

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: P845113

Luminaire Tested: **SQ4P-PP3-100U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845113
REPORT IS A COMBINATION OF REPORTS P700088 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-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

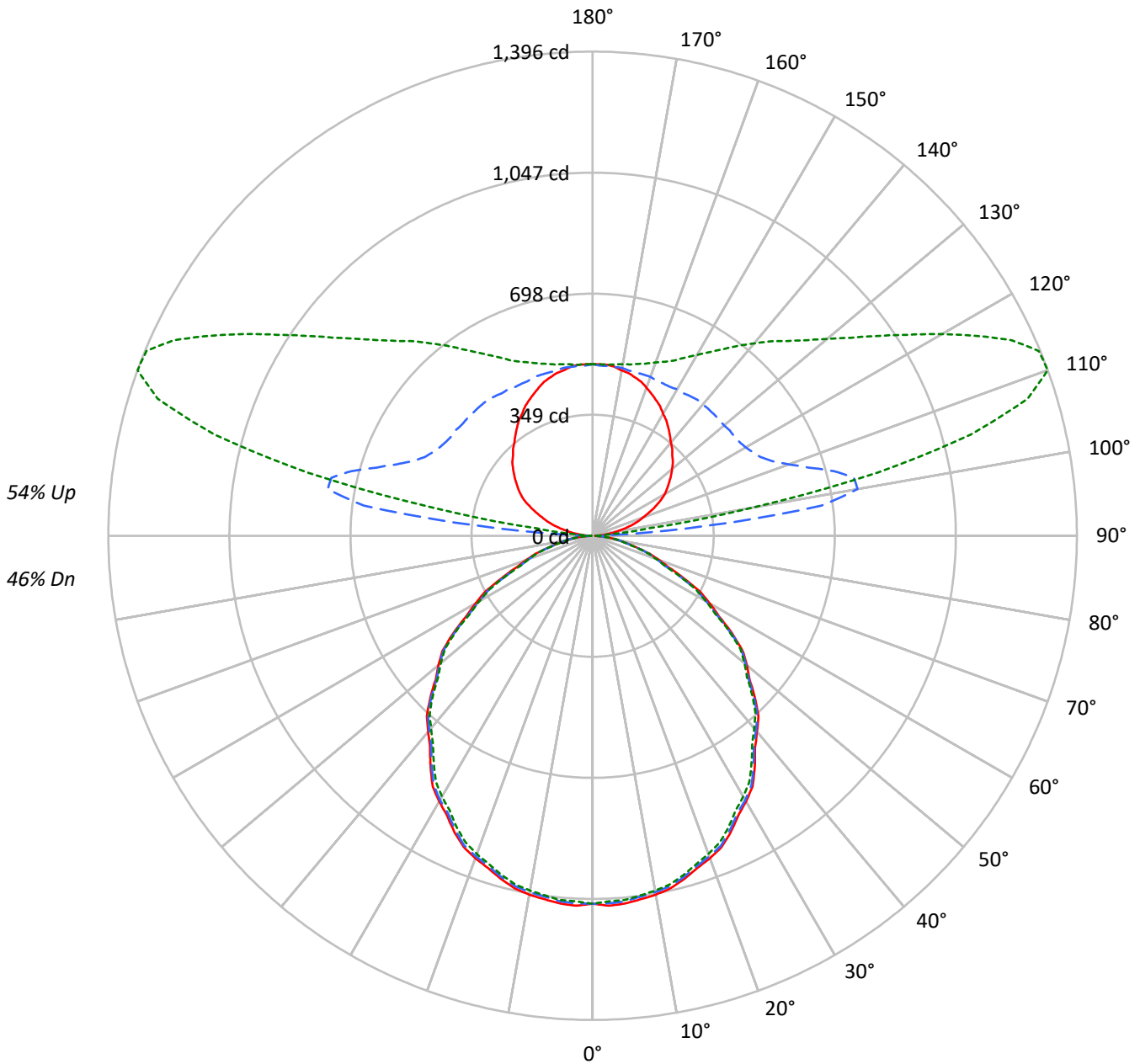
Lumens per Lamp: N/A
Luminaire Lumens: 5927.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.6
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46			46
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	47	45	45	39			39
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38	33			33
3	81	71	64	59	74	66	60	55	55	51	47	46	42	39	37	34	32	28			28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24			24
5	68	56	48	42	62	52	45	40	44	39	35	37	33	29	29	27	24	21			21
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18			18
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16			16
8	54	41	34	28	49	38	32	27	33	27	24	27	23	20	22	19	17	15			15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13			13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9788	9788	9788
5°	9860	9799	9764
10°	9844	9773	9730
15°	9778	9725	9671
20°	9712	9657	9585
25°	9598	9532	9438
30°	9420	9371	9250
35°	9174	9111	8996
40°	8879	8823	8723
45°	8638	8578	8492
50°	8328	8275	8193
55°	7896	7793	7734
60°	7189	6984	6947
65°	6335	6069	6047
70°	5465	5241	5241
75°	4705	4638	4570
80°	4150	4197	4096
85°	3250	3546	3546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.7
10°-20°	286.4	4.8
20°-30°	429.0	7.2
30°-40°	503.2	8.5
40°-50°	504.8	8.5
50°-60°	430.7	7.3
60°-70°	280.9	4.7
70°-80°	140.9	2.4
80°-90°	40.2	0.7
90°-100°	196.9	3.3
100°-110°	685.2	11.6
110°-120°	663.7	11.2
120°-130°	520.7	8.8
130°-140°	412.1	7.0
140°-150°	318.0	5.4
150°-160°	228.0	3.8
160°-170°	139.4	2.4
170°-180°	47.2	0.8
