

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: P519464

Luminaire Tested: **SQ4-WB-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519464  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-050D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

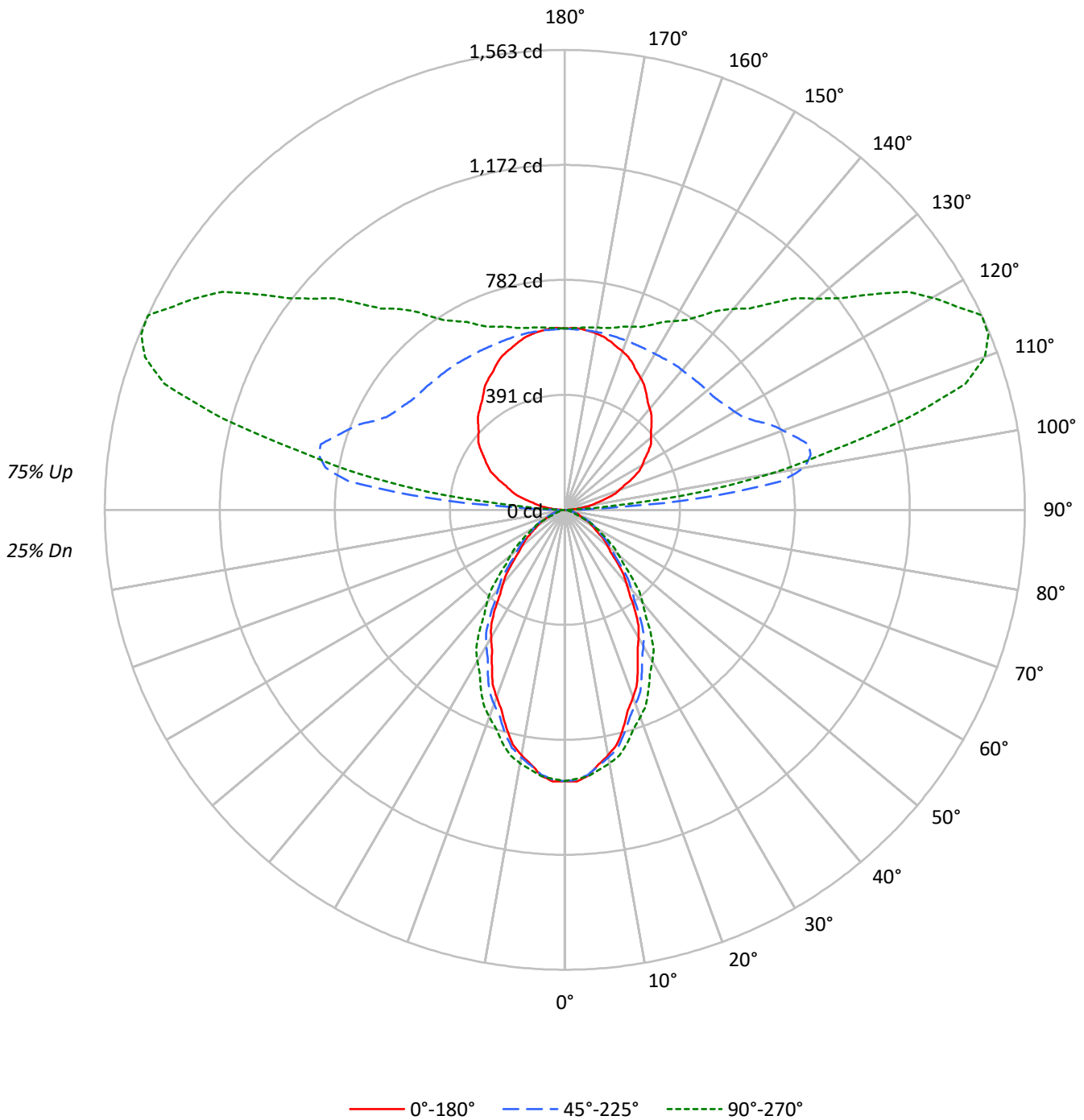
Lumens per Lamp: N/A  
Luminaire Lumens: 5323.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

