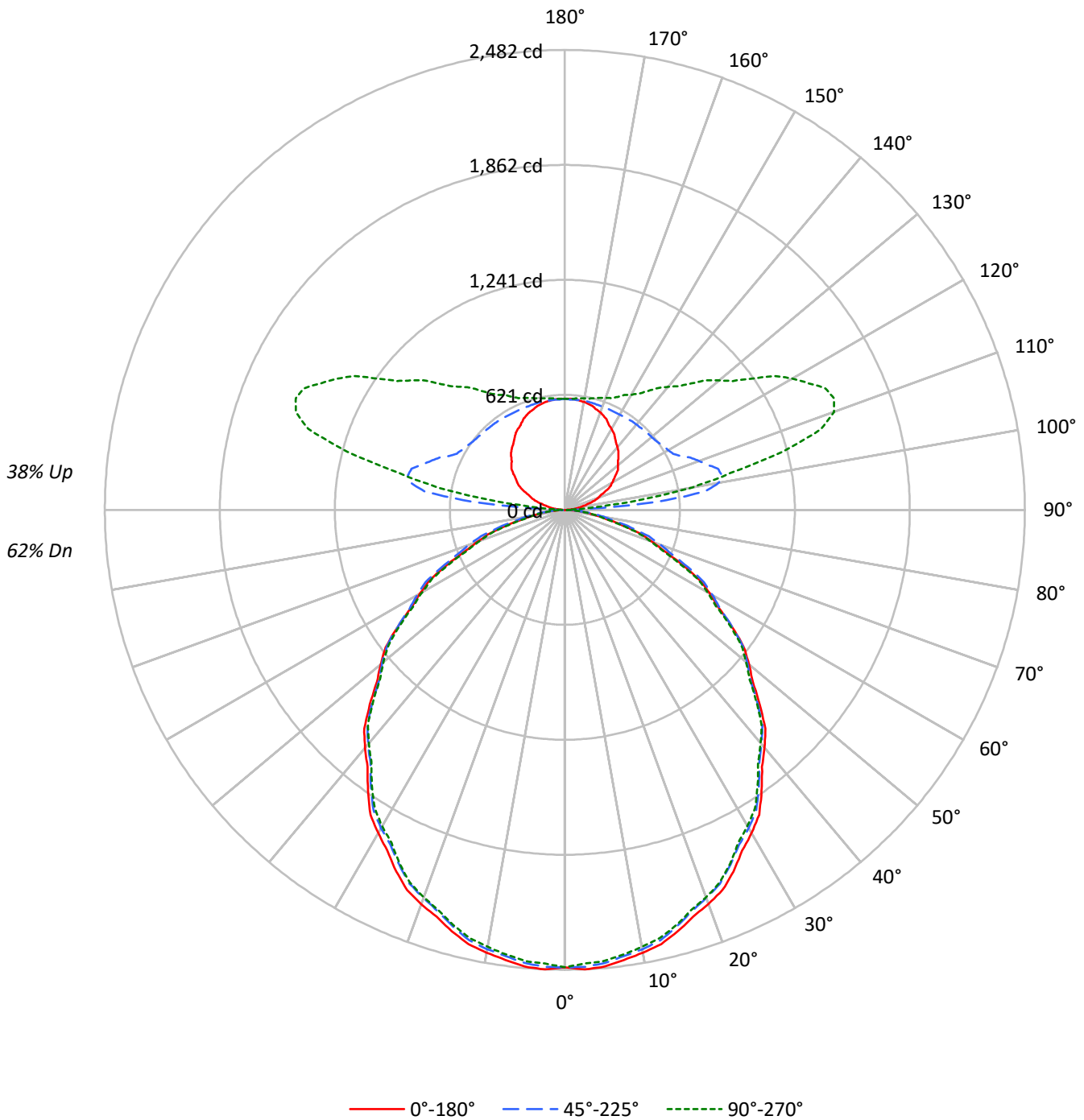
Lumens per Lamp: N/A  
Luminaire Lumens: 10183.5 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	2.3
10°-20°	656.2	6.4
20°-30°	973.4	9.6
30°-40°	1139.0	11.2
40°-50°	1133.9	11.1
50°-60°	979.1	9.6
60°-70°	704.8	6.9
70°-80°	369.6	3.6
80°-90°	93.2	0.9
90°-100°	282.5	2.8
100°-110°	777.2	7.6
110°-120°	802.2	7.9
120°-130°	642.7	6.3
130°-140°	504.8	5.0
140°-150°	386.9	3.8
150°-160°	278.2	2.7
160°-170°	170.1	1.7
170°-180°	57.3	0.6
0°-30°	1862.0	18.3
0°-40°	3001.0	29.5
0°-60°	5114.0	50.2
0°-90°	6281.6	61.7
90°-120°	1861.9	18.3
90°-150°	3396.4	33.4
90°-180°	3902.0	38.3
0°-180°	10183.5	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	5
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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**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°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)