

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845068

Luminaire Tested: **SQ4P-PP3-025U-100D-B50-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845068  
REPORT IS A COMBINATION OF REPORTS P700173 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-025U-100D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

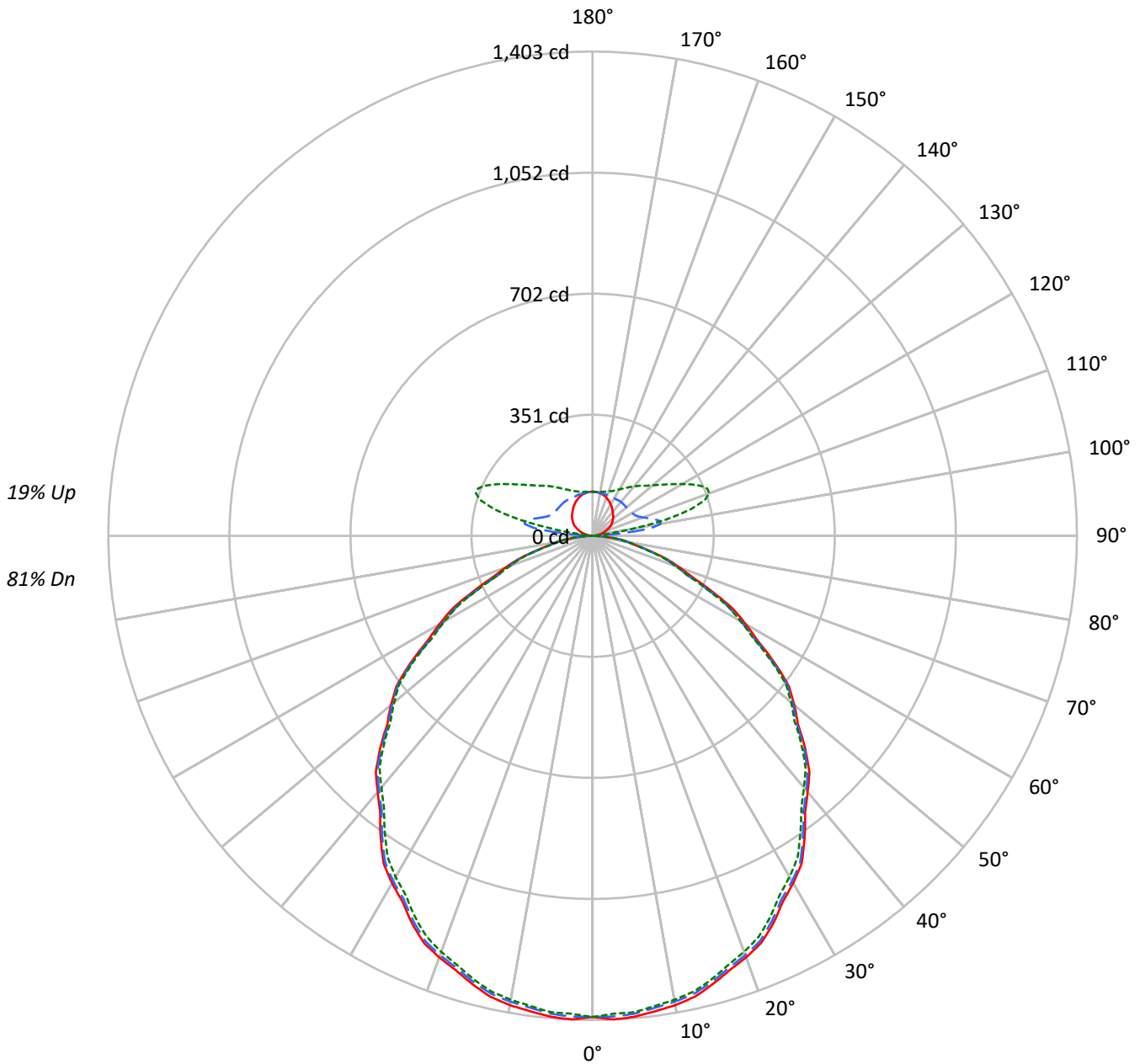
Lumens per Lamp: N/A  
Luminaire Lumens: 4396.5 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

TEST NUMBER: P845068

CATALOG NUMBER: SQ4P-PP3-025U-100D-B50-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845068

CATALOG NUMBER: SQ4P-PP3-025U-100D-B50-1D-UNV

**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	101	101	101	92	92	92	85	85	85	81								
1	105	101	97	93	101	97	93	90	89	86	84	82	80	78	76	74	72	69								
2	96	88	82	77	92	85	79	74	78	74	70	72	69	66	67	64	61	58								
3	88	78	70	64	84	75	68	63	69	64	59	64	60	56	59	56	53	50								
4	80	69	61	55	77	67	59	53	62	56	51	57	52	48	53	49	45	43								
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37								
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33								
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29								
8	59	46	38	32	56	45	37	32	42	35	31	39	33	29	37	32	28	26								
9	55	42	34	29	53	41	34	29	38	32	27	36	30	26	34	29	25	23								
10	52	39	31	26	49	38	31	26	36	29	25	33	28	24	31	27	23	21								

