

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: P519153

Luminaire Tested: **SQ4-WB-050U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519153  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-050U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

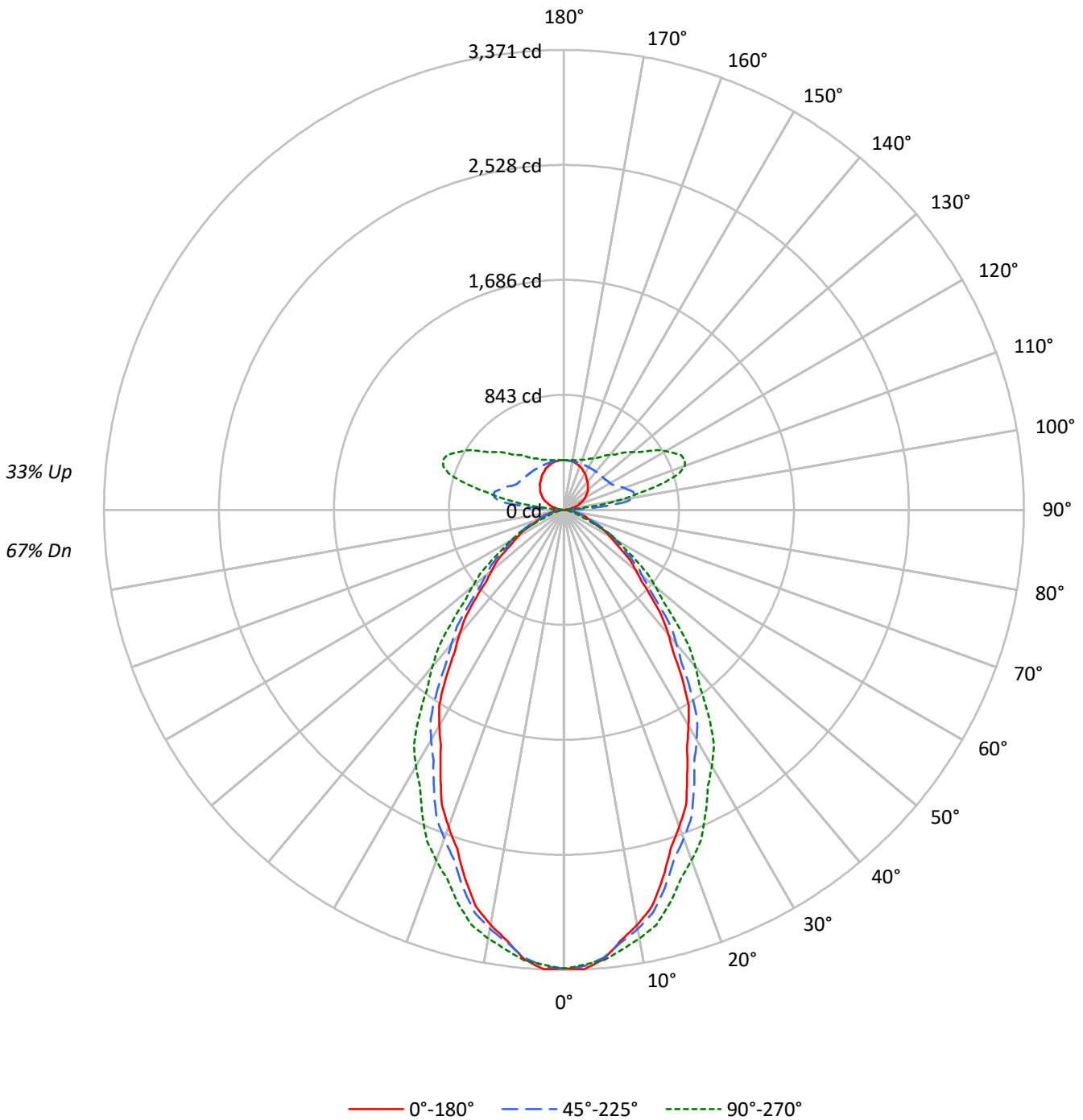
Lumens per Lamp: N/A  
Luminaire Lumens: 7278.8 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 87.8  
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	82	80	75	73	71	66	65	64	60				
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53				
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47				
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41				
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34				
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31				
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26				
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24				

