

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: P521805

Luminaire Tested: **SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521805  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

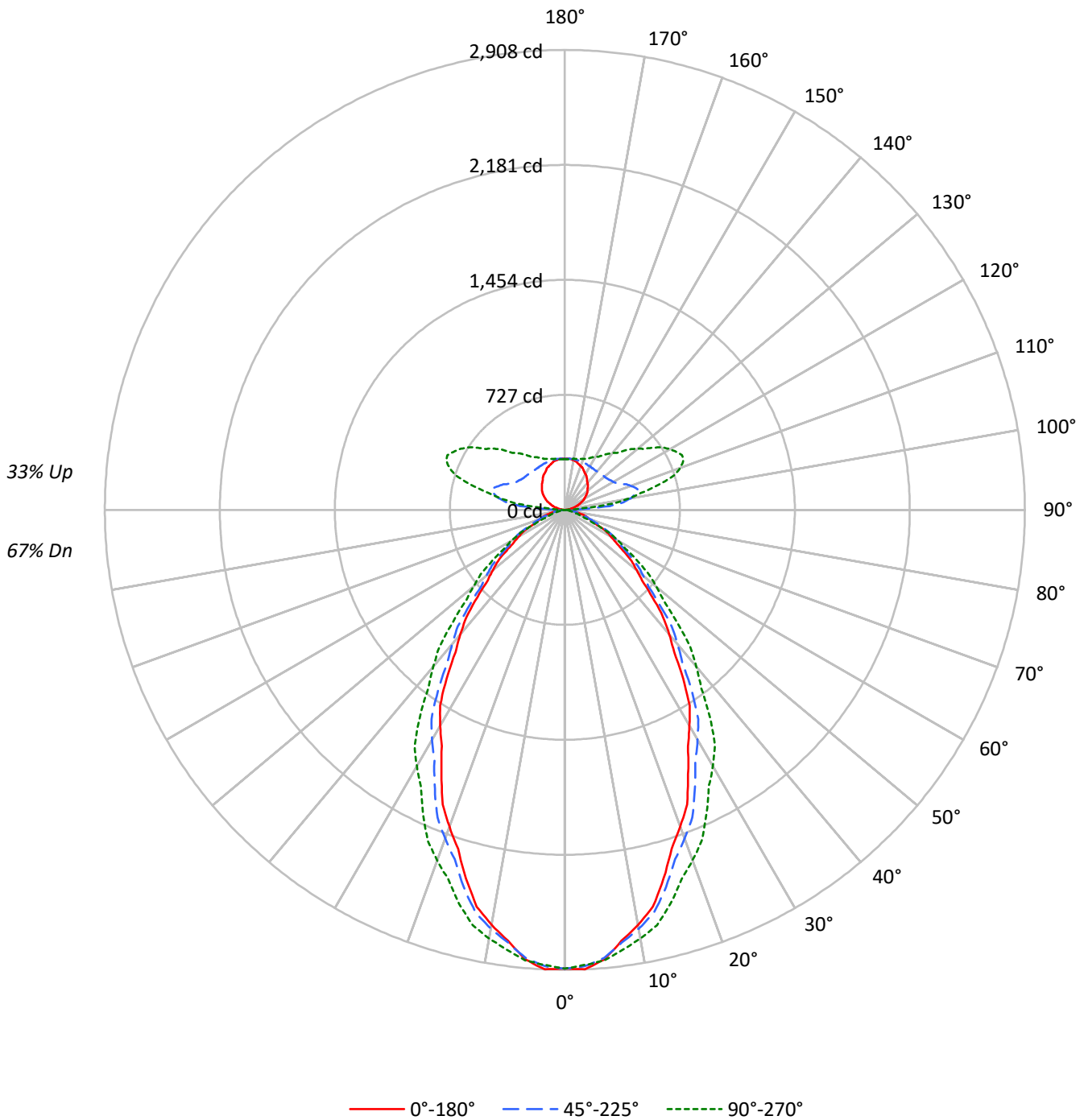
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6310.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 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): 71.6  
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	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					67			
1	103	99	96	93	97	94	91	88	84	81	79	74	73	71	66	65	64	59					59			
2	95	89	83	78	90	84	79	75	75	72	68	67	64	62	60	58	56	52					52			
3	88	79	73	67	83	75	69	65	68	63	59	61	57	54	55	52	50	46					46			
4	81	71	64	59	77	68	62	57	62	56	52	56	51	48	50	47	44	41					41			
5	75	65	57	52	71	62	55	50	56	51	46	51	46	43	46	42	40	37					37			
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	33					33			
7	65	54	46	41	62	52	45	40	47	42	37	43	38	35	39	35	33	30					30			
8	61	50	42	37	58	47	41	36	44	38	34	40	35	32	36	33	30	28					28			
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	27	26					26			
10	54	42	35	31	51	41	34	30	38	32	28	35	30	27	32	28	25	24					24			