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

	0°	45°	90°
0°	12862	12862	12862
5°	12957	12877	12833
10°	12935	12844	12787
15°	12850	12780	12708
20°	12764	12692	12596
25°	12613	12526	12402
30°	12379	12314	12158
35°	12056	11973	11821
40°	11669	11596	11463
45°	11353	11273	11160
50°	10943	10873	10768
55°	10377	10240	10163
60°	9446	9176	9132
65°	8324	7975	7949
70°	7184	6887	6887
75°	6188	6099	6007
80°	5451	5520	5382
85°	4266	4658	4658



TEST NUMBER: P845068

CATALOG NUMBER: SQ4P-PP3-025U-100D-B50-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	3.0
10°-20°	376.4	8.6
20°-30°	563.8	12.8
30°-40°	661.3	15.0
40°-50°	663.4	15.1
50°-60°	565.9	12.9
60°-70°	369.1	8.4
70°-80°	185.2	4.2
80°-90°	51.6	1.2
90°-100°	50.8	1.2
100°-110°	176.7	4.0
110°-120°	171.2	3.9
120°-130°	134.2	3.1
130°-140°	106.3	2.4
140°-150°	82.0	1.9
150°-160°	58.8	1.3
160°-170°	36.0	0.8
170°-180°	12.2	0.3
0°-30°	1072.1	24.4
0°-40°	1733.4	39.4
0°-60°	2962.7	67.4
0°-90°	3568.5	81.2
90°-120°	398.6	9.1
90°-150°	721.1	16.4
90°-180°	828.0	18.8
0°-180°	4396.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1399	1386	1390	1386	1386	133
15°	1345	1332	1338	1333	1330	380
25°	1239	1225	1230	1219	1218	570
35°	1070	1060	1063	1051	1050	669
45°	870	864	864	855	855	670
55°	645	643	637	633	632	573
65°	381	374	365	363	364	380
75°	174	174	171	170	168	188
85°	40	44	44	44	44	47
90°	2	3	3	2	1	3
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



TEST NUMBER: P845068

CATALOG NUMBER: SQ4P-PP3-025U-100D-B50-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1402.8	1391.5	1394.1	1392.1	1386.4
5°	1399.0	1386.0	1390.4	1385.6	1385.6
7.5°	1389.6	1375.2	1379.7	1374.8	1374.6
10°	1380.7	1366.3	1371.0	1366.0	1364.9
12.5°	1368.1	1353.8	1359.2	1353.3	1353.1
15°	1345.3	1332.1	1338.0	1332.9	1330.5
17.5°	1319.6	1305.3	1312.3	1305.5	1304.5
20°	1300.0	1285.7	1292.7	1282.9	1282.9
22.5°	1276.7	1262.3	1270.3	1257.4	1257.4
25°	1239.0	1224.6	1230.5	1219.4	1218.3
27.5°	1194.2	1180.1	1186.2	1173.7	1173.4
30°	1162.0	1148.8	1155.9	1142.4	1141.2
32.5°	1126.8	1114.6	1119.7	1106.3	1104.9
35°	1070.4	1059.6	1063.0	1050.8	1049.5
37.5°	1011.0	1000.0	1003.8	993.2	992.9
40°	968.9	961.7	962.8	954.1	951.8
42.5°	929.8	921.7	922.7	914.0	913.7
45°	870.1	864.0	864.0	855.3	855.3
47.5°	806.5	801.8	800.6	793.3	793.1
50°	762.4	758.9	757.5	751.4	750.2
52.5°	716.5	714.8	710.6	705.5	705.4
55°	645.1	642.7	636.6	632.8	631.8
57.5°	567.8	562.9	556.0	550.7	551.5
60°	511.9	507.0	497.3	494.9	494.9
62.5°	458.2	452.5	442.6	439.3	441.2
65°	381.3	374.1	365.3	363.0	364.1
67.5°	311.4	304.8	295.3	295.3	294.6
70°	266.3	262.7	255.3	255.3	255.3
72.5°	226.3	224.6	219.3	219.1	218.2
75°	173.6	173.6	171.1	169.8	168.5
77.5°	130.0	130.4	129.4	128.0	125.8
80°	102.6	105.1	103.9	102.6	101.3
82.5°	77.3	79.6	79.4	77.3	76.9
85°	40.3	43.8	44.0	44.0	44.0
87.5°	10.8	14.6	15.6	15.6	16.7
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



TEST NUMBER: P845068

CATALOG NUMBER: SQ4P-PP3-025U-100D-B50-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)