

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521803

Luminaire Tested: **SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521803  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

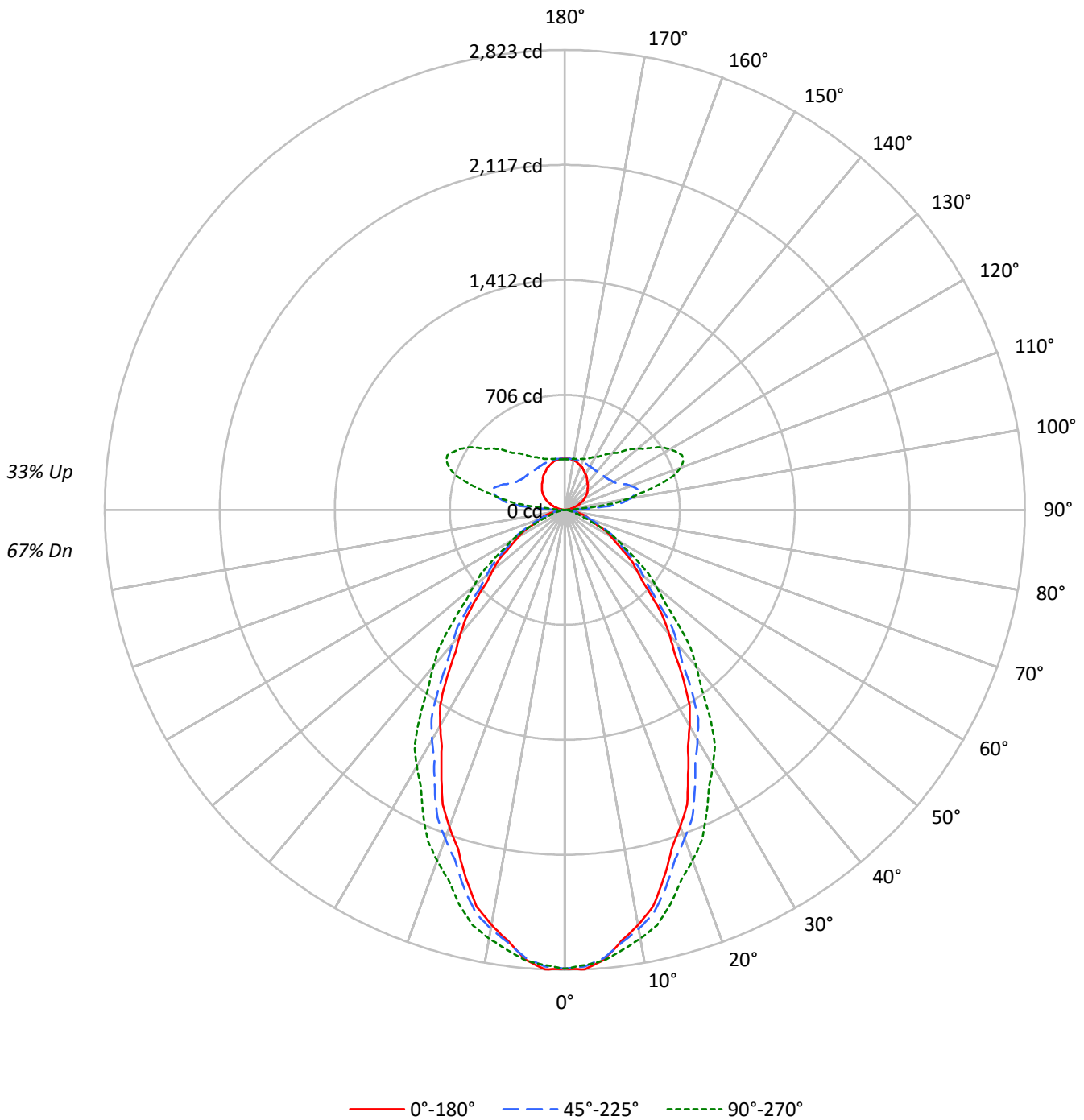
Lumens per Lamp: N/A  
Luminaire Lumens: 6126.8 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 71.5  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	103	99	96	93	97	94	91	88	84	81	79	74	73	71	66	65	64	59				
2	95	89	83	78	90	84	79	75	75	72	68	67	64	62	60	58	56	52				
3	88	79	73	67	83	75	69	65	68	63	59	61	57	54	55	52	50	46				
4	81	71	64	59	77	68	62	57	62	56	52	56	51	48	50	47	44	41				
5	75	65	57	52	71	62	55	50	56	51	46	51	46	43	46	42	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	33				
7	65	54	46	41	62	52	45	40	47	42	37	43	38	35	39	35	33	30				
8	61	50	42	37	58	47	41	36	44	38	34	40	35	32	36	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	27	26				
10	54	42	35	31	51	41	34	30	38	32	28	35	30	27	32	28	25	24				

