

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: P519866

Luminaire Tested: **SQ4-F-025U-125D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519866  
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-835-1D-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**

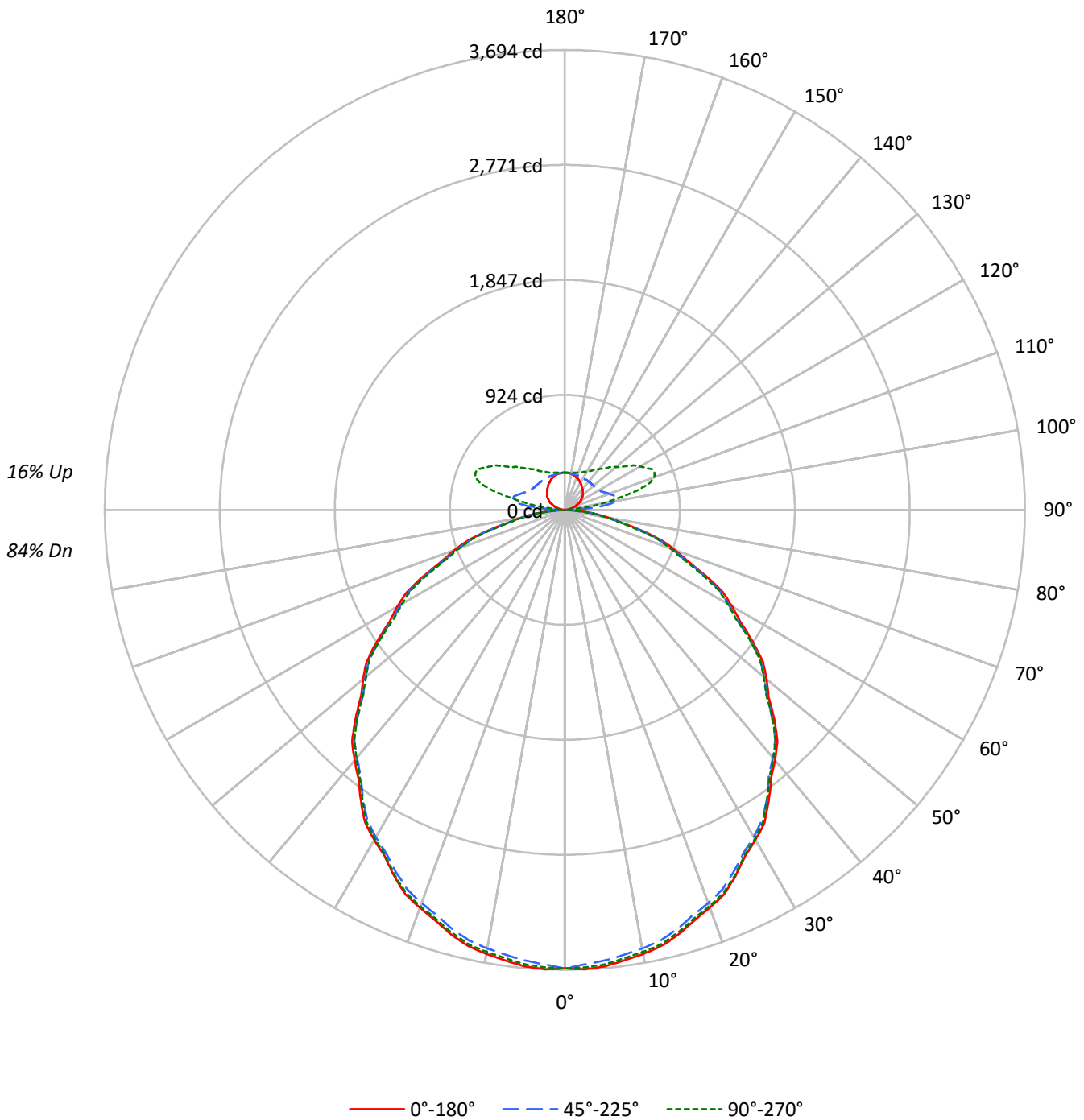
Lumens per Lamp: N/A  
Luminaire Lumens: 11982.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	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°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16892
15°	16854	16651	16787
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16073	15936	15947
40°	15808	15637	15685
45°	15512	15340	15366
50°	15173	14999	14955
55°	14786	14575	14542
60°	14307	13989	13914
65°	13564	13275	13099
70°	12631	12304	12139
75°	11236	10983	10659
80°	9155	8886	8830
85°	5473	6224	6224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.5	2.9
10°-20°	989.7	8.3
20°-30°	1487.0	12.4
30°-40°	1774.2	14.8
40°-50°	1818.6	15.2
50°-60°	1621.0	13.5
60°-70°	1206.7	10.1
70°-80°	653.8	5.5
80°-90°	151.7	1.3
90°-100°	145.2	1.2
100°-110°	381.9	3.2
110°-120°	396.0	3.3
120°-130°	317.6	2.7
130°-140°	249.2	2.1
140°-150°	191.3	1.6
150°-160°	137.8	1.1
160°-170°	84.3	0.7
170°-180°	28.5	0.2
0°-30°	2824.2	23.6
0°-40°	4598.5	38.4
0°-60°	8038.1	67.1
0°-90°	10050.3	83.9
90°-120°	923.1	7.7
90°-150°	1681.2	14.0
90°-180°	1932.0	16.1
0°-180°	11982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3683	3683	3683	3683	3683	
5°	3681	3675	3634	3667	3665	349
15°	3529	3521	3486	3517	3515	995
25°	3243	3237	3209	3227	3235	1494
35°	2854	2852	2830	2830	2832	1785
45°	2378	2372	2351	2348	2355	1832
55°	1838	1832	1812	1798	1808	1642
65°	1243	1235	1216	1208	1200	1230
75°	630	630	616	604	598	669
85°	103	117	118	120	118	143
90°	2	6	15	8	8	4
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3683.1	3683.1	3683.1	3683.1	3683.1
2.5°	3694.5	3688.1	3655.6	3683.0	3678.3
5°	3681.1	3675.1	3634.5	3666.9	3664.9
7.5°	3649.9	3642.4	3605.3	3635.6	3632.0
10°	3622.3	3616.3	3577.7	3608.1	3606.1
12.5°	3588.3	3582.3	3543.7	3574.1	3573.7
15°	3529.1	3521.2	3486.5	3516.9	3514.9
17.5°	3458.1	3449.0	3414.7	3438.8	3442.7
