

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: P564563

Luminaire Tested: **SQ4-PW1-025U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564563  
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-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

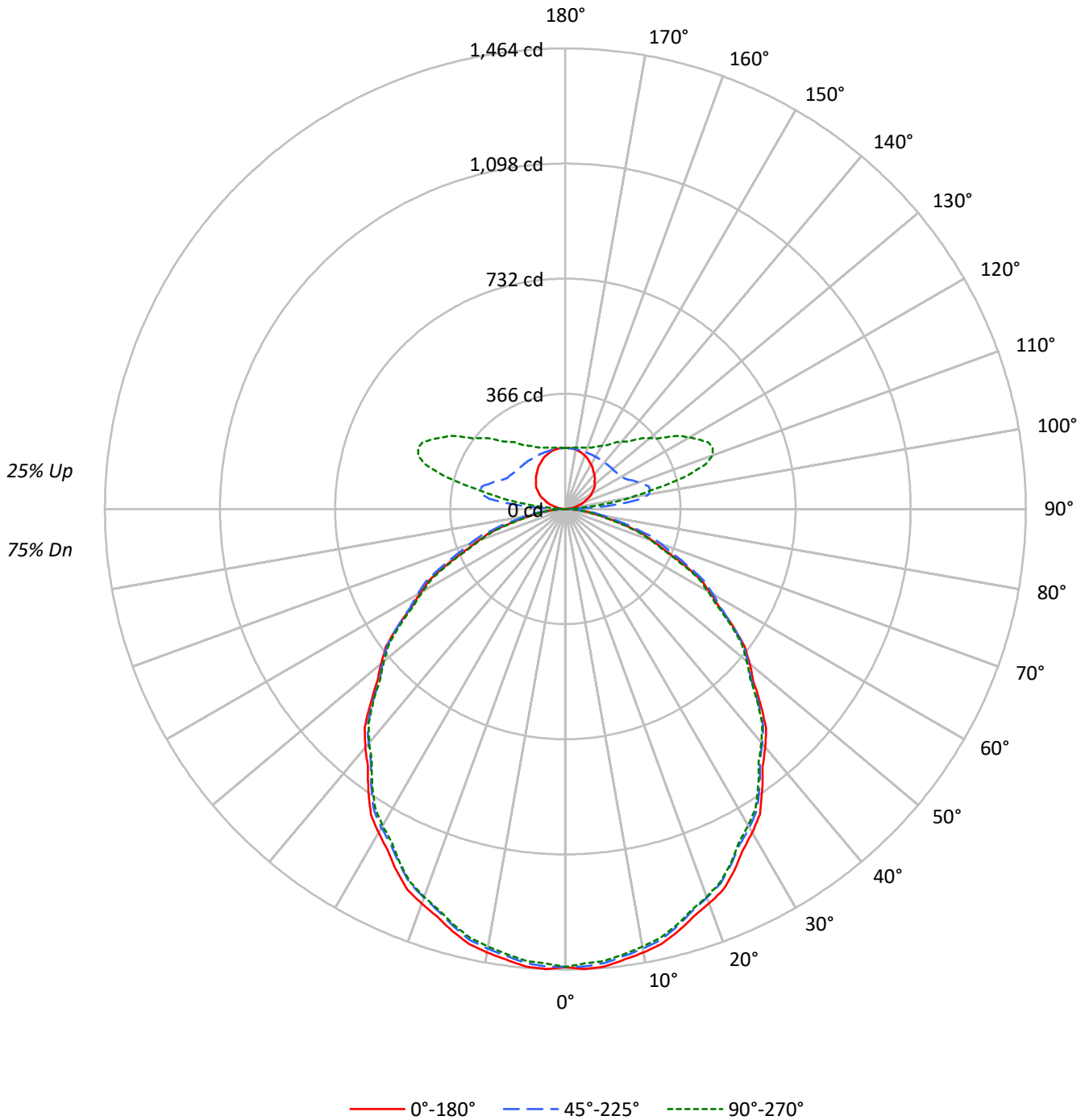
Lumens per Lamp: N/A  
Luminaire Lumens: 4963.7 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

