

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: P520042

Luminaire Tested: **SQ4-F-075U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520042  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-075U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

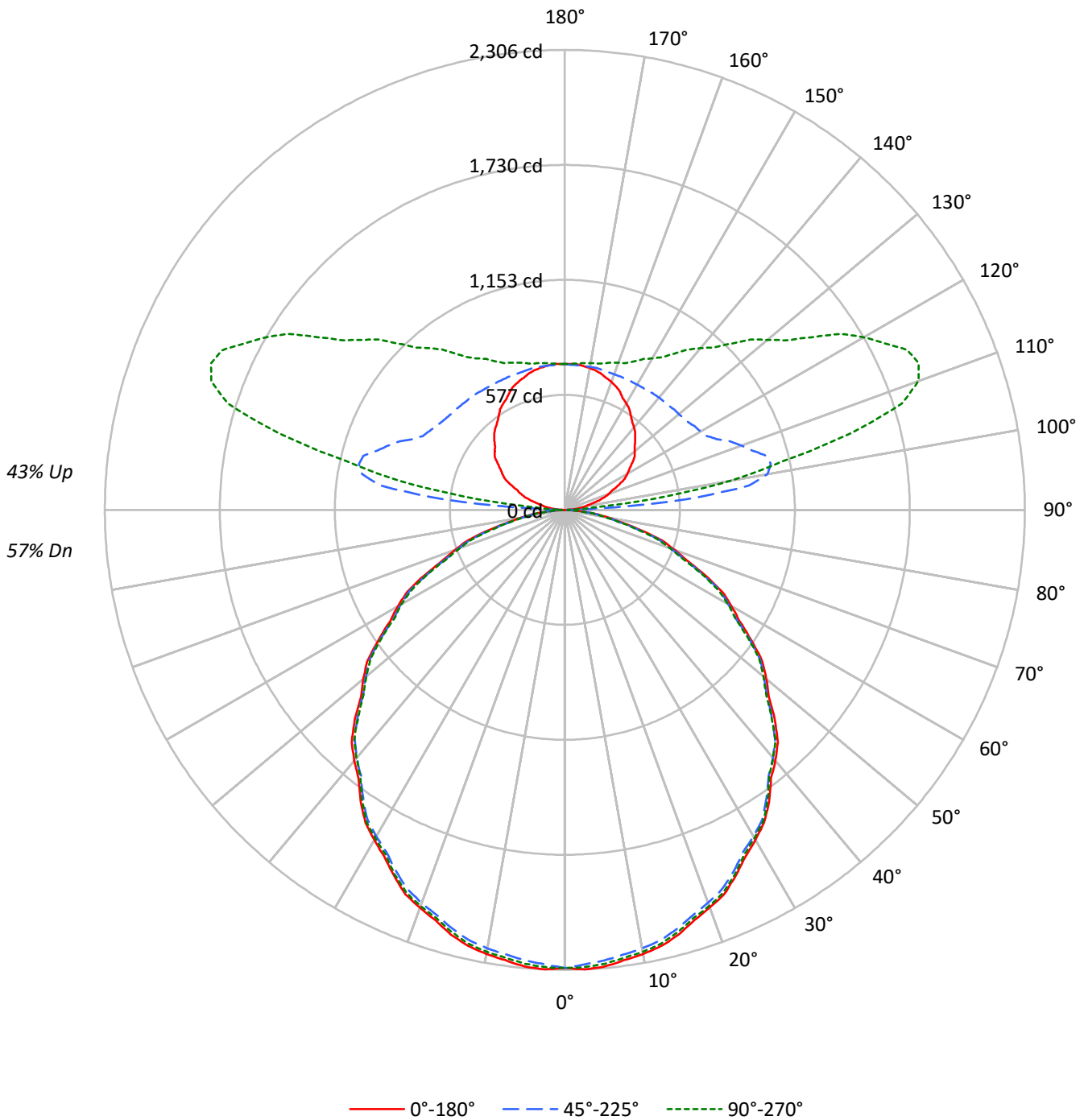
Lumens per Lamp: N/A  
Luminaire Lumens: 11032.9 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.3  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	99	95	91	87	92	88	85	82	76	74	72	65	64	62	55	54	53	48
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44	40
3	82	73	65	59	76	68	61	56	59	54	50	51	47	43	43	40	38	34
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	20	17
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18	15
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	10599	10599	10599
5°	10646	10501	10581
10°	10593	10459	10541
15°	10528	10386	10468
20°	10420	10296	10381
25°	10306	10186	10265
30°	10180	10071	10122
35°	10053	9928	9982
40°	9886	9772	9781
45°	9711	9578	9546
50°	9461	9348	9325
55°	9182	9080	9017
60°	8904	8744	8715
65°	8468	8279	8211
70°	7870	7677	7529
75°	7026	6802	6661
80°	5781	5574	5318
85°	3425	3753	3837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	2.0
10°-20°	617.5	5.6
20°-30°	927.3	8.4
30°-40°	1106.7	10.0
40°-50°	1134.4	10.3
50°-60°	1010.2	9.2
60°-70°	753.0	6.8
70°-80°	407.7	3.7
80°-90°	94.7	0.9
90°-100°	345.0	3.1
100°-110°	949.0	8.6
110°-120°	979.6	8.9
120°-130°	784.9	7.1
130°-140°	616.4	5.6
140°-150°	472.4	4.3
150°-160°	339.7	3.1
160°-170°	207.7	1.9
170°-180°	70.0	0.6
0°-30°	1761.7	16.0
0°-40°	2868.4	26.0
0°-60°	5012.9	45.4
0°-90°	6268.3	56.8
90°-120°	2273.6	20.6
90°-150°	4147.3	37.6
90°-180°	4765.0	43.2
0°-180°	11032.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2299	2294	2268	2288	2285	218
15°	2204	2197	2175	2192	2192	621
25°	2025	2020	2001	2012	2017	933
35°	1785	1777	1763	1766	1772	1114
45°	1489	1481	1468	1460	1463	1145
55°	1142	1143	1129	1118	1121	1022
65°	776	773	758	751	752	767
75°	394	390	382	374	374	420
85°	65	71	71	72	72	90
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	955	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2297.5	2297.5	2297.5	2297.5	2297.5
2.5°	2306.3	2301.5	2281.2	2297.5	2295.0
5°	2299.1	2294.5	2267.6	2288.0	2284.9
7.5°	2277.7	2273.0	2249.3	2268.2	2265.4
10°	2261.3	2256.7	2232.9	2251.7	2250.3
12.5°	2239.9	2235.2	2211.4	2230.3	2228.8
