

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: P845110

Luminaire Tested: **SQ4P-PP3-100U-050D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845110
REPORT IS A COMBINATION OF REPORTS P700087 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-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

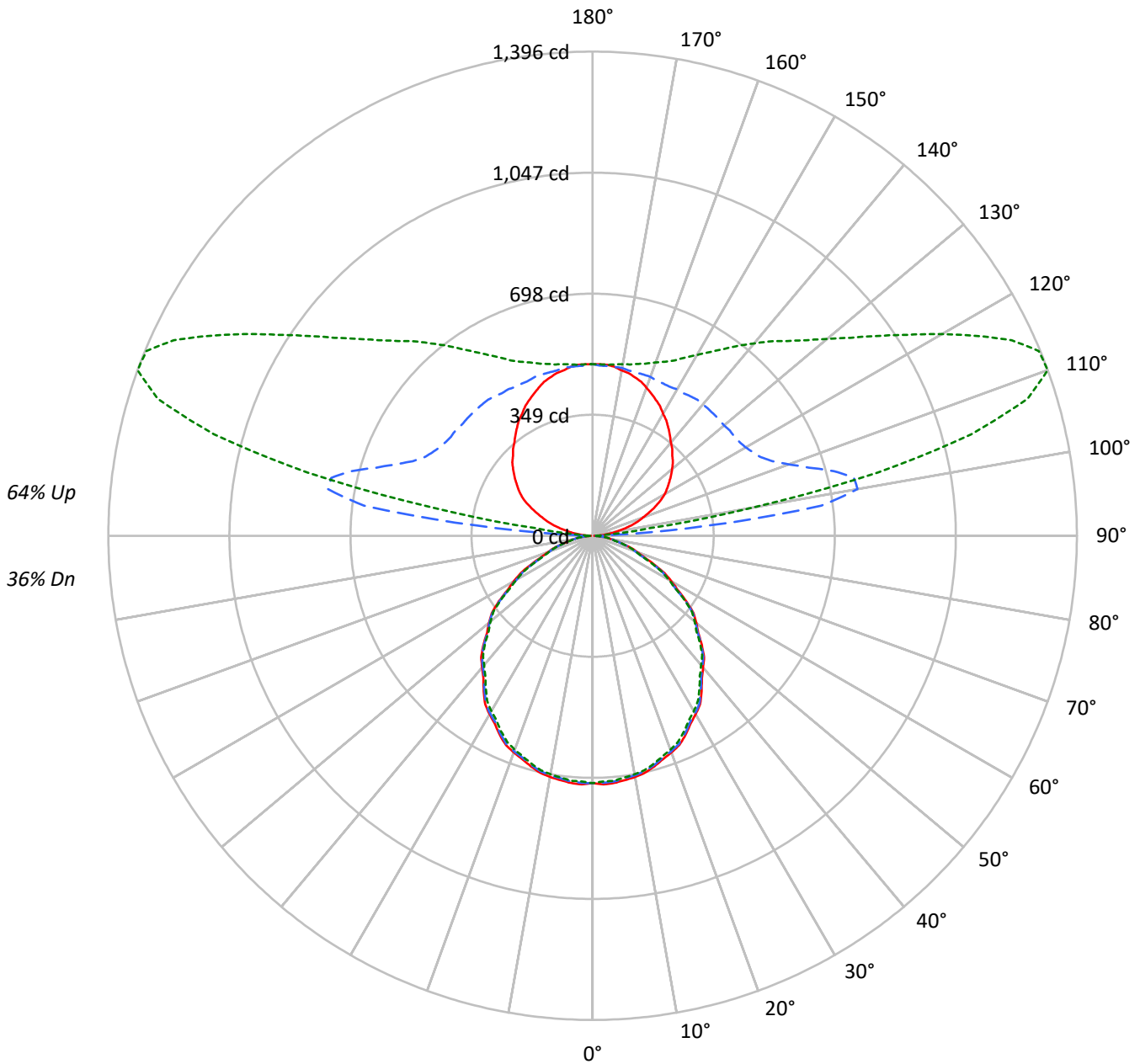
Lumens per Lamp: N/A
Luminaire Lumens: 5037.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 42.8
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									
RC	80									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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36																			
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	39	38	37	31																			
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26																			
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	30	28	27	22																			
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19																			
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17																			
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15																			
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13																			
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12																			
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	10																			
10	45	33	26	22	41	31	24	20	25	21	17	21	17	14	16	13	12	9																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6579	6579	6579
5°	6627	6587	6564
10°	6616	6570	6540
15°	6573	6536	6500
20°	6528	6492	6443
25°	6451	6407	6343
30°	6331	6298	6218
35°	6167	6124	6046
40°	5968	5930	5863
45°	5806	5765	5708
50°	5596	5562	5507
55°	5308	5237	5197
60°	4831	4694	4670
65°	4259	4080	4065
70°	3674	3523	3523
75°	3165	3119	3073
80°	2789	2821	2752
85°	2181	2392	2392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.3
10°-20°	192.5	3.8
20°-30°	288.4	5.7
30°-40°	338.2	6.7
40°-50°	339.3	6.7
50°-60°	289.5	5.7
60°-70°	188.8	3.7
