

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: P565064

Luminaire Tested: **SQ4-PW1-125U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565064  
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-930-1D-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

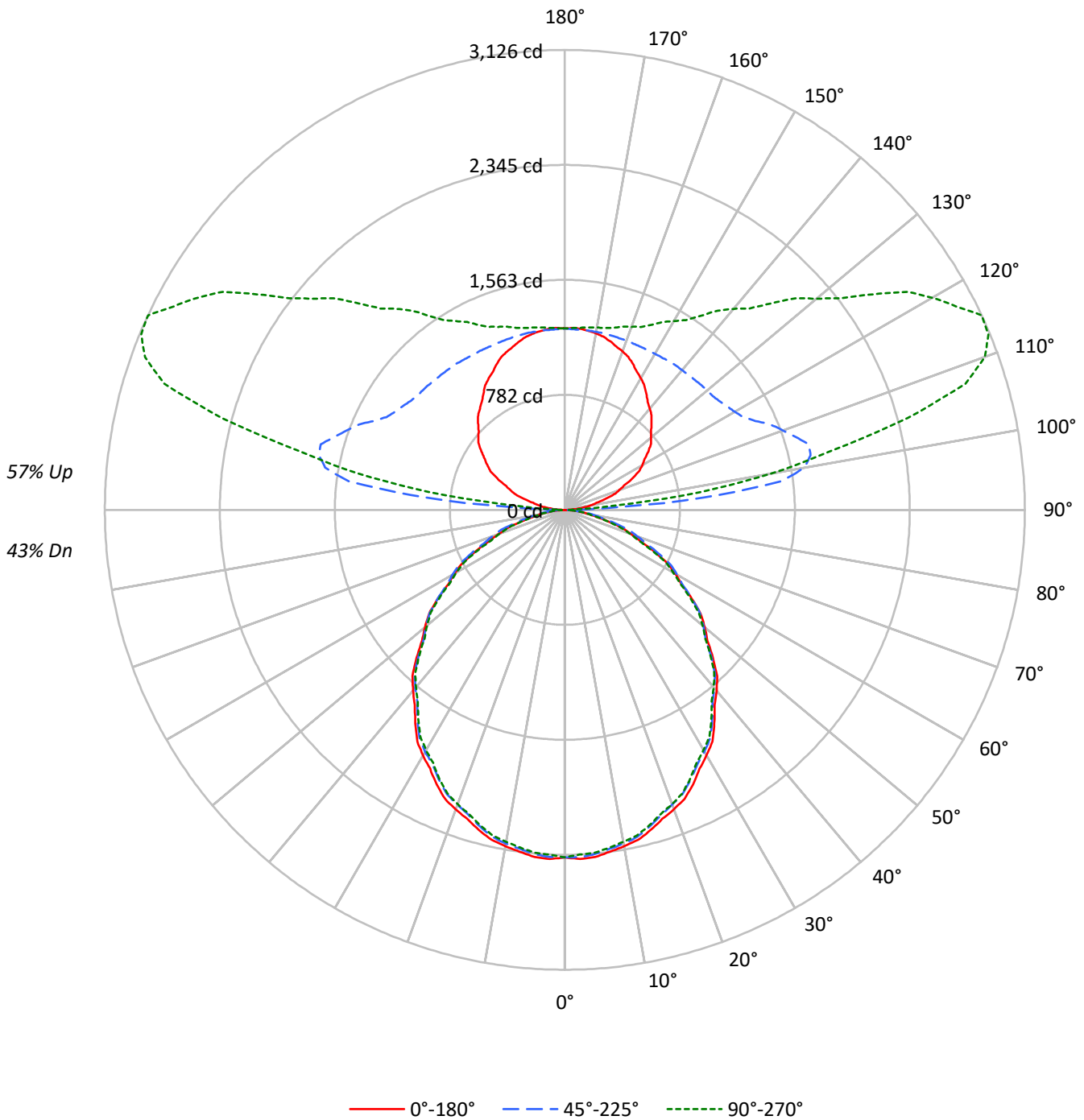
Lumens per Lamp: N/A  
Luminaire Lumens: 13968.6 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10296	10263
30°	10265	10109	10043
35°	9973	9832	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8766
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7655	7109
70°	6427	7045	6260
75°	5490	6306	5342
80°	4256	5308	4312
85°	2752	4076	3636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.4	1.6
10°-20°	627.9	4.5
20°-30°	931.4	6.7
30°-40°	1089.8	7.8
40°-50°	1085.0	7.8
50°-60°	936.9	6.7
60°-70°	674.4	4.8
70°-80°	353.7	2.5
80°-90°	90.6	0.6
90°-100°	576.6	4.1
100°-110°	1553.1	11.1
110°-120°	1629.9	11.7
120°-130°	1322.7	9.5
130°-140°	1037.3	7.4
140°-150°	796.4	5.7
150°-160°	572.6	4.1
160°-170°	349.8	2.5
170°-180°	118.0	0.8
0°-30°	1781.7	12.8
0°-40°	2871.6	20.6
0°-60°	4893.5	35.0
0°-90°	6012.1	43.0
90°-120°	3759.6	26.9
90°-150°	6916.0	49.5
90°-180°	7956.0	57.0
0°-180°	13968.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2368	2342	2349	2343	2339	224
15°	2254	2225	2229	2224	2220	635
25°	2060	2026	2023	2010	2016	947
35°	1771	1746	1746	1729	1736	1107
45°	1423	1411	1405	1400	1398	1098
55°	1055	1053	1055	1040	1038	941
65°	668	688	701	674	651	662
75°	308	336	354	330	300	330
