

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: P564540

Luminaire Tested: **SQ4-PW1-025U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564540  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

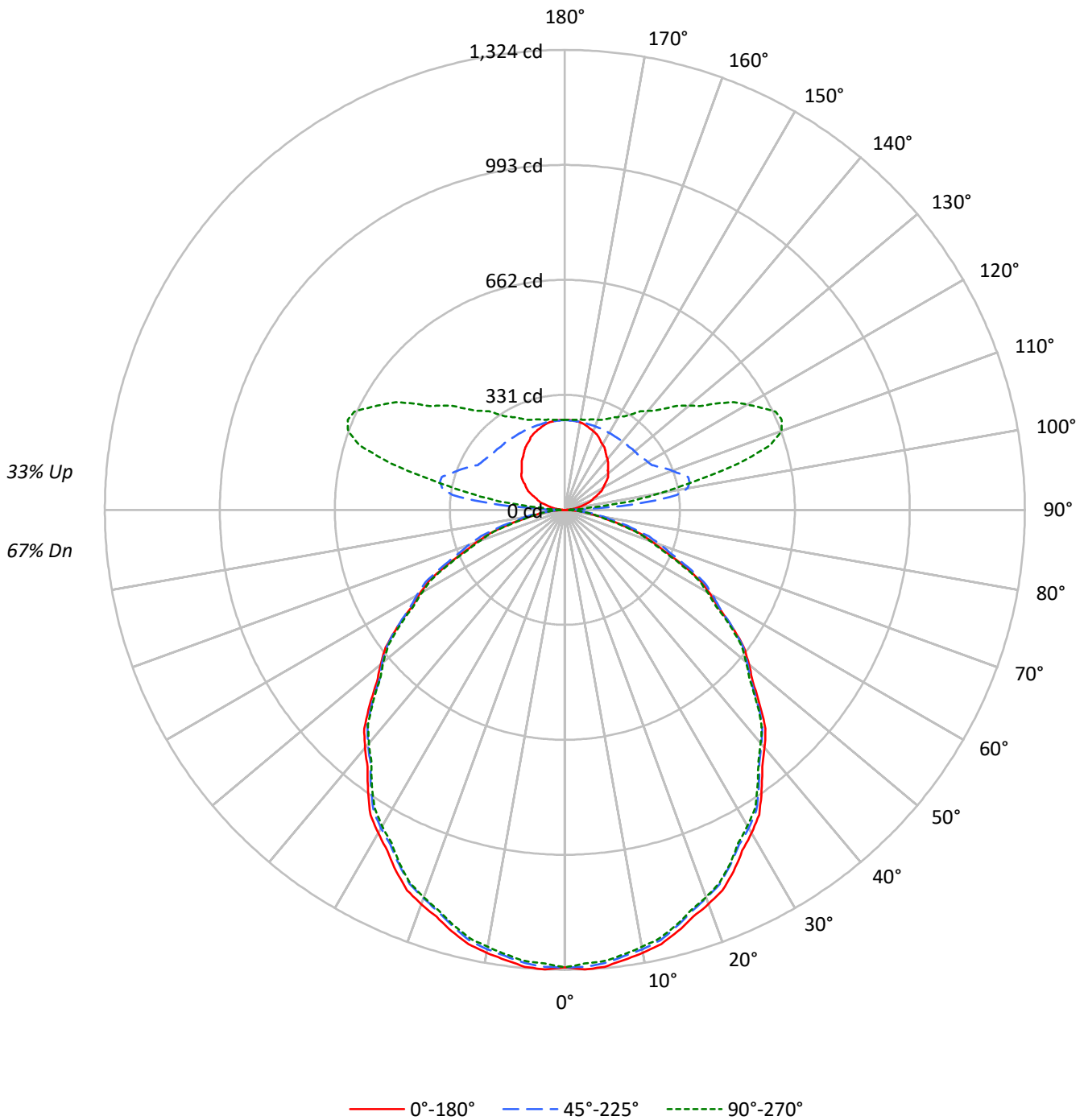
Lumens per Lamp: N/A  
Luminaire Lumens: 5030.5 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6066	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5637	5599
35°	5561	5482	5450
40°	5387	5303	5282
45°	5177	5110	5087
50°	4963	4921	4888
55°	4732	4732	4657
60°	4442	4528	4368
65°	4065	4268	3965
70°	3584	3928	3489
75°	3060	3515	2978
80°	2372	2959	2404
85°	1535	2271	2027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	2.5
10°-20°	350.1	7.0
20°-30°	519.3	10.3
30°-40°	607.7	12.1
40°-50°	604.9	12.0
50°-60°	522.4	10.4
60°-70°	376.0	7.5
70°-80°	197.2	3.9
80°-90°	50.3	1.0
90°-100°	126.2	2.5
100°-110°	331.8	6.6
110°-120°	344.1	6.8
120°-130°	276.0	5.5
130°-140°	216.6	4.3
140°-150°	166.2	3.3
150°-160°	119.7	2.4
160°-170°	73.2	1.5
170°-180°	24.7	0.5
0°-30°	993.4	19.7
0°-40°	1601.1	31.8
0°-60°	2728.4	54.2
0°-90°	3351.9	66.6
90°-120°	802.1	15.9
90°-150°	1460.9	29.0
90°-180°	1679.0	33.4
0°-180°	5030.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1320	1306	1310	1306	1304	125
15°	1257	1241	1243	1240	1238	354
25°	1149	1129	1128	1121	1124	528
35°	987	974	974	964	968	617
45°	794	787	783	781	780	612
55°	588	587	588	580	579	525
65°	372	384	391	376	363	369
