

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: P565091

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565091  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

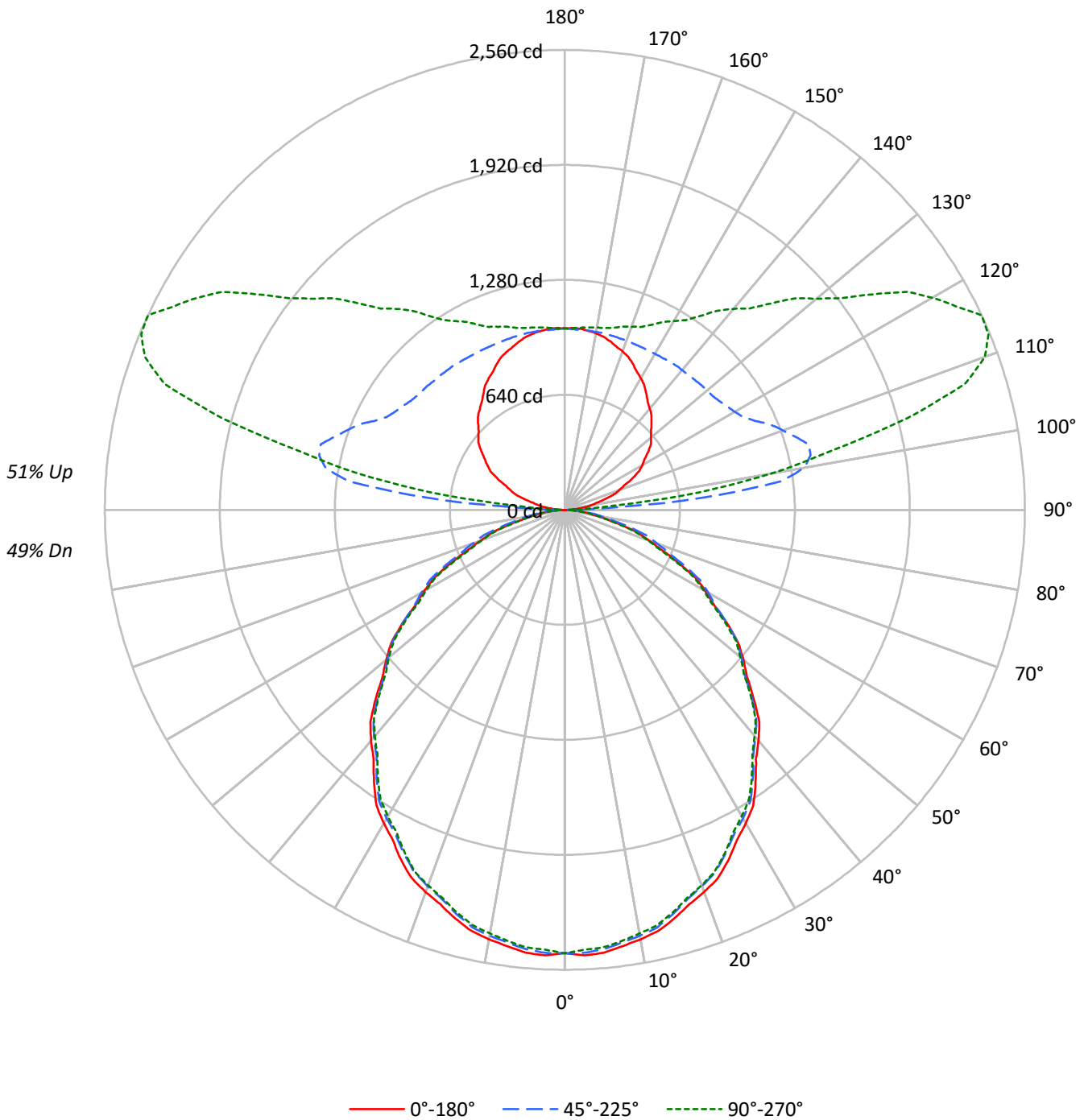
Lumens per Lamp: N/A  
Luminaire Lumens: 12798.2 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	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	31	29	25
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	25	46	35	29	24	31	25	21	26	22	19	22	18	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°	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	1.8
10°-20°	656.2	5.1
20°-30°	973.4	7.6
30°-40°	1139.0	8.9
40°-50°	1133.9	8.9
50°-60°	979.1	7.7
60°-70°	704.8	5.5
70°-80°	369.6	2.9
80°-90°	94.0	0.7
90°-100°	472.2	3.7
100°-110°	1271.9	9.9
110°-120°	1334.8	10.4
120°-130°	1083.2	8.5
130°-140°	849.5	6.6
140°-150°	652.2	5.1
150°-160°	468.9	3.7
160°-170°	286.5	2.2
170°-180°	96.6	0.8
0°-30°	1862.0	14.5
0°-40°	3001.0	23.4
0°-60°	5114.0	40.0
0°-90°	6282.4	49.1
90°-120°	3078.9	24.1
90°-150°	5663.8	44.3
90°-180°	6516.0	50.9
0°-180°	12798.2	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°	3	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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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°	14.4	27.3	36.1	36.4	38.1
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)