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

	0°	45°	90°
0°	26765	26765	26765
5°	26431	26337	26490
10°	24972	25199	25782
15°	23052	23587	24645
20°	20934	21721	23158
25°	18776	19800	21575
30°	16789	17887	19935
35°	14681	15742	17993
40°	12357	13337	15576
45°	10198	11078	13005
50°	8514	9281	10834
55°	7227	7965	8948
60°	6178	6905	7141
65°	4919	5807	4613
70°	4362	4532	2816
75°	4039	3675	1725
80°	3719	3379	1488
85°	3366	3102	1217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	4.2
10°-20°	692.1	11.0
20°-30°	896.5	14.2
30°-40°	877.9	13.9
40°-50°	672.0	10.6
50°-60°	447.8	7.1
60°-70°	244.3	3.9
70°-80°	101.8	1.6
80°-90°	28.8	0.5
90°-100°	165.9	2.6
100°-110°	400.9	6.4
110°-120°	427.6	6.8
120°-130°	346.3	5.5
130°-140°	268.1	4.2
140°-150°	204.5	3.2
150°-160°	148.0	2.3
160°-170°	91.2	1.4
170°-180°	30.9	0.5
0°-30°	1854.7	29.4
0°-40°	2732.5	43.3
0°-60°	3852.3	61.0
0°-90°	4227.2	67.0
90°-120°	994.3	15.8
90°-150°	1813.2	28.7
90°-180°	2083.0	33.0
0°-180°	6310.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2854	2825	2844	2850	2860	265
15°	2413	2405	2469	2537	2580	674
25°	1844	1849	1945	2030	2119	848
35°	1304	1310	1398	1492	1598	810
45°	782	796	849	913	997	610
55°	449	468	495	514	556	407
65°	225	244	266	232	211	234
75°	113	113	103	71	48	121
85°	32	32	29	19	12	35
90°	0	0	0	0	0	2
95°	16	83	284	185	130	18
105°	64	111	482	623	615	68
115°	117	150	387	734	818	116
125°	167	192	336	584	686	149
135°	205	229	322	460	530	158
145°	243	261	316	391	422	152
155°	278	290	320	346	359	128
165°	307	312	324	329	334	87
175°	325	324	325	322	322	31
180°	322	322	322	322	322	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2901.0	2901.0	2901.0	2901.0	2901.0
2.5°	2908.1	2882.2	2888.7	2888.6	2880.6
5°	2853.9	2825.2	2843.7	2850.3	2860.2
7.5°	2748.0	2726.3	2759.9	2784.8	2805.0
10°	2665.5	2646.8	2689.7	2725.9	2752.0
12.5°	2569.7	2554.1	2607.2	2655.8	2689.9
15°	2413.4	2404.7	2469.4	2536.6	2580.2
17.5°	2246.2	2241.9	2316.2	2394.6	2450.3
20°	2132.1	2130.9	2212.3	2294.0	2358.7
22.5°	2017.0	2019.8	2105.4	2190.3	2264.0
25°	1844.4	1849.4	1945.0	2029.8	2119.4
27.5°	1684.8	1687.1	1785.9	1875.4	1971.0
30°	1575.9	1582.1	1679.0	1771.6	1871.2
