

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: P845116

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845116
REPORT IS A COMBINATION OF REPORTS P700089 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-100D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

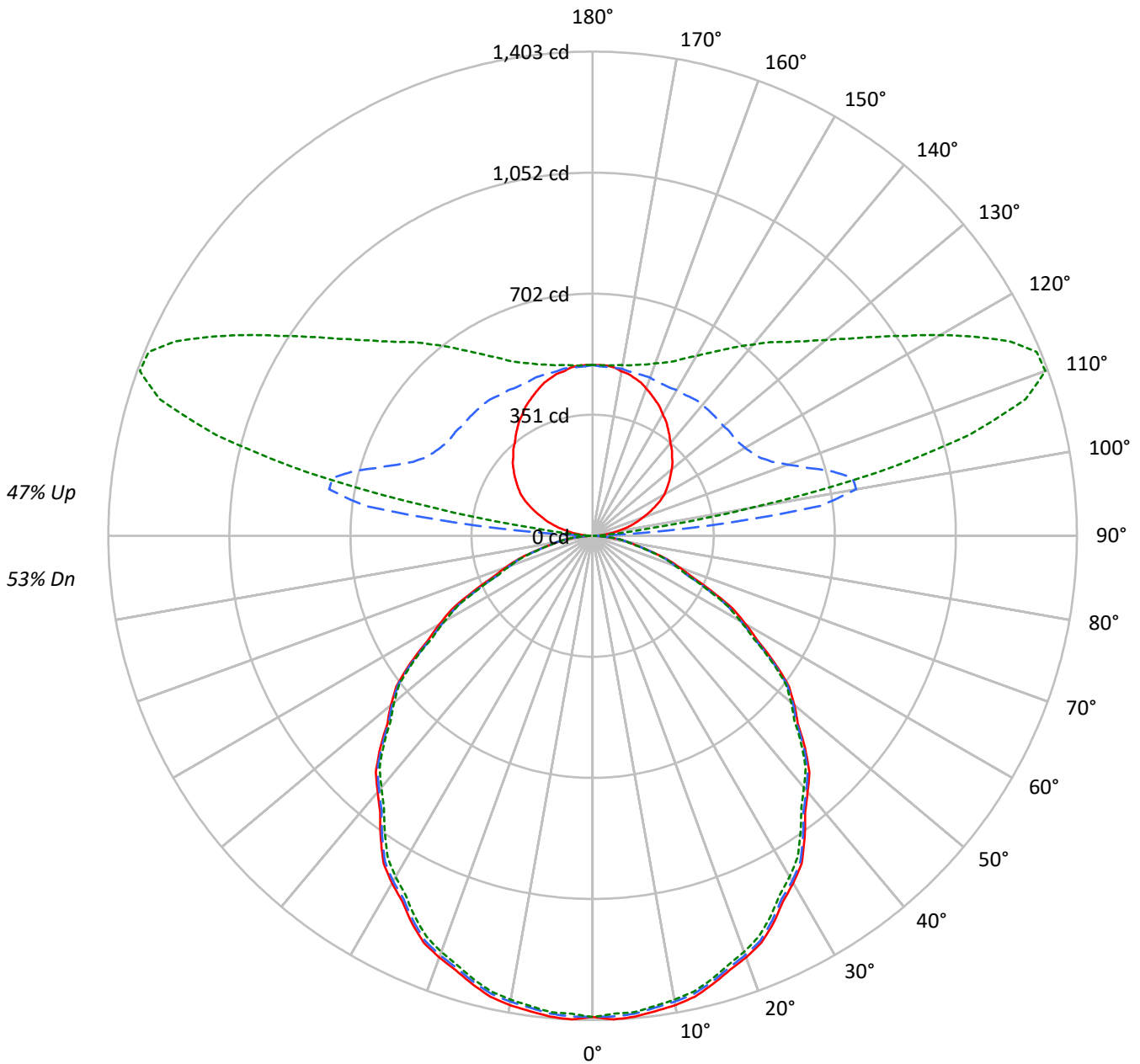
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6780.7 lumens
Efficiency: N/A
Efficacy: 111.3 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: General Diffuse