75°	172	188	197	184	167	184
85°	29	38	43	41	38	38
90°	2	5	13	7	7	2
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1324.3	1313.4	1316.9	1314.0	1307.6
5°	1320.4	1305.6	1309.9	1306.4	1304.1
7.5°	1306.9	1293.3	1296.5	1292.7	1291.4
10°	1294.9	1281.2	1284.4	1279.7	1277.4
12.5°	1280.9	1266.4	1269.6	1264.9	1263.5
15°	1256.6	1240.7	1242.6	1240.3	1238.0
17.5°	1228.3	1212.1	1212.5	1208.7	1208.3
20°	1207.8	1190.8	1189.3	1184.7	1186.9
22.5°	1185.6	1167.6	1166.1	1159.6	1162.8
25°	1148.7	1129.4	1127.8	1120.9	1124.3
27.5°	1106.0	1086.9	1086.9	1077.3	1080.9
30°	1074.4	1056.3	1058.2	1046.7	1051.2
32.5°	1041.0	1024.6	1025.7	1014.2	1018.7
35°	987.4	973.8	973.5	964.3	967.7
37.5°	932.6	920.6	918.7	913.4	914.3
40°	894.6	884.4	880.6	877.2	877.2
42.5°	854.6	845.3	841.7	839.1	838.2
45°	793.6	786.8	783.2	780.8	779.7
47.5°	733.3	726.9	723.8	722.1	721.0
50°	691.5	687.0	685.7	682.2	681.1
52.5°	649.7	647.0	645.8	641.4	640.2
55°	588.3	587.1	588.3	580.1	579.0
57.5°	524.2	526.0	529.8	518.8	516.1
60°	481.5	486.0	490.8	477.9	473.4
62.5°	437.9	445.1	451.8	437.0	430.7
65°	372.4	383.8	391.0	375.6	363.2
67.5°	309.3	323.4	332.1	315.5	301.4
70°	265.7	281.6	291.2	274.6	258.7
72.5°	227.6	245.3	253.2	237.5	221.6
75°	171.7	187.6	197.2	184.1	167.1
77.5°	121.8	136.8	144.8	133.3	119.3
80°	89.3	105.2	111.4	101.8	90.5
82.5°	63.4	76.5	80.8	75.0	67.3
85°	29.0	38.1	42.9	40.6	38.3
87.5°	7.8	14.8	20.3	19.0	19.9
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)