

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: P519874

Luminaire Tested: **SQ4-F-025U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519874  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

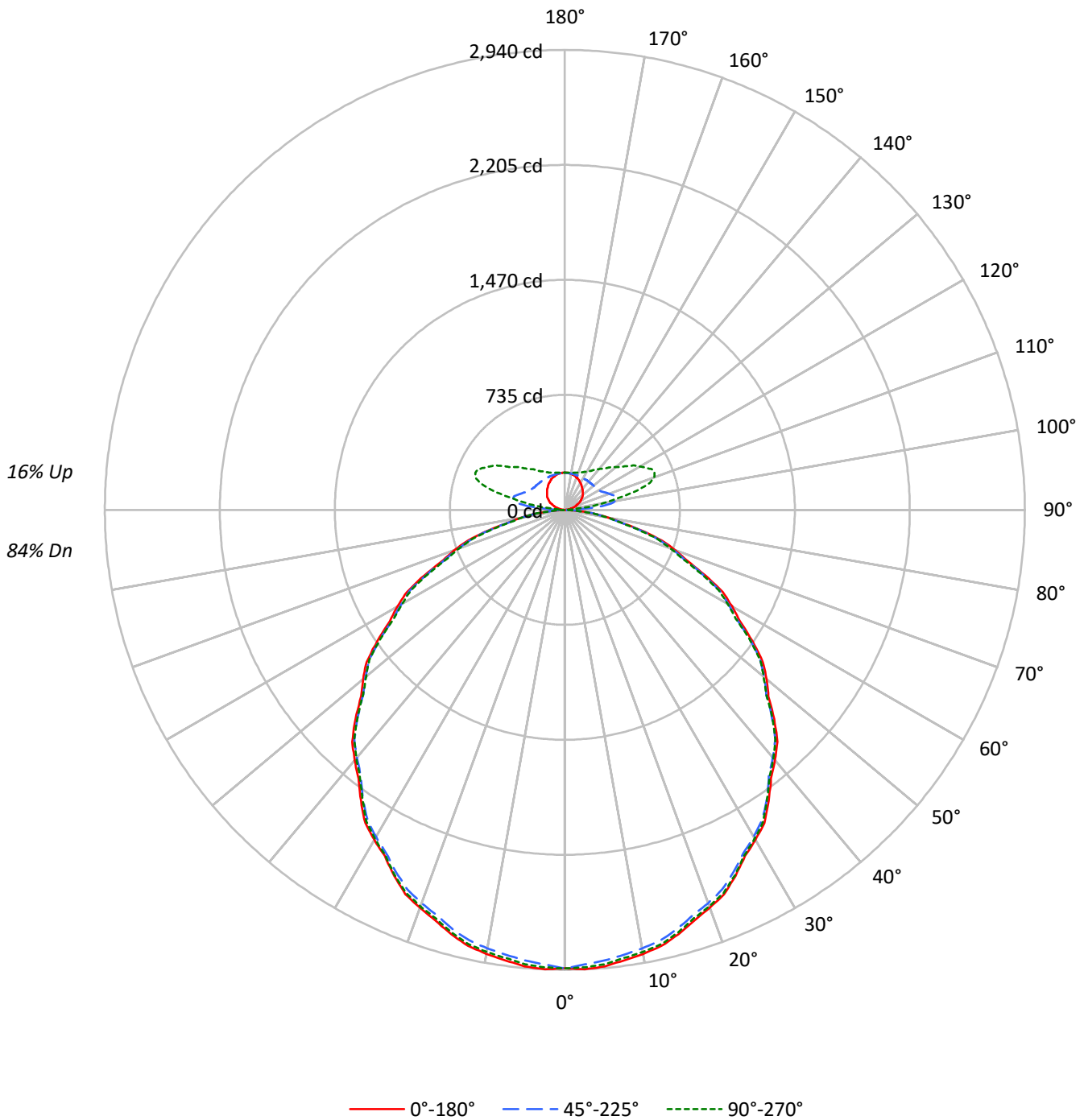
Lumens per Lamp: N/A  
Luminaire Lumens: 9534.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 98.1  
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	50	30	10	0	
RCR																						
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50				
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43				
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37				
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32				
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28				
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25				
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23				
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21				