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

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8939	8868	8820
15°	8845	8747	8714
20°	8740	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7530	7497
50°	7315	7253	7204
55°	6974	6974	6863
60°	6548	6674	6437
65°	5992	6290	5842
70°	5282	5789	5143
75°	4511	5181	4389
80°	3500	4360	3542
85°	2265	3352	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	2.8
10°-20°	387.0	7.8
20°-30°	574.1	11.6
30°-40°	671.7	13.5
40°-50°	668.7	13.5
50°-60°	577.5	11.6
60°-70°	415.7	8.4
70°-80°	218.0	4.4
80°-90°	55.1	1.1
90°-100°	94.7	1.9
100°-110°	248.9	5.0
110°-120°	258.1	5.2
120°-130°	207.0	4.2
130°-140°	162.4	3.3
140°-150°	124.6	2.5
150°-160°	89.8	1.8
160°-170°	54.9	1.1
170°-180°	18.6	0.4
0°-30°	1098.1	22.1
0°-40°	1769.9	35.7
0°-60°	3016.0	60.8
0°-90°	3704.8	74.6
90°-120°	601.6	12.1
90°-150°	1095.7	22.1
90°-180°	1259.0	25.4
0°-180°	4963.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1460	1443	1448	1444	1442	138
15°	1389	1372	1374	1371	1368	392
25°	1270	1248	1247	1239	1243	584
35°	1092	1076	1076	1066	1070	682
45°	877	870	866	863	862	677
55°	650	649	650	641	640	580
65°	412	424	432	415	401	408
75°	190	207	218	204	185	203
85°	32	42	48	45	42	42
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1463.9	1451.9	1455.7	1452.5	1445.5
5°	1459.6	1443.3	1448.0	1444.1	1441.6
7.5°	1444.7	1429.6	1433.1	1429.0	1427.5
10°	1431.3	1416.3	1419.8	1414.6	1412.1
12.5°	1416.0	1399.9	1403.4	1398.2	1396.7
15°	1389.0	1371.5	1373.6	1371.0	1368.5
17.5°	1357.7	1339.9	1340.3	1336.2	1335.7
20°	1335.2	1316.3	1314.6	1309.6	1312.1
22.5°	1310.5	1290.7	1289.0	1281.9	1285.4
25°	1269.7	1248.4	1246.7	1239.0	1242.8
27.5°	1222.5	1201.5	1201.5	1190.8	1194.8
30°	1187.7	1167.6	1169.7	1157.0	1162.0
32.5°	1150.7	1132.7	1133.8	1121.1	1126.1
35°	1091.5	1076.4	1076.1	1065.9	1069.7
37.5°	1030.9	1017.6	1015.5	1009.7	1010.7
40°	988.9	977.6	973.5	969.6	969.6
42.5°	944.7	934.5	930.4	927.5	926.5
45°	877.3	869.8	865.7	863.1	861.9
47.5°	810.6	803.6	800.1	798.2	797.0
50°	764.4	759.4	758.0	754.1	752.9
52.5°	718.2	715.2	713.9	709.0	707.7
55°	650.3	649.0	650.3	641.3	640.0
57.5°	579.5	581.5	585.6	573.5	570.5
60°	532.3	537.3	542.5	528.3	523.3
62.5°	484.0	492.1	499.4	483.1	476.1
65°	411.7	424.2	432.2	415.2	401.4
67.5°	341.9	357.5	367.1	348.8	333.2
70°	293.7	311.3	321.9	303.6	286.0
72.5°	251.6	271.2	279.9	262.5	245.0
75°	189.8	207.4	218.0	203.5	184.7
77.5°	134.7	151.2	160.1	147.4	131.8
80°	98.8	116.3	123.1	112.6	100.0
82.5°	70.0	84.6	89.3	82.9	74.4
85°	32.1	42.1	47.5	44.8	42.3
87.5°	8.5	16.0	21.5	20.5	21.5
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)