20°	3401.4	3395.4	3362.9	3385.3	3389.2
22.5°	3343.0	3335.5	3301.2	3326.9	3330.8
25°	3243.3	3237.3	3208.8	3227.2	3235.1
27.5°	3133.8	3133.8	3107.4	3120.5	3125.3
30°	3060.8	3060.8	3034.5	3042.8	3050.7
32.5°	2983.0	2976.6	2951.8	2958.5	2966.4
35°	2854.1	2852.0	2829.7	2829.7	2831.8
37.5°	2720.7	2715.1	2690.7	2692.5	2702.0
40°	2625.0	2621.1	2596.6	2596.8	2604.7
42.5°	2527.7	2523.8	2502.6	2499.4	2502.6
45°	2377.7	2371.7	2351.4	2347.5	2355.4
47.5°	2218.0	2219.6	2195.3	2189.7	2194.1
50°	2114.2	2114.2	2089.9	2077.8	2083.8
52.5°	2005.5	2002.4	1978.0	1964.5	1978.4
55°	1838.5	1832.5	1812.2	1798.2	1808.1
57.5°	1667.4	1658.3	1637.8	1622.5	1628.1
60°	1550.7	1536.8	1516.2	1504.2	1508.1
62.5°	1429.1	1421.6	1399.5	1381.0	1389.7
65°	1242.6	1234.7	1216.2	1207.9	1200.0
67.5°	1059.7	1054.6	1033.8	1025.2	1020.0
70°	936.5	926.6	912.2	902.0	900.0
72.5°	816.5	805.0	790.5	781.9	776.8
75°	630.4	630.4	616.2	604.0	598.0
77.5°	453.2	454.9	443.1	439.0	436.2
80°	344.6	344.6	334.5	330.4	332.4
82.5°	240.8	245.6	242.0	236.3	233.5
85°	103.4	117.3	117.6	119.6	117.6
87.5°	18.2	30.1	34.1	29.1	25.9
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.6	85.5	37.9	24.5
95°	19.1	75.1	250.2	128.9	87.8
97.5°	33.3	82.6	374.5	297.8	219.4
100°	44.0	88.8	412.6	418.2	324.8
102.5°	53.1	94.9	423.4	520.9	440.9
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.6	769.9
117.5°	137.9	161.8	323.3	626.8	732.5
120°	147.1	169.6	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.1	303.4	485.6	564.3
130°	187.3	209.6	301.9	464.0	536.9
132.5°	193.4	215.7	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.3	297.7	400.3	446.3
140°	219.8	238.4	296.1	385.0	427.9
142.5°	225.9	243.0	296.1	374.1	411.1
145°	235.0	250.0	294.2	357.9	386.0
147.5°	244.1	258.8	294.2	344.4	367.6
150°	250.2	263.3	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.4	344.7
155°	265.5	273.1	294.2	323.1	332.4
157.5°	272.4	279.6	294.2	316.6	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.1	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.7	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	299.9	299.9
177.5°	298.0	298.0	296.5	299.6	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)