32.5°	1466.9	1474.1	1569.0	1664.7	1766.3
35°	1303.5	1309.7	1397.7	1491.7	1597.5
37.5°	1134.9	1143.4	1221.5	1310.4	1414.5
40°	1026.0	1038.4	1107.4	1191.2	1293.3
42.5°	921.1	936.5	1000.5	1080.0	1172.1
45°	781.6	796.5	849.0	913.3	996.7
47.5°	661.4	678.6	718.9	774.3	845.5
50°	593.2	609.4	646.6	687.6	754.8
52.5°	533.1	549.3	582.5	614.1	671.3
55°	449.3	468.0	495.2	513.9	556.3
57.5°	380.6	398.5	420.1	428.5	454.2
60°	334.8	354.7	374.2	373.3	387.0
62.5°	293.0	310.0	329.4	316.0	316.7
65°	225.3	244.0	266.0	232.5	211.3
67.5°	182.0	186.0	208.8	162.1	137.0
70°	161.7	161.7	168.0	125.5	104.4
72.5°	142.3	142.3	136.5	102.1	79.9
75°	113.3	113.3	103.1	70.8	48.4
77.5°	87.3	86.3	78.9	52.8	35.1
80°	70.0	70.0	63.6	41.7	28.0
82.5°	54.7	54.7	49.4	32.6	20.9
85°	31.8	31.8	29.3	18.9	11.5
87.5°	11.2	11.2	10.2	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	44.9	105.8	51.4	34.9
95°	16.4	83.0	284.2	184.8	129.5
97.5°	29.0	91.9	374.3	360.6	309.5
100°	38.8	97.5	423.9	447.5	405.5
102.5°	48.1	102.5	456.6	519.8	494.9
105°	64.1	110.7	481.8	623.4	615.4
107.5°	79.7	120.4	466.9	706.4	725.2
110°	90.6	128.6	443.0	742.3	777.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	101.5	136.9	421.7	751.0	811.4
115°	117.2	149.9	387.1	733.8	818.5
117.5°	132.8	163.5	366.8	694.4	793.5
120°	143.1	171.8	353.7	663.4	767.3
122.5°	154.0	180.5	345.5	631.7	734.1
125°	167.0	192.3	336.0	583.6	685.6
127.5°	179.8	203.6	329.3	542.9	632.4
130°	187.4	210.7	327.1	514.5	602.4
132.5°	194.5	218.9	323.8	494.0	568.6
135°	205.1	229.1	322.3	460.2	529.5
137.5°	215.2	239.3	317.6	437.3	489.6
140°	222.8	244.8	317.6	420.9	468.9
142.5°	230.5	252.5	314.8	406.5	447.0
145°	242.6	260.6	316.2	391.2	421.8
147.5°	253.9	271.4	315.4	373.5	398.8
150°	261.0	276.3	317.6	365.7	385.7
152.5°	268.6	283.4	317.0	357.5	375.4
155°	278.0	290.0	320.3	346.5	359.1
157.5°	289.4	299.6	319.6	342.3	349.7
160°	293.7	302.4	322.3	336.8	342.1
162.5°	300.8	308.4	321.2	335.1	338.3
165°	307.3	312.0	324.4	329.3	333.9
167.5°	315.4	318.5	323.6	328.9	329.0
170°	317.6	319.6	325.7	325.1	328.5
172.5°	321.4	322.9	324.1	325.6	323.6
175°	325.1	323.7	325.1	322.3	321.7
177.5°	324.4	324.4	323.3	322.1	319.5
180°	321.7	321.7	321.7	321.7	321.7

(END OF REPORT)