

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: P564702

Luminaire Tested: **SQ4-PW1-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564702  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

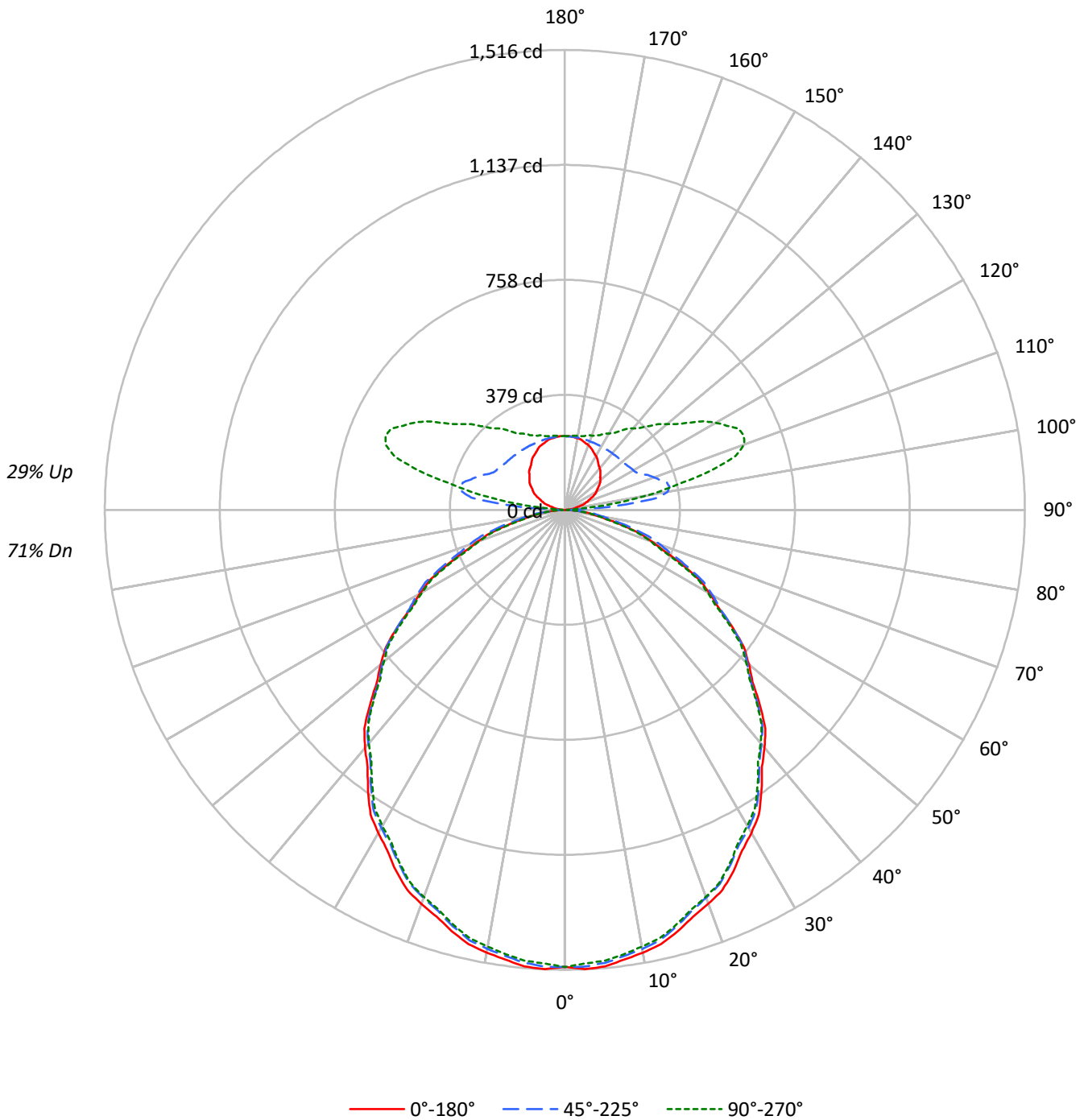
Lumens per Lamp: N/A  
Luminaire Lumens: 5420.3 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13771	13696
15°	13735	13583	13532
20°	13571	13363	13336
25°	13382	13138	13098
30°	13098	12900	12816
35°	12726	12547	12473
40°	12329	12138	12090
45°	11850	11695	11643
50°	11359	11263	11187
55°	10829	10829	10658
60°	10167	10365	9996
65°	9304	9769	9073
70°	8203	8991	7987
75°	7005	8046	6816
80°	5430	6774	5504
85°	3515	5198	4637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.9	2.6
10°-20°	400.7	7.4
20°-30°	594.3	11.0
30°-40°	695.4	12.8
40°-50°	692.3	12.8
50°-60°	597.8	11.0
60°-70°	430.3	7.9
70°-80°	225.7	4.2
80°-90°	56.9	1.0
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°	1136.9	21.0
0°-40°	1832.3	33.8
0°-60°	3122.4	57.6
0°-90°	3835.2	70.8
90°-120°	758.6	14.0
90°-150°	1380.1	25.5
90°-180°	1585.0	29.2
0°-180°	5420.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1511	1494	1499	1495	1492	143
15°	1438	1420	1422	1419	1417	405
25°	1314	1292	1291	1283	1287	604
35°	1130	1114	1114	1104	1107	706
45°	908	900	896	894	892	701
55°	673	672	673	664	663	601
65°	426	439	448	430	416	422
75°	196	215	226	211	191	211
85°	33	44	49	46	44	44
90°	1	3	6	7	7	2
