

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: P521374

Luminaire Tested: **SQ4-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521374  
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-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

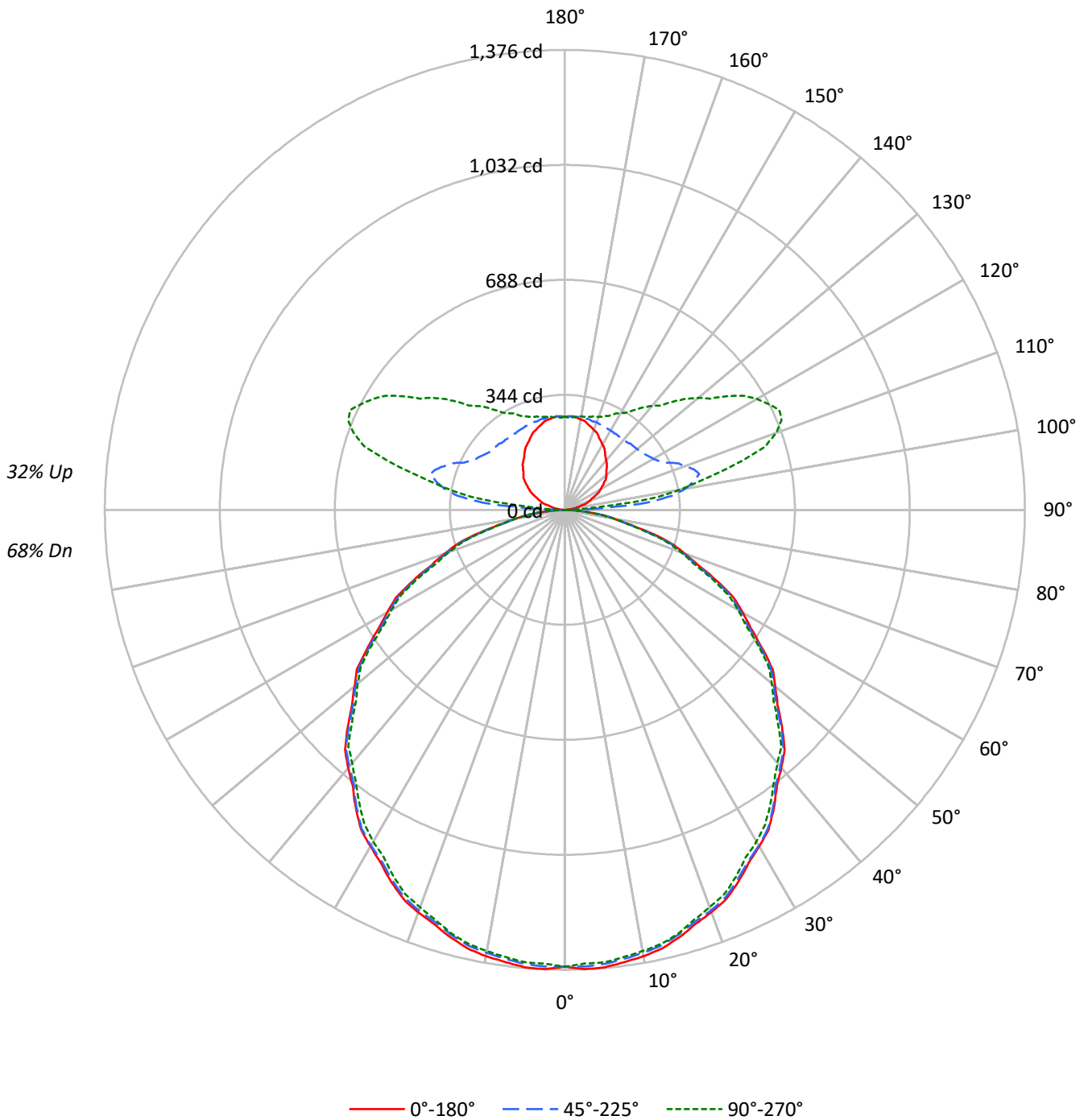
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5701.9 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.8  
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	0
RCR																		
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	92	85	78	73	87	80	74	69	72	67	63	64	60	57	56	54	51	48
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	58	50	44	66	55	48	42	50	44	39	45	39	35	40	36	32	29
6	65	52	44	38	61	50	42	36	45	38	34	40	35	31	36	32	28	26
7	60	47	39	33	57	45	37	32	41	34	30	37	31	27	33	28	25	23
8	56	43	35	29	53	41	34	28	37	31	26	34	28	24	30	26	22	20
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	29	23	20	26	21	18	16

