

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: P563934

Luminaire Tested: **SQ4-PR1-025U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563934  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

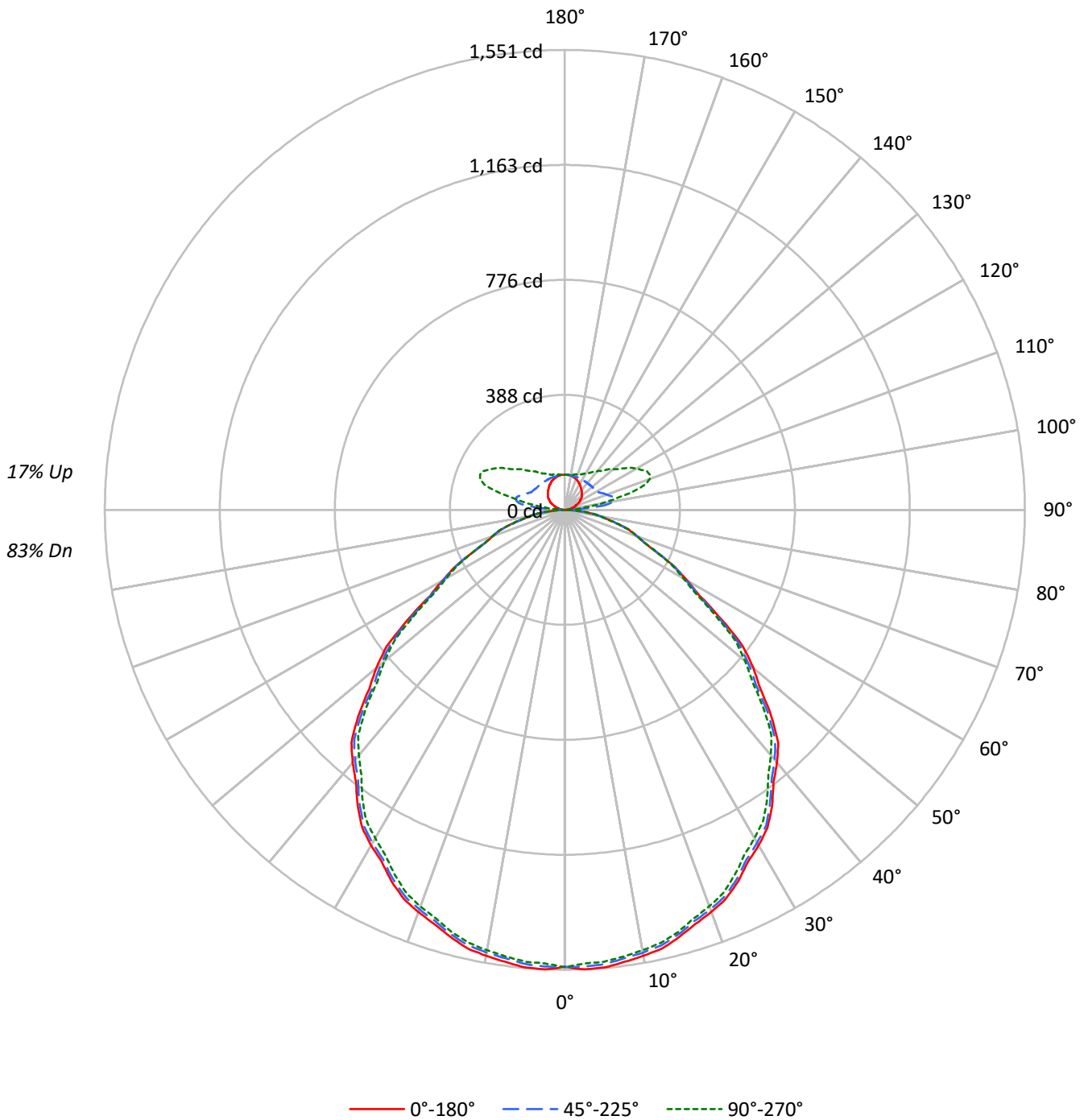
Lumens per Lamp: N/A  
Luminaire Lumens: 4623.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83				
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71				
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60				
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52				
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45				
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39				
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34				
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31				
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27				
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25				
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22				

**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	3.2
10°-20°	417.1	9.0
20°-30°	629.1	13.6
30°-40°	749.6	16.2
40°-50°	739.0	16.0
50°-60°	564.8	12.2
60°-70°	349.5	7.6
70°-80°	198.5	4.3
80°-90°	61.0	1.3
90°-100°	57.8	1.3
100°-110°	151.9	3.3
110°-120°	157.6	3.4
120°-130°	126.4	2.7
130°-140°	99.2	2.1
140°-150°	76.1	1.6
150°-160°	54.8	1.2
160°-170°	33.5	0.7
170°-180°	11.3	0.2
0°-30°	1191.9	25.8
0°-40°	1941.5	42.0
0°-60°	3245.3	70.2
0°-90°	3854.3	83.4
90°-120°	367.3	7.9
90°-150°	669.0	14.5
90°-180°	769.0	16.6
0°-180°	4623.0	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	2	6	3	3	3
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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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	18.4	22.5	21.8	20.8
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)