

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: P565068

Luminaire Tested: **SQ4-PW1-125U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565068  
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-100D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

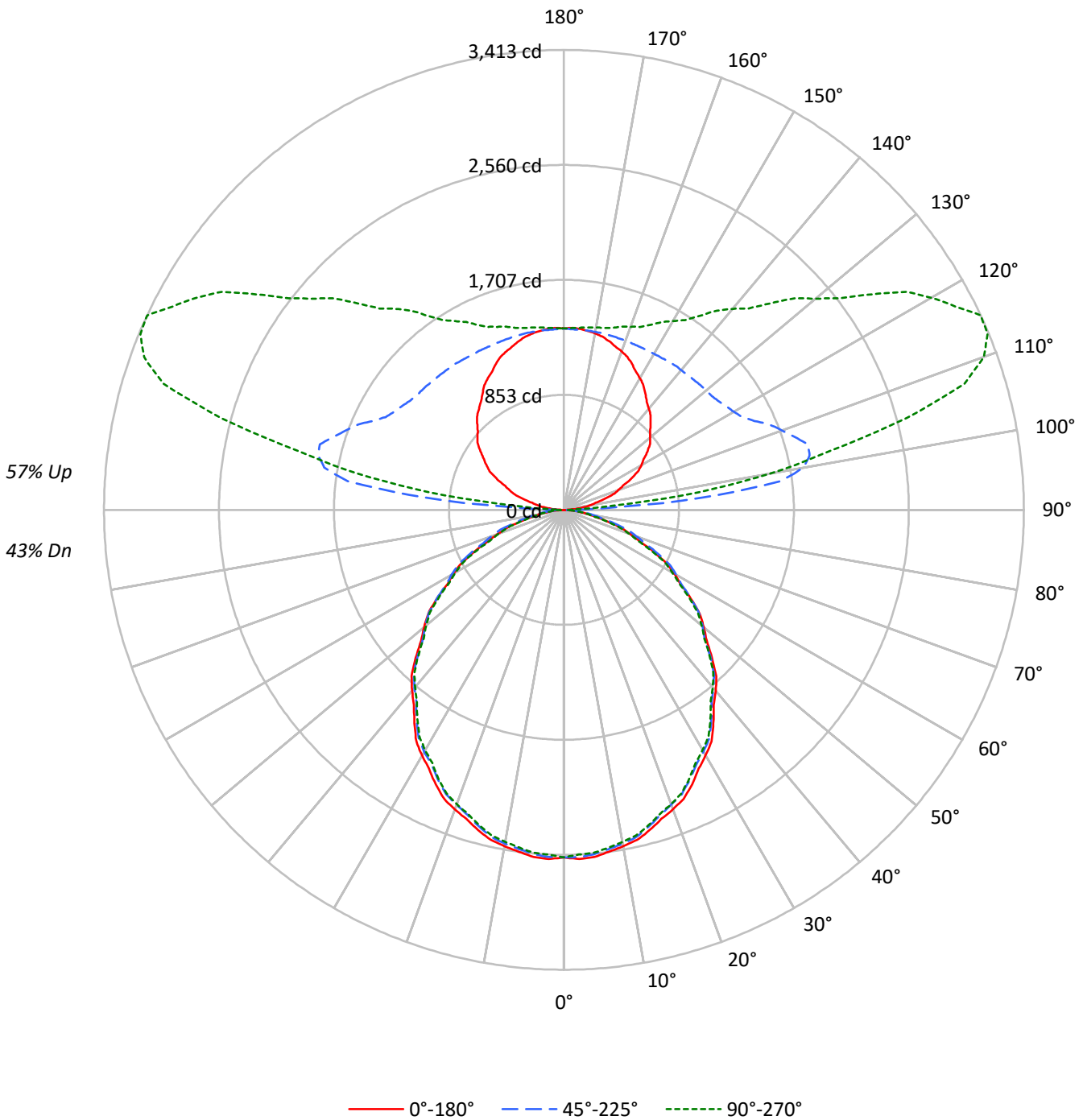
Lumens per Lamp: N/A  
Luminaire Lumens: 15252.4 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.3  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11433	11411
25°	11450	11242	11207
30°	11208	11038	10966
35°	10889	10736	10672
40°	10550	10385	10345
45°	10139	10006	9961
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8867	8554
65°	7962	8358	7763
70°	7018	7692	6834
75°	5994	6885	5832
80°	4649	5794	4707
85°	3006	4451	3970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	1.6
10°-20°	685.6	4.5
20°-30°	1017.0	6.7
30°-40°	1190.0	7.8
40°-50°	1184.7	7.8
50°-60°	1023.0	6.7
60°-70°	736.4	4.8
70°-80°	386.2	2.5
80°-90°	98.9	0.6
90°-100°	629.6	4.1
100°-110°	1695.9	11.1
110°-120°	1779.8	11.7
120°-130°	1444.2	9.5
130°-140°	1132.7	7.4
140°-150°	869.6	5.7
150°-160°	625.2	4.1
160°-170°	382.0	2.5
170°-180°	128.8	0.8
0°-30°	1945.5	12.8
0°-40°	3135.5	20.6
0°-60°	5343.2	35.0
0°-90°	6564.7	43.0
90°-120°	4105.2	26.9
90°-150°	7551.7	49.5
90°-180°	8688.0	57.0
0°-180°	15252.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2586	2557	2565	2558	2554	245
15°	2461	2430	2434	2429	2424	694
25°	2250	2212	2209	2195	2202	1034
35°	1934	1907	1906	1888	1895	1209
45°	1554	1541	1534	1529	1527	1199
55°	1152	1150	1152	1136	1134	1028