70°-80°	94.7	1.9
80°-90°	27.4	0.5
90°-100°	196.9	3.9
100°-110°	685.2	13.6
110°-120°	663.7	13.2
120°-130°	520.7	10.3
130°-140°	412.1	8.2
140°-150°	318.0	6.3
150°-160°	228.0	4.5
160°-170°	139.4	2.8
170°-180°	47.2	0.9
0°-30°	548.3	10.9
0°-40°	886.6	17.6
0°-60°	1515.3	30.1
0°-90°	1826.3	36.3
90°-120°	1545.9	30.7
90°-150°	2796.7	55.5
90°-180°	3211.0	63.7
0°-180°	5037.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	716	709	711	709	709	68
15°	688	681	684	682	680	194
25°	634	626	629	624	623	291
35°	548	542	544	537	537	342
45°	445	442	442	438	438	343
55°	330	329	326	324	323	293
65°	195	191	187	186	186	195
75°	89	89	88	87	86	96
85°	21	22	23	23	23	24
90°	7	11	11	7	4	5
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°	713.1	713.1	713.1	713.1	713.1
2.5°	717.5	711.7	713.1	712.0	709.1
5°	715.5	708.9	711.2	708.7	708.7
7.5°	710.7	703.4	705.6	703.2	703.1
10°	706.2	698.9	701.3	698.7	698.1
12.5°	699.7	692.4	695.2	692.2	692.1
15°	688.1	681.3	684.3	681.7	680.5
17.5°	675.0	667.7	671.2	667.8	667.2
20°	664.9	657.6	661.2	656.2	656.2
22.5°	653.0	645.7	649.8	643.2	643.2
25°	633.7	626.3	629.4	623.7	623.1
27.5°	610.8	603.6	606.7	600.3	600.2
30°	594.3	587.6	591.2	584.4	583.7
32.5°	576.4	570.1	572.7	565.8	565.1
35°	547.5	542.0	543.7	537.4	536.8
37.5°	517.0	511.5	513.4	508.0	507.8
40°	495.5	491.9	492.4	488.0	486.8
42.5°	475.6	471.4	471.9	467.5	467.3
45°	445.0	441.8	441.8	437.5	437.5
47.5°	412.5	410.1	409.5	405.8	405.7
50°	389.9	388.1	387.5	384.3	383.7
52.5°	366.4	365.6	363.5	360.8	360.7
55°	330.0	328.7	325.6	323.7	323.1
57.5°	290.4	287.9	284.4	281.7	282.1
60°	261.8	259.3	254.4	253.1	253.1
62.5°	234.4	231.4	226.4	224.7	225.6
65°	195.1	191.4	186.9	185.6	186.2
67.5°	159.3	155.9	151.1	151.1	150.6
70°	136.2	134.3	130.6	130.6	130.6
72.5°	115.8	114.8	112.1	112.1	111.7
75°	88.8	88.8	87.5	86.8	86.2
77.5°	66.5	66.7	66.2	65.5	64.4
80°	52.5	53.8	53.1	52.5	51.8
82.5°	39.5	40.7	40.7	39.5	39.3
85°	20.6	22.4	22.6	22.6	22.6
87.5°	5.5	7.4	8.0	8.0	8.5
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)