

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: P520353

Luminaire Tested: **SQ4-F-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520353  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

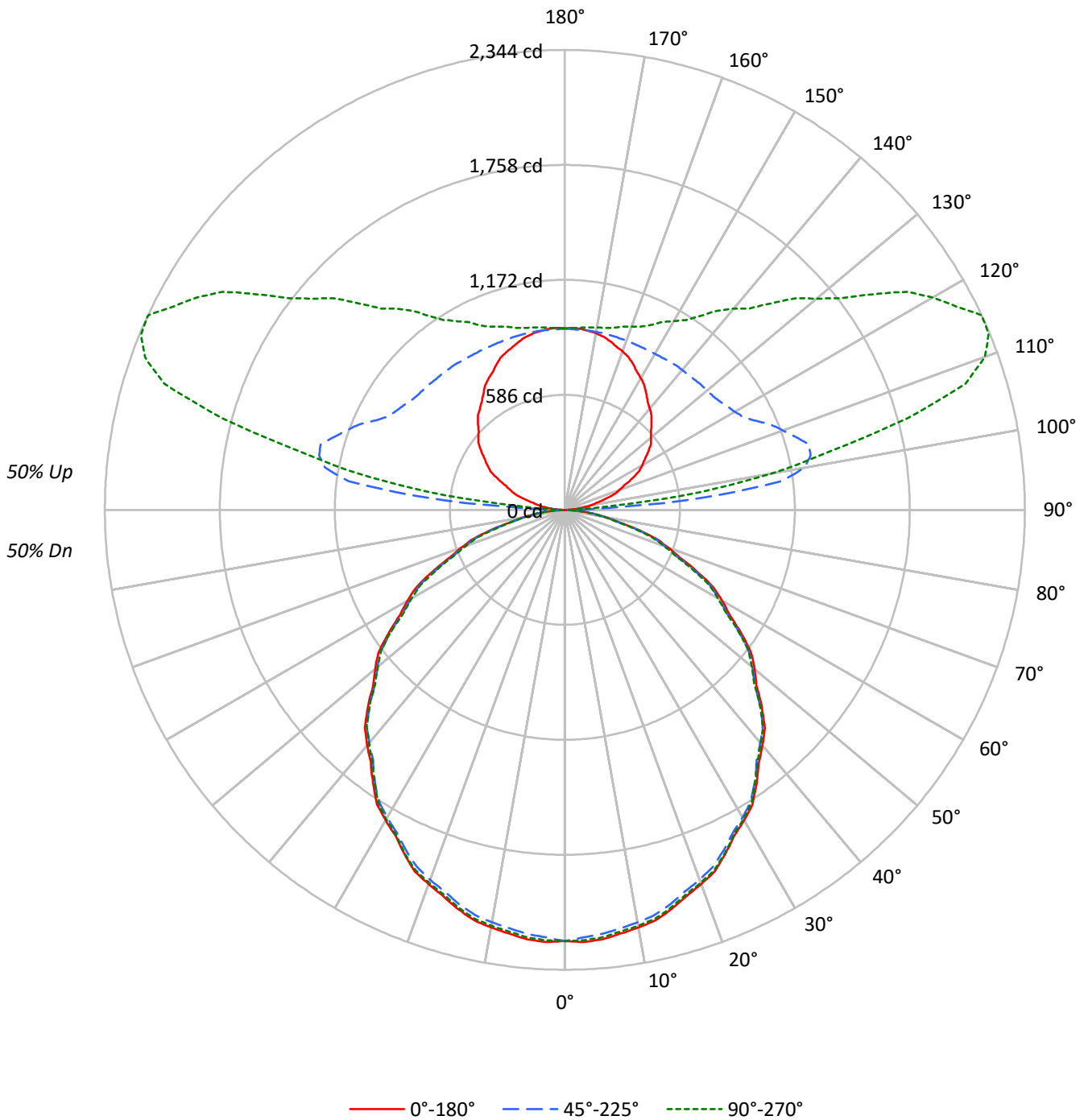
Lumens per Lamp: N/A  
Luminaire Lumens: 11966.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 114.6  
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	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12996	13104
30°	12975	12863	12931
35°	12790	12681	12690
40°	12580	12443	12482
45°	12343	12207	12228
50°	12074	11934	11901
55°	11766	11598	11572
60°	11384	11132	11073
65°	10793	10565	10424
70°	10053	9790	9661
75°	8940	8741	8482
80°	7283	7070	7028
85°	4354	4947	4947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.4	1.7
10°-20°	590.7	4.9
20°-30°	887.4	7.4
30°-40°	1058.9	8.8
40°-50°	1085.4	9.1
50°-60°	967.4	8.1
60°-70°	720.2	6.0
70°-80°	390.2	3.3
80°-90°	91.8	0.8
90°-100°	432.4	3.6
100°-110°	1164.8	9.7
110°-120°	1222.5	10.2
120°-130°	992.0	8.3
130°-140°	778.0	6.5
140°-150°	597.3	5.0
150°-160°	429.5	3.6
160°-170°	262.4	2.2
170°-180°	88.5	0.7
0°-30°	1685.5	14.1
0°-40°	2744.4	22.9
0°-60°	4797.2	40.1
0°-90°	5999.3	50.1
90°-120°	2819.7	23.6
90°-150°	5187.0	43.3
90°-180°	5967.0	49.9
0°-180°	11966.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2197	2193	2169	2188	2187	208
15°	2106	2101	2081	2099	2098	594
25°	1936	1932	1915	1926	1931	891
35°	1703	1702	1689	1689	1690	1065
45°	1419	1416	1403	1401	1406	1093
55°	1097	1094	1082	1073	1079	980
65°	742	737	726	721	716	734
75°	376	376	368	360	357	400
85°	62	70	70	71	70	85
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	932	88
180°	924	924	924	924	924	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2204.9	2201.2	2181.7	2198.1	2195.3
5°	2196.9	2193.4	2169.1	2188.5	2187.3
7.5°	2178.4	2173.8	2151.7	2169.7	2167.6
10°	2161.8	2158.3	2135.3	2153.3	2152.2
12.5°	2141.6	2138.0	2114.9	2133.0	2132.8
15°	2106.2	2101.4	2080.8	2098.9	2097.8
17.5°	2063.8	2058.5	2038.0	2052.3	2054.7
20°	2030.0	2026.4	2007.0	2020.3	2022.8
22.5°	1995.1	1990.7	1970.2	1985.5	1987.9
25°	1935.6	1932.1	1915.0	1926.1	1930.8
27.5°	1870.3	1870.3	1854.5	1862.3	1865.2
