

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: P564030

Luminaire Tested: **SQ4-PR1-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564030  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

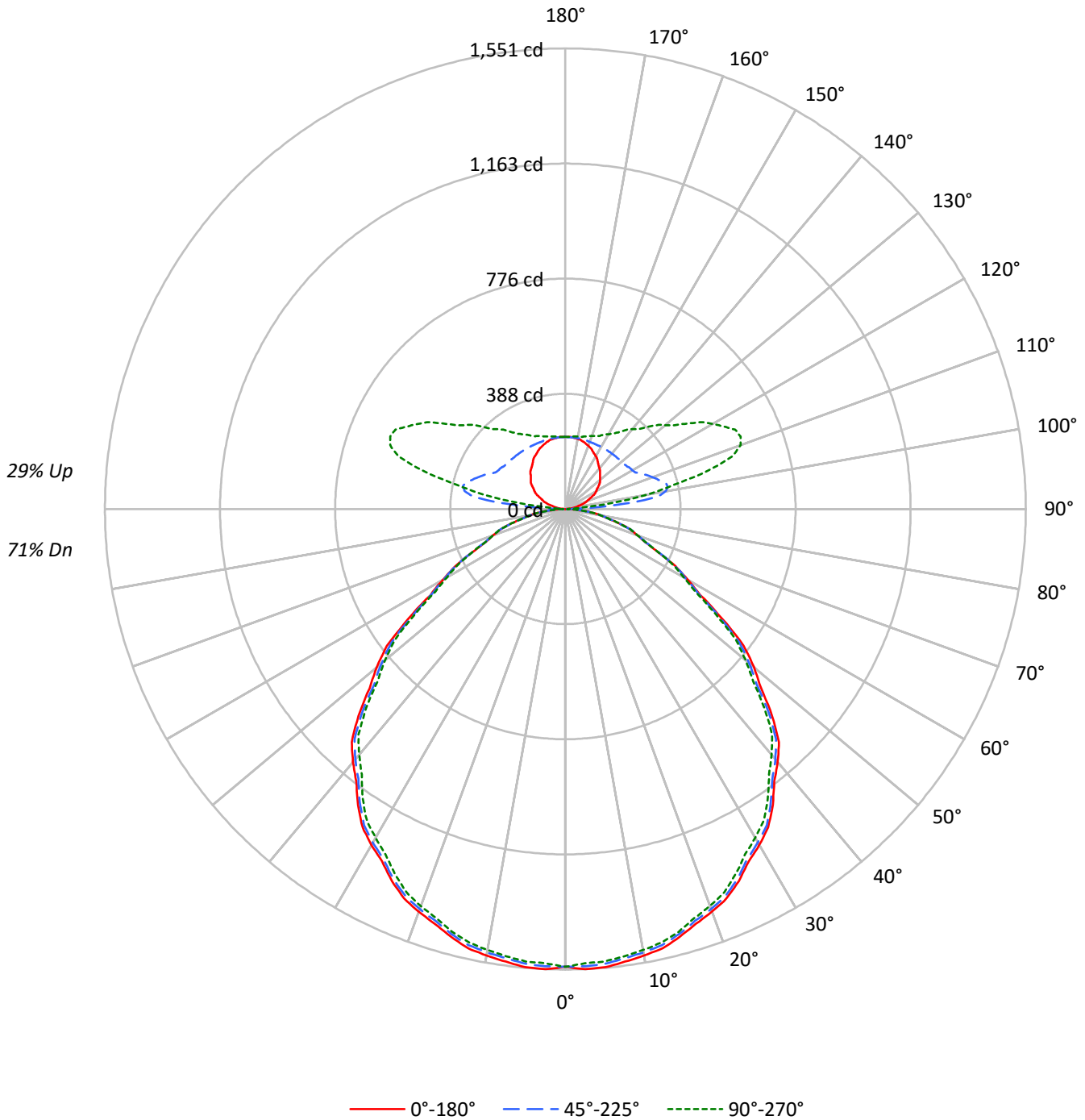
Lumens per Lamp: N/A  
Luminaire Lumens: 5439.7 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 55.9  
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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