Input Watts (W): 60.9
Input Voltage (V): NR
Input Current (A_{in}): 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

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53								
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45								
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38								
3	82	73	65	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32								
4	75	64	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28								
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24								
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21								
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19								
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17								
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15								
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14								

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.9
10°-20°	376.4	5.6
20°-30°	563.8	8.3
30°-40°	661.3	9.8
40°-50°	663.4	9.8
50°-60°	565.9	8.3
60°-70°	369.1	5.4
70°-80°	185.2	2.7
80°-90°	52.4	0.8
90°-100°	196.9	2.9
100°-110°	685.2	10.1
110°-120°	663.7	9.8
120°-130°	520.7	7.7
130°-140°	412.1	6.1
140°-150°	318.0	4.7
150°-160°	228.0	3.4
160°-170°	139.4	2.1
170°-180°	47.2	0.7
0°-30°	1072.1	15.8
0°-40°	1733.4	25.6
0°-60°	2962.7	43.7
0°-90°	3569.4	52.6
90°-120°	1545.9	22.8
90°-150°	2796.7	41.2
90°-180°	3211.0	47.4
0°-180°	6780.7	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°	7	11	11	7	4	6
95°	33	114	332	85	52	35
105°	114	162	720	1215	1130	120
115°	199	240	535	1130	1333	197
125°	270	332	498	842	1004	241
135°	325	366	495	702	794	252
145°	380	406	491	606	657	238
155°	432	447	484	539	558	199
165°	473	476	487	510	513	133
175°	495	495	491	498	495	47
180°	495	495	495	495	495	



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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°	7.4	11.0	11.0	7.4	3.7
92.5°	18.5	55.4	51.7	22.2	18.5
95°	33.2	114.4	332.4	84.9	51.7
97.5°	51.7	129.3	664.7	302.8	162.5
100°	70.2	136.6	775.4	727.4	469.0
102.5°	92.3	147.7	771.7	1022.9	841.9
105°	114.4	162.5	720.0	1214.9	1130.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.3	217.8	561.3	1222.2	1392.1
115°	199.4	240.0	535.4	1130.0	1333.0
117.5°	221.5	265.9	520.7	1045.0	1248.1
120°	240.0	288.0	509.6	963.7	1163.2
122.5°	254.8	310.2	502.2	897.3	1078.3
125°	269.5	332.4	498.5	841.9	1004.4
127.5°	284.4	347.1	498.5	801.3	937.9
130°	299.1	354.5	494.8	760.7	882.5
132.5°	313.9	358.2	494.8	731.2	834.5
135°	324.9	365.6	494.8	701.6	793.9
137.5°	339.7	372.9	494.8	675.7	760.7
140°	350.8	384.0	494.8	649.9	723.7
142.5°	365.6	395.1	494.8	624.1	690.5
145°	380.3	406.2	491.1	605.6	657.3
147.5°	395.1	417.3	487.4	587.1	627.8
150°	406.2	428.3	487.4	568.6	601.9
152.5°	421.0	439.5	483.7	550.2	579.8
155°	432.0	446.8	483.7	539.1	557.6
157.5°	443.1	457.9	483.7	528.1	542.8
160°	454.2	465.3	487.4	520.7	531.7
162.5°	465.3	472.7	487.4	513.2	520.7
165°	472.7	476.4	487.4	509.6	513.2
167.5°	480.0	483.7	487.4	505.9	505.9
170°	483.7	487.4	491.1	502.2	502.2
172.5°	491.1	491.1	491.1	498.5	498.5
175°	494.8	494.8	491.1	498.5	494.8
177.5°	494.8	494.8	491.1	498.5	494.8
180°	494.8	494.8	494.8	494.8	494.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	136.6	181.0	653.6	1299.8	1314.6
110°	155.1	199.4	601.9	1288.8	1395.8



(END OF REPORT)