30°	1826.8	1826.8	1811.1	1815.9	1820.7
32.5°	1780.2	1776.5	1761.7	1765.6	1770.4
35°	1703.3	1702.2	1688.8	1688.8	1690.0
37.5°	1623.8	1620.4	1605.8	1606.9	1612.6
40°	1566.7	1564.3	1549.7	1549.8	1554.5
42.5°	1508.6	1506.2	1493.6	1491.7	1493.6
45°	1419.0	1415.5	1403.3	1401.0	1405.7
47.5°	1323.8	1324.7	1310.2	1306.8	1309.5
50°	1261.8	1261.8	1247.2	1240.1	1243.7
52.5°	1197.0	1195.0	1180.4	1172.4	1180.7
55°	1097.2	1093.7	1081.5	1073.2	1079.1
57.5°	995.2	989.7	977.5	968.4	971.7
60°	925.4	917.2	904.9	897.7	900.1
62.5°	852.9	848.4	835.2	824.2	829.5
65°	741.6	736.8	725.9	720.9	716.2
67.5°	632.4	629.4	617.0	611.9	608.7
70°	559.0	553.0	544.4	538.3	537.2
72.5°	487.3	480.4	471.8	466.6	463.6
75°	376.2	376.2	367.8	360.4	356.9
77.5°	270.5	271.4	264.4	262.0	260.4
80°	205.6	205.6	199.6	197.2	198.4
82.5°	143.7	146.6	144.4	141.0	139.4
85°	61.7	69.9	70.1	71.4	70.1
87.5°	11.1	18.8	21.3	19.6	17.6
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.3	1111.8	928.8	700.4
100°	135.4	282.8	1239.9	1297.3	1076.3
102.5°	164.6	301.8	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.3	1927.3	1808.7
107.5°	263.6	370.4	1233.4	2109.2	2139.8
110°	295.5	396.9	1183.5	2165.6	2277.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.4	465.5	1072.8	2072.8	2344.4
117.5°	426.8	506.7	1024.2	1944.4	2247.0
120°	456.8	534.0	999.7	1852.3	2163.2
122.5°	483.3	559.5	981.9	1758.0	2068.0
125°	519.3	596.5	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.4
130°	574.7	650.6	946.8	1447.6	1673.3
132.5°	595.4	670.5	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.3
137.5°	653.8	723.4	933.0	1248.6	1391.4
140°	673.5	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.4	928.4	1171.5	1280.3
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.2	920.4	1082.0	1147.2
150°	774.9	817.4	918.4	1056.3	1110.5
152.5°	793.6	830.7	917.5	1035.4	1079.4
155°	820.8	850.6	916.2	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.4	976.6	992.6
162.5°	872.8	888.6	918.2	967.0	978.5
165°	890.2	900.6	919.6	956.2	960.9
167.5°	904.3	910.3	920.8	947.9	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.5
177.5°	928.1	926.3	921.6	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)