85°	52	68	77	73	69	69
90°	3	9	19	20	20	8
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2361.9	2361.9	2361.9	2361.9	2361.9
2.5°	2375.2	2355.7	2361.9	2356.6	2345.2
5°	2368.1	2341.7	2349.4	2343.0	2339.0
7.5°	2344.0	2319.6	2325.2	2318.5	2316.1
10°	2322.3	2297.9	2303.6	2295.2	2291.1
12.5°	2297.4	2271.3	2277.0	2268.6	2266.1
15°	2253.7	2225.2	2228.7	2224.4	2220.4
17.5°	2202.9	2174.0	2174.6	2167.9	2167.1
20°	2166.3	2135.7	2133.0	2124.7	2128.8
22.5°	2126.3	2094.2	2091.3	2079.8	2085.5
25°	2060.1	2025.5	2022.7	2010.3	2016.4
27.5°	1983.6	1949.4	1949.4	1932.1	1938.6
30°	1927.0	1894.4	1897.8	1877.2	1885.3
32.5°	1867.0	1837.7	1839.6	1818.9	1827.1
35°	1770.9	1746.5	1745.9	1729.4	1735.5
37.5°	1672.7	1651.1	1647.7	1638.2	1639.8
40°	1604.4	1586.1	1579.4	1573.2	1573.2
42.5°	1532.8	1516.1	1509.5	1504.9	1503.3
45°	1423.4	1411.2	1404.6	1400.4	1398.4
47.5°	1315.2	1303.8	1298.1	1295.1	1293.1
50°	1240.2	1232.1	1229.8	1223.5	1221.5
52.5°	1165.3	1160.4	1158.3	1150.3	1148.3
55°	1055.0	1053.0	1055.0	1040.4	1038.4
57.5°	940.2	943.4	950.2	930.5	925.6
60°	863.6	871.7	880.2	857.2	849.0
62.5°	785.3	798.4	810.3	783.8	772.4
65°	668.0	688.3	701.3	673.7	651.3
67.5°	554.8	580.0	595.6	565.9	540.6
70°	476.5	505.0	522.3	492.5	464.1
72.5°	408.3	440.0	454.1	425.9	397.5
75°	308.0	336.5	353.8	330.2	299.7
77.5°	218.5	245.4	259.7	239.2	213.9
80°	160.2	188.7	199.8	182.7	162.3
82.5°	113.6	137.2	144.8	134.5	120.7
85°	52.0	68.3	77.0	72.7	68.7
87.5°	13.9	26.6	35.4	35.7	37.4
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)