15°	2204.5	2196.9	2174.6	2191.9	2191.9
17.5°	2157.8	2152.0	2131.4	2145.8	2146.1
20°	2122.5	2117.9	2097.3	2113.1	2114.6
22.5°	2087.2	2082.6	2059.4	2074.0	2076.8
25°	2024.7	2020.1	2001.1	2012.3	2016.8
27.5°	1960.4	1953.6	1934.9	1944.7	1948.2
30°	1911.2	1908.1	1890.7	1895.5	1900.2
32.5°	1859.5	1856.4	1841.5	1843.9	1852.2
35°	1785.1	1777.3	1763.0	1766.2	1772.5
37.5°	1697.1	1693.3	1679.4	1677.7	1683.5
40°	1641.6	1635.4	1622.7	1619.6	1624.3
42.5°	1581.0	1574.8	1559.6	1556.6	1562.4
45°	1488.6	1480.9	1468.1	1460.3	1463.3
47.5°	1385.2	1385.2	1371.9	1362.9	1367.5
50°	1318.3	1318.3	1302.5	1294.7	1299.4
52.5°	1248.9	1250.1	1233.2	1229.0	1227.4
55°	1141.7	1143.2	1129.0	1118.1	1121.2
57.5°	1038.3	1034.8	1018.4	1011.1	1012.7
60°	965.1	960.4	947.7	936.8	944.6
62.5°	890.7	888.5	875.8	863.5	862.6
65°	775.8	772.7	758.5	750.6	752.2
67.5°	661.7	658.0	644.9	633.7	637.7
70°	583.5	583.5	569.2	562.9	558.2
72.5°	511.6	505.4	494.8	485.9	482.5
75°	394.2	389.6	381.6	373.7	373.7
77.5°	287.0	283.0	277.8	272.5	270.9
80°	217.6	216.1	209.8	208.0	200.2
82.5°	153.3	153.0	149.2	145.1	144.8
85°	64.7	70.8	70.9	72.5	72.5
87.5°	11.7	20.0	19.9	17.9	17.9
90°	1.6	6.2	10.9	14.0	14.0
92.5°	21.5	91.7	159.0	61.0	50.1
95°	51.4	188.3	610.0	260.9	166.5
97.5°	83.7	208.8	930.9	717.3	506.1
100°	107.4	221.4	1031.7	1041.4	849.7
102.5°	129.8	236.6	1057.8	1291.9	1116.0
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.2	1739.9	1771.5
110°	234.9	311.0	941.4	1776.5	1886.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.7
115°	300.4	365.7	838.7	1670.1	1895.4
117.5°	338.9	399.2	802.1	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.5	774.7	1391.0	1640.8
125°	413.9	471.7	761.0	1287.3	1507.9
127.5°	442.6	497.7	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	475.0	531.2	743.2	1104.1	1263.5
135°	499.5	554.3	739.2	1041.0	1177.9
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.2	734.5	956.2	1058.1
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.4
147.5°	601.2	635.4	726.4	852.4	907.2
150°	616.2	646.6	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.8
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.3	724.9	764.6	774.3
165°	706.5	715.6	726.7	756.4	761.0
167.5°	715.8	722.8	728.3	749.4	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.3	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.3	731.3	731.3	731.3	731.3

(END OF REPORT)