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

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13593	13400
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11378
55°	10380	10145	9931
60°	8746	8673	8501
65°	7564	7595	7536
70°	6949	6984	6984
75°	6673	6673	6720
80°	6280	6349	6280
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	2.7
10°-20°	417.1	7.7
20°-30°	629.1	11.6
30°-40°	749.6	13.8
40°-50°	739.0	13.6
50°-60°	564.8	10.4
60°-70°	349.5	6.4
70°-80°	198.5	3.6
80°-90°	61.3	1.1
90°-100°	116.5	2.1
100°-110°	316.6	5.8
110°-120°	325.5	6.0
120°-130°	260.2	4.8
130°-140°	204.5	3.8
140°-150°	156.8	2.9
150°-160°	112.8	2.1
160°-170°	69.0	1.3
170°-180°	23.2	0.4
0°-30°	1191.9	21.9
0°-40°	1941.5	35.7
0°-60°	3245.3	59.7
0°-90°	3854.6	70.9
90°-120°	758.6	13.9
90°-150°	1380.1	25.4
90°-180°	1585.0	29.1
0°-180°	5439.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1550	1533	1538	1532	1530	147
15°	1491	1476	1482	1476	1474	421
25°	1382	1365	1373	1358	1357	636
35°	1218	1203	1207	1191	1190	760
45°	985	972	968	951	948	755
55°	645	635	631	620	617	578
65°	346	344	348	345	345	351
75°	187	187	187	188	188	198
85°	48	50	53	53	53	56
90°	1	3	6	7	7	3
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1541.5	1541.5	1541.5	1541.5	1541.5
2.5°	1551.1	1537.6	1541.5	1538.2	1530.9
5°	1549.5	1532.6	1537.6	1532.2	1529.6
7.5°	1537.6	1520.9	1525.9	1520.5	1519.0
10°	1526.9	1511.4	1516.3	1511.0	1508.4
12.5°	1515.3	1498.6	1504.6	1498.2	1495.6
15°	1491.1	1475.5	1481.8	1476.4	1473.8
17.5°	1464.5	1447.9	1454.2	1448.0	1444.6
20°	1443.3	1427.7	1434.0	1424.7	1423.4
22.5°	1419.9	1404.3	1410.6	1398.1	1397.9
25°	1382.2	1365.3	1372.9	1358.3	1357.0
27.5°	1337.3	1321.8	1328.0	1313.1	1311.6
30°	1306.5	1291.0	1297.2	1281.2	1278.6
32.5°	1271.5	1256.9	1262.2	1246.2	1244.7
35°	1217.6	1203.3	1206.9	1191.0	1189.7
37.5°	1156.2	1143.2	1145.3	1127.8	1126.5
40°	1112.7	1099.7	1100.7	1082.1	1080.8
42.5°	1064.9	1051.9	1050.8	1032.2	1030.9
45°	985.2	972.2	967.9	950.6	948.0
47.5°	894.4	881.4	873.4	859.3	857.5
50°	828.5	815.5	808.6	796.6	792.7
52.5°	757.4	744.4	738.5	727.5	723.6
55°	645.3	634.9	630.7	620.0	617.4
57.5°	538.8	531.8	530.6	520.2	519.2
60°	474.0	470.1	470.0	460.7	460.7
62.5°	418.8	415.9	418.0	411.9	410.8
65°	346.5	344.0	347.9	345.2	345.2
67.5°	289.5	289.5	291.8	290.8	290.8
70°	257.6	257.6	258.9	258.9	258.9
72.5°	228.9	227.9	231.3	231.3	230.2
75°	187.2	187.2	187.2	188.5	188.5
77.5°	145.8	146.0	147.1	146.8	145.8
80°	118.2	119.5	119.5	118.2	118.2
82.5°	90.6	91.9	91.9	91.6	90.6
85°	47.8	50.4	53.1	53.1	53.1
87.5°	14.0	18.6	22.3	22.6	21.6
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>87.0</i>	110.9	298.0	582.7	639.0
115°	<i>99.9</i>	121.3	278.7	554.4	631.5
117.5°	<i>112.1</i>	132.5	266.3	514.4	601.2
120°	<i>120.2</i>	140.1	260.7	487.5	573.7
122.5°	<i>127.1</i>	146.9	257.0	460.6	543.8
125°	<i>137.4</i>	156.5	252.1	424.8	501.1
127.5°	<i>146.6</i>	165.5	249.5	397.7	463.2
130°	<i>152.2</i>	170.5	248.2	380.7	439.5
132.5°	<i>157.8</i>	176.2	247.0	366.2	418.2
135°	<i>165.5</i>	183.8	245.1	346.0	390.3
137.5°	<i>173.8</i>	190.4	244.2	328.2	365.5
140°	<i>178.8</i>	194.8	243.5	316.9	350.5
142.5°	<i>183.8</i>	198.6	242.9	308.0	336.1
145°	<i>191.2</i>	205.0	242.0	294.0	316.1
147.5°	<i>199.7</i>	211.4	241.2	283.0	300.4
150°	<i>205.3</i>	215.2	241.2	276.6	290.4
152.5°	<i>209.7</i>	218.4	240.6	271.0	282.3
155°	<i>216.2</i>	223.9	240.4	264.0	271.6
157.5°	<i>222.6</i>	228.6	240.4	259.3	265.1
160°	<i>226.4</i>	231.7	240.4	256.1	260.7
162.5°	<i>230.1</i>	234.2	241.0	253.6	257.0
165°	<i>234.2</i>	237.2	241.2	251.4	252.1
167.5°	<i>238.4</i>	239.9	242.0	248.7	249.3
170°	<i>239.6</i>	241.2	242.0	247.4	247.4
172.5°	<i>240.9</i>	241.8	242.0	246.2	246.2
175°	<i>242.8</i>	243.5	242.0	245.1	244.3
177.5°	<i>243.4</i>	243.4	241.5	244.0	242.8
180°	<i>242.8</i>	242.8	242.8	242.8	242.8

(END OF REPORT)