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

	0°	45°	90°
0°	8507	8507	8507
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7832
20°	6653	6903	7360
25°	5968	6293	6857
30°	5335	5685	6336
35°	4666	5003	5718
40°	3928	4239	4950
45°	3241	3520	4134
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2194	2270
65°	1563	1847	1467
70°	1387	1440	896
75°	1283	1169	549
80°	1185	1073	473
85°	1069	984	381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	1.6
10°-20°	220.0	4.1
20°-30°	284.9	5.4
30°-40°	279.0	5.2
40°-50°	213.6	4.0
50°-60°	142.3	2.7
60°-70°	77.7	1.5
70°-80°	32.4	0.6
80°-90°	10.6	0.2
90°-100°	288.3	5.4
100°-110°	776.6	14.6
110°-120°	815.0	15.3
120°-130°	661.3	12.4
130°-140°	518.7	9.7
140°-150°	398.2	7.5
150°-160°	286.3	5.4
160°-170°	174.9	3.3
170°-180°	59.0	1.1
0°-30°	589.4	11.1
0°-40°	868.4	16.3
0°-60°	1224.3	23.0
0°-90°	1344.9	25.3
90°-120°	1879.8	35.3
90°-150°	3458.0	65.0
90°-180°	3978.0	74.7
0°-180°	5323.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	907	898	904	906	909	84
15°	767	764	785	806	820	214
25°	586	588	618	645	674	270
35°	414	416	444	474	508	258
45°	248	253	270	290	317	194
55°	143	149	157	163	177	129
65°	72	78	85	74	67	74
75°	36	36	33	22	15	38
85°	10	10	9	6	4	11
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	922.0	922.0	922.0	922.0	922.0
2.5°	924.2	916.0	918.1	918.0	915.5
5°	907.0	897.9	903.8	905.9	909.0
7.5°	873.3	866.5	877.1	885.1	891.5
10°	847.1	841.2	854.8	866.3	874.6
12.5°	816.7	811.7	828.6	844.1	854.9
15°	767.0	764.3	784.8	806.2	820.0
17.5°	713.9	712.5	736.1	761.0	778.8
20°	677.6	677.2	703.1	729.1	749.6
22.5°	641.0	641.9	669.1	696.1	719.5
25°	586.2	587.8	618.2	645.1	673.6
27.5°	535.5	536.2	567.6	596.0	626.4
30°	500.8	502.8	533.6	563.0	594.7
32.5°	466.2	468.5	498.6	529.1	561.4
35°	414.3	416.2	444.2	474.1	507.7
37.5°	360.7	363.4	388.2	416.5	449.5
40°	326.1	330.0	352.0	378.6	411.0
42.5°	292.7	297.6	318.0	343.2	372.5
45°	248.4	253.1	269.8	290.3	316.8
47.5°	210.2	215.7	228.5	246.1	268.7
50°	188.5	193.7	205.5	218.5	239.9
52.5°	169.4	174.6	185.1	195.2	213.4
55°	142.8	148.7	157.4	163.3	176.8
57.5°	121.0	126.7	133.5	136.2	144.3
60°	106.4	112.7	118.9	118.6	123.0
62.5°	93.1	98.5	104.7	100.4	100.7
65°	71.6	77.5	84.6	73.9	67.2
67.5°	57.9	59.1	66.3	51.5	43.5
70°	51.4	51.4	53.4	39.9	33.2
72.5°	45.2	45.2	43.4	32.4	25.4
75°	36.0	36.0	32.8	22.5	15.4
77.5°	27.8	27.4	25.1	16.8	11.2
80°	22.3	22.3	20.2	13.3	8.9
82.5°	17.4	17.4	15.7	10.4	6.6
85°	10.1	10.1	9.3	6.0	3.6
87.5°	3.9	4.5	5.1	4.0	3.7
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)