0°-30°	815.8	13.8
0°-40°	1319.0	22.3
0°-60°	2254.5	38.0
0°-90°	2716.4	45.8
90°-120°	1545.9	26.1
90°-150°	2796.7	47.2
90°-180°	3211.0	54.2
0°-180°	5927.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1065	1055	1058	1054	1054	101
15°	1024	1014	1018	1014	1012	289
25°	943	932	936	928	927	434
35°	814	806	809	800	799	509
45°	662	657	657	651	651	510
55°	491	489	484	482	481	436
65°	290	285	278	276	277	290
75°	132	132	130	129	128	143
85°	31	33	34	34	34	36
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°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1067.5	1058.8	1060.9	1059.3	1054.9
5°	1064.6	1054.7	1058.0	1054.3	1054.3
7.5°	1057.3	1046.5	1049.8	1046.2	1046.0
10°	1050.7	1039.7	1043.2	1039.4	1038.6
12.5°	1041.0	1030.1	1034.3	1029.8	1029.6
15°	1023.7	1013.6	1018.1	1014.3	1012.5
17.5°	1004.1	993.2	998.6	993.4	992.6
20°	989.2	978.3	983.6	976.2	976.2
22.5°	971.4	960.5	966.6	956.9	956.9
25°	942.8	931.8	936.3	927.8	927.1
27.5°	908.8	898.0	902.7	893.1	892.9
30°	884.2	874.1	879.6	869.3	868.3
32.5°	857.5	848.2	852.1	841.8	840.8
35°	814.5	806.4	808.9	799.6	798.7
37.5°	769.3	761.0	763.8	755.8	755.5
40°	737.2	731.8	732.6	726.0	724.3
42.5°	707.5	701.4	702.1	695.5	695.3
45°	662.0	657.4	657.4	650.8	650.8
47.5°	613.7	610.2	609.2	603.7	603.6
50°	580.2	577.4	576.5	571.8	570.8
52.5°	545.2	543.9	540.8	536.8	536.7
55°	490.9	489.1	484.5	481.5	480.8
57.5°	432.0	428.3	423.1	419.1	419.7
60°	389.6	385.9	378.5	376.5	376.5
62.5°	348.6	344.3	336.8	334.3	335.7
65°	290.2	284.7	278.0	276.2	277.0
67.5°	237.0	231.9	224.8	224.8	224.1
70°	202.6	199.9	194.3	194.3	194.3
72.5°	172.1	170.9	166.9	166.7	166.0
75°	132.0	132.0	130.1	129.2	128.2
77.5°	98.9	99.2	98.4	97.5	95.7
80°	78.1	80.0	79.0	78.1	77.1
82.5°	58.8	60.5	60.5	58.8	58.5
85°	30.7	33.3	33.5	33.5	33.5
87.5°	8.2	11.0	11.9	11.9	12.7
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)