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

	0°	45°	90°
0°	12610	12610	12610
5°	12722	12632	12586
10°	12704	12612	12557
15°	12644	12568	12531
20°	12582	12524	12428
25°	12506	12436	12326
30°	12387	12356	12210
35°	12278	12234	12080
40°	12137	12078	11913
45°	11983	11919	11753
50°	11788	11718	11605
55°	11585	11474	11348
60°	11317	11190	11027
65°	10946	10732	10540
70°	10324	10083	9900
75°	9407	9094	8919
80°	7715	7715	7715
85°	5505	6235	6542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.4	2.3
10°-20°	370.6	6.5
20°-30°	560.6	9.8
30°-40°	675.1	11.8
40°-50°	701.1	12.3
50°-60°	636.3	11.2
60°-70°	485.5	8.5
70°-80°	271.4	4.8
80°-90°	70.7	1.2
90°-100°	143.4	2.5
100°-110°	346.6	6.1
110°-120°	369.6	6.5
120°-130°	299.4	5.3
130°-140°	231.8	4.1
140°-150°	176.8	3.1
150°-160°	128.0	2.2
160°-170°	78.8	1.4
170°-180°	26.7	0.5
0°-30°	1060.6	18.6
0°-40°	1735.7	30.4
0°-60°	3073.2	53.9
0°-90°	3900.7	68.4
90°-120°	859.6	15.1
90°-150°	1567.6	27.5
90°-180°	1801.0	31.6
0°-180°	5701.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1374	1359	1364	1361	1359	130
15°	1324	1310	1316	1312	1312	373
25°	1228	1216	1222	1211	1211	566
35°	1090	1080	1086	1072	1072	681
45°	918	912	914	901	901	708
55°	720	718	713	706	706	644
65°	501	498	492	485	483	495
75°	264	260	255	251	250	277
85°	52	57	59	60	62	64
90°	0	0	0	0	0	3
95°	14	72	246	160	112	16
105°	55	96	416	539	532	58
115°	101	130	335	634	708	100
125°	144	166	290	505	593	129
135°	177	198	279	398	458	137
145°	210	225	273	338	365	131
155°	240	251	277	300	310	111
165°	266	270	280	285	289	75
175°	281	280	281	279	278	27
180°	278	278	278	278	278	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1366.8	1366.8	1366.8	1366.8	1366.8
2.5°	1375.5	1363.9	1367.6	1365.9	1359.0
5°	1373.7	1359.3	1363.9	1360.9	1359.0
7.5°	1364.7	1350.3	1354.9	1350.9	1349.8
10°	1356.0	1341.6	1346.2	1342.3	1340.3
12.5°	1344.3	1330.6	1335.2	1330.5	1330.1
15°	1323.7	1310.2	1315.8	1311.9	1311.9
17.5°	1299.5	1287.0	1292.8	1287.1	1286.2
20°	1281.5	1269.0	1275.6	1266.7	1265.8
22.5°	1261.1	1249.3	1255.2	1244.8	1245.4
25°	1228.5	1216.0	1221.6	1210.8	1210.8
27.5°	1191.0	1178.7	1185.7	1172.7	1172.0
30°	1162.7	1151.2	1159.8	1146.1	1146.1
32.5°	1134.5	1124.5	1130.7	1117.7	1115.4
35°	1090.1	1080.5	1086.2	1072.5	1072.5
37.5°	1041.5	1033.6	1036.6	1023.9	1026.7