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

	0°	45°	90°
0°	13521	13521	13521
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13288	13137	13240
25°	13136	12997	13103
30°	12974	12863	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12343	12208	12228
50°	12073	11935	11900
55°	11766	11598	11572
60°	11385	11131	11072
65°	10793	10564	10423
70°	10051	9791	9660
75°	8942	8739	8480
80°	7287	7069	7027
85°	4356	4949	4949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.5	2.9
10°-20°	787.6	8.3
20°-30°	1183.3	12.4
30°-40°	1411.9	14.8
40°-50°	1447.2	15.2
50°-60°	1289.9	13.5
60°-70°	960.3	10.1
70°-80°	520.2	5.5
80°-90°	120.7	1.3
90°-100°	115.6	1.2
100°-110°	303.9	3.2
110°-120°	315.1	3.3
120°-130°	252.8	2.7
130°-140°	198.3	2.1
140°-150°	152.2	1.6
150°-160°	109.6	1.1
160°-170°	67.1	0.7
170°-180°	22.7	0.2
0°-30°	2247.4	23.6
0°-40°	3659.3	38.4
0°-60°	6396.4	67.1
0°-90°	7997.6	83.9
90°-120°	734.6	7.7
90°-150°	1337.9	14.0
90°-180°	1537.0	16.1
0°-180°	9534.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2931	2931	2931	2931	2931	
5°	2929	2924	2892	2918	2916	278
15°	2808	2802	2774	2798	2797	792
25°	2581	2576	2554	2568	2574	1189
35°	2271	2270	2252	2252	2253	1420
45°	1892	1887	1871	1868	1874	1458
55°	1463	1458	1442	1431	1439	1307
65°	989	982	968	961	955	979
75°	502	502	490	481	476	533
85°	82	93	94	95	94	114
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	378	125
145°	187	199	234	285	307	117
155°	211	217	234	257	265	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	



TEST NUMBER: P519874

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2930.9	2930.9	2930.9	2930.9	2930.9
2.5°	2939.9	2934.8	2908.9	2930.8	2927.0
5°	2929.3	2924.5	2892.2	2917.9	2916.3
7.5°	2904.4	2898.5	2869.0	2893.1	2890.2
10°	2882.4	2877.8	2847.0	2871.2	2869.6
12.5°	2855.4	2850.6	2819.9	2844.0	2843.7
15°	2808.3	2802.0	2774.4	2798.5	2797.0
17.5°	2751.8	2744.6	2717.3	2736.4	2739.5
20°	2706.7	2701.9	2676.0	2693.8	2697.0
22.5°	2660.2	2654.2	2626.9	2647.4	2650.6
25°	2580.8	2576.1	2553.5	2568.1	2574.3
27.5°	2493.8	2493.8	2472.8	2483.2	2487.0
30°	2435.7	2435.7	2414.7	2421.3	2427.6
32.5°	2373.8	2368.7	2348.9	2354.2	2360.5
35°	2271.1	2269.6	2251.7	2251.8	2253.4
37.5°	2165.0	2160.6	2141.2	2142.6	2150.2
40°	2088.9	2085.7	2066.3	2066.5	2072.7
42.5°	2011.4	2008.3	1991.5	1988.9	1991.5
45°	1892.0	1887.4	1871.2	1868.0	1874.3
47.5°	1764.9	1766.3	1746.9	1742.4	1745.9
50°	1682.3	1682.3	1663.0	1653.5	1658.2
52.5°	1595.9	1593.4	1574.0	1563.2	1574.3
55°	1463.0	1458.2	1442.0	1430.9	1438.8
57.5°	1326.9	1319.6	1303.3	1291.1	1295.6
60°	1234.0	1222.9	1206.5	1197.0	1200.1
62.5°	1137.2	1131.2	1113.7	1099.0	1105.8
65°	988.8	982.5	967.8	961.2	954.9
67.5°	843.2	839.2	822.7	815.8	811.6
70°	745.2	737.3	725.9	717.8	716.2
72.5°	649.8	640.5	629.1	622.2	618.1
75°	501.7	501.7	490.3	480.6	475.8
77.5°	360.7	361.9	352.6	349.4	347.1
80°	274.3	274.3	266.1	263.0	264.5
82.5°	191.7	195.4	192.6	188.0	185.8
85°	82.3	93.3	93.5	95.2	93.5
87.5°	14.5	24.0	27.1	23.2	20.7
90°	1.5	4.5	12.1	6.1	6.1
92.5°	6.4	30.8	68.2	30.2	19.5
95°	15.2	59.8	199.2	102.7	70.0
97.5°	26.5	65.7	297.9	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.2	75.6	336.9	414.6	350.9
105°	54.8	83.0	336.0	510.0	475.8
107.5°	67.5	93.7	316.9	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

TEST NUMBER: P519874

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.2	286.5	564.3	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.7	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.3	473.2	555.0
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.1
127.5°	144.1	160.8	241.5	386.4	449.2
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.1	334.0	378.5
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.6	306.4	340.6
142.5°	179.7	193.4	235.6	297.8	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.0	292.5
150°	199.2	209.5	234.1	267.9	282.7
152.5°	204.1	212.1	234.1	263.0	274.2
155°	211.3	217.3	234.1	257.1	264.6
157.5°	216.8	222.4	234.1	251.9	257.2
160°	220.4	224.9	234.1	249.4	252.3
162.5°	224.1	227.4	234.1	247.0	250.0
165°	228.1	231.0	234.1	243.4	246.3
167.5°	231.7	233.2	235.6	241.7	243.0
170°	234.1	235.6	235.6	241.7	241.7
172.5°	235.3	235.6	235.6	240.5	239.3
175°	237.1	237.1	235.6	238.7	238.7
177.5°	237.1	237.1	236.0	238.4	237.1
180°	237.1	237.1	237.1	237.1	237.1

(END OF REPORT)