65°	729	752	766	736	711	723
75°	336	367	386	360	327	360
85°	57	75	84	79	75	75
90°	3	10	21	22	22	9
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2593.5	2572.2	2578.9	2573.2	2560.8
5°	2585.8	2556.9	2565.3	2558.4	2554.0
7.5°	2559.4	2532.7	2539.0	2531.6	2529.0
10°	2535.8	2509.1	2515.3	2506.1	2501.7
12.5°	2508.5	2480.1	2486.2	2477.1	2474.4
15°	2460.8	2429.7	2433.5	2428.9	2424.4
17.5°	2405.4	2373.8	2374.5	2367.2	2366.3
20°	2365.4	2332.0	2329.0	2320.0	2324.5
22.5°	2321.7	2286.6	2283.6	2271.0	2277.2
25°	2249.5	2211.7	2208.6	2195.1	2201.8
27.5°	2165.9	2128.5	2128.6	2109.7	2116.8
30°	2104.1	2068.5	2072.2	2049.7	2058.6
32.5°	2038.6	2006.6	2008.6	1986.1	1995.0
35°	1933.6	1907.0	1906.4	1888.4	1895.0
37.5°	1826.4	1802.8	1799.1	1788.7	1790.5
40°	1751.9	1731.9	1724.6	1717.8	1717.8
42.5°	1673.7	1655.5	1648.3	1643.2	1641.4
45°	1554.2	1540.9	1533.7	1529.1	1526.9
47.5°	1436.0	1423.6	1417.4	1414.2	1411.9
50°	1354.2	1345.3	1342.9	1336.0	1333.8
52.5°	1272.4	1267.1	1264.7	1256.0	1253.8
55°	1152.0	1149.8	1152.0	1136.1	1133.8
57.5°	1026.6	1030.1	1037.5	1016.0	1010.7
60°	943.0	951.9	961.1	935.9	927.1
62.5°	857.5	871.7	884.8	855.9	843.4
65°	729.4	751.6	765.7	735.6	711.2
67.5°	605.8	633.3	650.3	617.9	590.3
70°	520.3	551.4	570.3	537.8	506.7
72.5°	445.8	480.5	495.8	465.1	434.0
75°	336.3	367.4	386.3	360.5	327.2
77.5°	238.6	267.9	283.6	261.1	233.6
80°	175.0	206.1	218.1	199.4	177.2
82.5°	124.1	149.8	158.1	146.9	131.8
85°	56.8	74.6	84.1	79.4	75.0
87.5°	15.2	29.0	38.7	39.0	40.8
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)