40°	1007.7	999.1	1002.8	990.0	989.1
42.5°	973.2	965.3	968.3	955.6	958.4
45°	918.4	911.7	913.5	900.8	900.8
47.5°	862.9	857.9	856.4	845.1	847.0
50°	821.3	819.4	816.4	806.6	808.5
52.5°	783.6	779.4	775.5	766.5	767.7
55°	720.2	718.3	713.3	705.5	705.5
57.5°	659.6	655.3	649.6	641.5	641.5
60°	613.3	611.3	606.4	597.6	597.6
62.5°	569.3	566.6	560.9	552.8	552.0
65°	501.4	497.6	491.6	484.7	482.8
67.5°	430.6	426.5	421.7	415.2	414.1
70°	382.7	377.9	373.8	368.9	367.0
72.5°	334.0	331.5	326.7	321.8	320.7
75°	263.9	260.1	255.1	251.2	250.2
77.5°	190.0	189.4	187.6	185.1	186.0
80°	145.2	146.2	145.2	144.3	145.2
82.5°	105.2	107.7	107.5	107.4	108.3
85°	52.0	56.8	58.9	59.9	61.8
87.5°	14.9	19.5	23.5	24.4	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	38.8	91.4	44.5	30.2
95°	14.1	71.7	245.7	159.8	111.9
97.5°	25.1	79.5	323.6	311.7	267.6
100°	33.6	84.3	366.5	386.8	350.6
102.5°	41.6	88.6	394.7	449.4	427.9
105°	55.4	95.7	416.5	538.9	532.0
107.5°	68.9	104.1	403.7	610.7	627.0
110°	78.4	111.2	383.0	641.7	672.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>87.8</i>	118.3	364.6	649.3	701.5
115°	<i>101.3</i>	129.6	334.6	634.4	707.6
117.5°	<i>114.8</i>	141.4	317.1	600.3	686.0
120°	<i>123.7</i>	148.5	305.8	573.5	663.4
122.5°	<i>133.2</i>	156.1	298.7	546.2	634.7
125°	<i>144.3</i>	166.2	290.5	504.6	592.7
127.5°	<i>155.4</i>	176.0	284.7	469.3	546.7
130°	<i>162.0</i>	182.2	282.8	444.8	520.8
132.5°	<i>168.1</i>	189.2	280.0	427.1	491.6
135°	<i>177.3</i>	198.1	278.7	397.9	457.8
137.5°	<i>186.1</i>	206.9	274.6	378.1	423.3
140°	<i>192.7</i>	211.7	274.6	363.9	405.3
142.5°	<i>199.3</i>	218.3	272.2	351.5	386.5
145°	<i>209.7</i>	225.3	273.4	338.2	364.7
147.5°	<i>219.5</i>	234.6	272.7	322.9	344.8
150°	<i>225.7</i>	238.9	274.6	316.2	333.5
152.5°	<i>232.3</i>	245.0	274.1	309.1	324.5
155°	<i>240.4</i>	250.8	276.9	299.5	310.5
157.5°	<i>250.2</i>	259.0	276.3	295.9	302.4
160°	<i>253.9</i>	261.4	278.7	291.2	295.8
162.5°	<i>260.1</i>	266.6	277.7	289.7	292.5
165°	<i>265.7</i>	269.7	280.4	284.7	288.7
167.5°	<i>272.7</i>	275.3	279.7	284.3	284.5
170°	<i>274.6</i>	276.3	281.6	281.1	284.0
172.5°	<i>277.9</i>	279.1	280.2	281.5	279.7
175°	<i>281.0</i>	279.9	281.0	278.7	278.1
177.5°	<i>280.4</i>	280.4	279.5	278.5	276.2
180°	<i>278.1</i>	278.1	278.1	278.1	278.1

(END OF REPORT)