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°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1515.5	1503.1	1507.0	1503.7	1496.4
5°	1511.0	1494.1	1499.1	1495.0	1492.4
7.5°	1495.6	1480.0	1483.7	1479.4	1477.8
10°	1481.8	1466.2	1469.9	1464.5	1461.9
12.5°	1465.9	1449.3	1452.9	1447.5	1446.0
15°	1438.0	1419.8	1422.1	1419.3	1416.7
17.5°	1405.6	1387.2	1387.5	1383.3	1382.8
20°	1382.2	1362.7	1361.0	1355.7	1358.3
22.5°	1356.7	1336.2	1334.4	1327.1	1330.7
25°	1314.5	1292.4	1290.6	1282.7	1286.6
27.5°	1265.6	1243.8	1243.9	1232.8	1237.0
30°	1229.5	1208.8	1210.9	1197.8	1203.0
32.5°	1191.3	1172.6	1173.8	1160.6	1165.8
35°	1129.9	1114.4	1114.0	1103.5	1107.4
37.5°	1067.3	1053.5	1051.3	1045.3	1046.3
40°	1023.7	1012.0	1007.8	1003.8	1003.8
42.5°	978.0	967.4	963.2	960.2	959.2
45°	908.2	900.4	896.3	893.6	892.3
47.5°	839.2	831.9	828.3	826.4	825.1
50°	791.4	786.2	784.7	780.7	779.4
52.5°	743.6	740.4	739.0	734.0	732.7
55°	673.2	671.9	673.2	663.9	662.6
57.5°	599.9	602.0	606.3	593.7	590.6
60°	551.0	556.2	561.7	546.9	541.7
62.5°	501.1	509.4	517.0	500.1	492.9
65°	426.2	439.2	447.5	429.9	415.6
67.5°	354.0	370.1	380.0	361.1	345.0
70°	304.1	322.2	333.3	314.3	296.1
72.5°	260.5	280.8	289.7	271.8	253.6
75°	196.5	214.7	225.7	210.7	191.2
77.5°	139.4	156.6	165.7	152.6	136.5
80°	102.2	120.4	127.5	116.5	103.6
82.5°	72.5	87.6	92.4	85.8	77.0
85°	33.2	43.6	49.1	46.4	43.8
87.5°	8.7	16.4	21.3	21.6	22.6
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)