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

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19297	19472	19923
15°	17813	18226	19044
20°	16177	16785	17896
25°	14509	15301	16672
30°	12973	13822	15404
35°	11344	12164	13904
40°	9548	10306	12036
45°	7880	8560	10049
50°	6580	7172	8372
55°	5585	6154	6915
60°	4773	5336	5517
65°	3802	4488	3564
70°	3370	3503	2176
75°	3120	2840	1333
80°	2873	2614	1151
85°	2604	2392	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	4.2
10°-20°	802.2	11.0
20°-30°	1039.1	14.3
30°-40°	1017.5	14.0
40°-50°	778.9	10.7
50°-60°	519.0	7.1
60°-70°	283.2	3.9
70°-80°	118.0	1.6
80°-90°	34.8	0.5
90°-100°	174.8	2.4
100°-110°	474.9	6.5
110°-120°	488.2	6.7
120°-130°	390.4	5.4
130°-140°	306.7	4.2
140°-150°	235.2	3.2
150°-160°	169.1	2.3
160°-170°	103.4	1.4
170°-180°	34.8	0.5
0°-30°	2149.7	29.5
0°-40°	3167.3	43.5
0°-60°	4465.1	61.3
0°-90°	4901.2	67.3
90°-120°	1137.9	15.6
90°-150°	2070.2	28.4
90°-180°	2378.0	32.7
0°-180°	7278.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3308	3275	3296	3304	3315	308
15°	2797	2787	2862	2940	2991	781
25°	2138	2144	2254	2353	2457	983
35°	1511	1518	1620	1729	1852	939
45°	906	923	984	1059	1155	706
55°	521	542	574	596	645	472
65°	261	283	308	269	245	271
75°	131	131	120	82	56	140
85°	37	37	34	22	13	40
90°	1	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3370.8	3340.8	3348.4	3348.1	3338.9
5°	3307.9	3274.7	3296.1	3303.8	3315.3
7.5°	3185.2	3160.1	3199.0	3227.9	3251.3
10°	3089.6	3067.9	3117.6	3159.6	3189.9
12.5°	2978.6	2960.4	3022.0	3078.4	3117.9
15°	2797.4	2787.3	2862.3	2940.2	2990.7
17.5°	2603.6	2598.6	2684.7	2775.6	2840.2
20°	2471.4	2469.9	2564.3	2659.0	2734.0
22.5°	2338.0	2341.1	2440.4	2538.8	2624.2
25°	2137.9	2143.7	2254.5	2352.7	2456.6
27.5°	1952.9	1955.5	2070.0	2173.8	2284.6
30°	1826.6	1833.8	1946.1	2053.5	2168.9
32.5°	1700.3	1708.7	1818.6	1929.6	2047.3
35°	1510.8	1518.1	1620.0	1729.0	1851.7
37.5°	1315.5	1325.3	1415.8	1518.9	1639.5
40°	1189.2	1203.6	1283.6	1380.7	1499.0
42.5°	1067.6	1085.5	1159.7	1251.8	1358.6
45°	905.9	923.2	984.1	1058.6	1155.3
47.5°	766.6	786.5	833.3	897.5	980.0
50°	687.6	706.3	749.5	797.0	874.9
52.5°	617.9	636.7	675.2	711.8	778.1
55°	520.8	542.5	573.9	595.7	644.8
57.5°	441.2	461.9	486.9	496.7	526.4
60°	388.0	411.1	433.8	432.7	448.5
62.5°	339.6	359.3	381.8	366.2	367.1
65°	261.2	282.8	308.4	269.4	244.9
67.5°	211.0	215.6	242.0	187.9	158.8
70°	187.4	187.4	194.8	145.5	121.0
72.5°	165.0	165.0	158.2	118.3	92.7
75°	131.3	131.3	119.5	82.0	56.1
77.5°	101.2	100.1	91.5	61.2	40.7
80°	81.1	81.1	73.8	48.3	32.5
82.5°	63.4	63.4	57.2	37.8	24.2
85°	36.9	36.9	33.9	21.9	13.3
87.5°	13.2	13.9	13.4	9.2	8.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)