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

	0°	45°	90°
0°	25986	25986	25986
5°	25662	25570	25718
10°	24244	24464	25032
15°	22381	22900	23927
20°	20324	21089	22484
25°	18229	19224	20947
30°	16300	17366	19354
35°	14253	15284	17469
40°	11997	12950	15122
45°	9901	10755	12626
50°	8266	9011	10520
55°	7018	7732	8688
60°	5997	6704	6933
65°	4774	5639	4478
70°	4235	4400	2733
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	4.2
10°-20°	671.9	11.0
20°-30°	870.4	14.2
30°-40°	852.3	13.9
40°-50°	652.4	10.6
50°-60°	434.7	7.1
60°-70°	237.2	3.9
70°-80°	98.9	1.6
80°-90°	28.0	0.5
90°-100°	161.0	2.6
100°-110°	389.2	6.4
110°-120°	415.1	6.8
120°-130°	336.2	5.5
130°-140°	260.3	4.2
140°-150°	198.6	3.2
150°-160°	143.7	2.3
160°-170°	88.5	1.4
170°-180°	30.0	0.5
0°-30°	1800.7	29.4
0°-40°	2653.0	43.3
0°-60°	3740.1	61.0
0°-90°	4104.1	67.0
90°-120°	965.3	15.8
90°-150°	1760.4	28.7
90°-180°	2023.0	33.0
0°-180°	6126.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2771	2743	2761	2767	2777	258
15°	2343	2335	2398	2463	2505	654
25°	1791	1796	1888	1971	2058	824
35°	1266	1272	1357	1448	1551	787
45°	759	773	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	0	0	0	0	0	2
95°	16	81	276	179	126	18
105°	62	108	468	605	598	66
115°	114	146	376	712	795	113
125°	162	187	326	567	666	145
135°	199	222	313	447	514	154
145°	236	253	307	380	410	147
155°	270	282	311	336	349	125
165°	298	303	315	320	324	84
175°	316	314	316	313	312	30
180°	312	312	312	312	312	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2823.4	2798.3	2804.6	2804.4	2796.7
5°	2770.8	2743.0	2760.9	2767.3	2776.9
7.5°	2667.9	2646.9	2679.5	2703.7	2723.3
10°	2587.8	2569.7	2611.3	2646.5	2671.9
12.5°	2494.9	2479.7	2531.2	2578.5	2611.6
15°	2343.2	2334.7	2397.5	2462.8	2505.0
17.5°	2180.8	2176.7	2248.7	2324.9	2379.0
20°	2070.0	2068.8	2147.9	2227.2	2290.0
22.5°	1958.3	1961.0	2044.1	2126.5	2198.1
25°	1790.7	1795.6	1888.4	1970.7	2057.7
27.5°	1635.8	1637.9	1733.9	1820.8	1913.6
30°	1530.0	1536.0	1630.1	1720.0	1816.7
32.5°	1424.2	1431.2	1523.3	1616.2	1714.9
35°	1265.5	1271.5	1357.0	1448.3	1551.0
37.5°	1101.9	1110.1	1185.9	1272.2	1373.3
40°	996.1	1008.2	1075.2	1156.5	1255.6
42.5°	894.3	909.2	971.4	1048.5	1138.0
45°	758.8	773.3	824.3	886.7	967.7
47.5°	642.1	658.8	698.0	751.7	820.8
50°	575.9	591.6	627.8	667.6	732.9
52.5°	517.6	533.3	565.5	596.2	651.8
55°	436.3	454.4	480.7	499.0	540.1
57.5°	369.5	386.9	407.8	416.1	440.9
60°	325.0	344.4	363.3	362.4	375.7
62.5°	284.5	300.9	319.8	306.8	307.5
65°	218.7	236.9	258.3	225.7	205.1
67.5°	176.7	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.1	121.9	101.3
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.1	53.1	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	10.9	10.9	9.9	5.9	4.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	43.6	102.7	49.9	33.9
95°	15.9	80.6	275.9	179.4	125.7
97.5°	28.2	89.3	363.4	350.1	300.5
100°	37.7	94.6	411.5	434.4	393.7
102.5°	46.7	99.5	443.3	504.7	480.5
105°	62.2	107.5	467.8	605.2	597.5
107.5°	77.4	116.9	453.4	685.9	704.1
110°	88.0	124.9	430.1	720.6	754.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	98.6	132.9	409.4	729.1	787.7
115°	113.8	145.5	375.8	712.5	794.6
117.5°	128.9	158.8	356.1	674.1	770.4
120°	138.9	166.8	343.4	644.1	745.0
122.5°	149.5	175.3	335.4	613.3	712.7
125°	162.1	186.7	326.2	566.6	665.6
127.5°	174.5	197.7	319.7	527.0	614.0
130°	181.9	204.6	317.6	499.5	584.9
132.5°	188.8	212.5	314.4	479.6	552.1
135°	199.2	222.4	313.0	446.8	514.1
137.5°	208.9	232.4	308.3	424.6	475.3
140°	216.4	237.7	308.3	408.6	455.2
142.5°	223.8	245.1	305.7	394.7	434.0
145°	235.5	253.0	307.0	379.8	409.6
147.5°	246.5	263.5	306.2	362.6	387.2
150°	253.4	268.3	308.3	355.1	374.5
152.5°	260.8	275.2	307.8	347.1	364.4
155°	269.9	281.6	311.0	336.4	348.7
157.5°	280.9	290.9	310.3	332.3	339.5
160°	285.2	293.6	313.0	327.0	332.1
162.5°	292.0	299.4	311.9	325.3	328.4
165°	298.4	302.9	314.9	319.7	324.2
167.5°	306.2	309.2	314.1	319.3	319.4
170°	308.3	310.3	316.3	315.7	318.9
172.5°	312.0	313.4	314.7	316.1	314.1
175°	315.6	314.3	315.6	312.9	312.3
177.5°	314.9	314.9	313.9	312.8	310.2
180°	312.3	312.3	312.3	312.3	312.3

(END OF REPORT)