

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: P844990

Luminaire Tested: **SQ4P-PC3-050U-050D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844990
REPORT IS A COMBINATION OF REPORTS P700195 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-050U-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

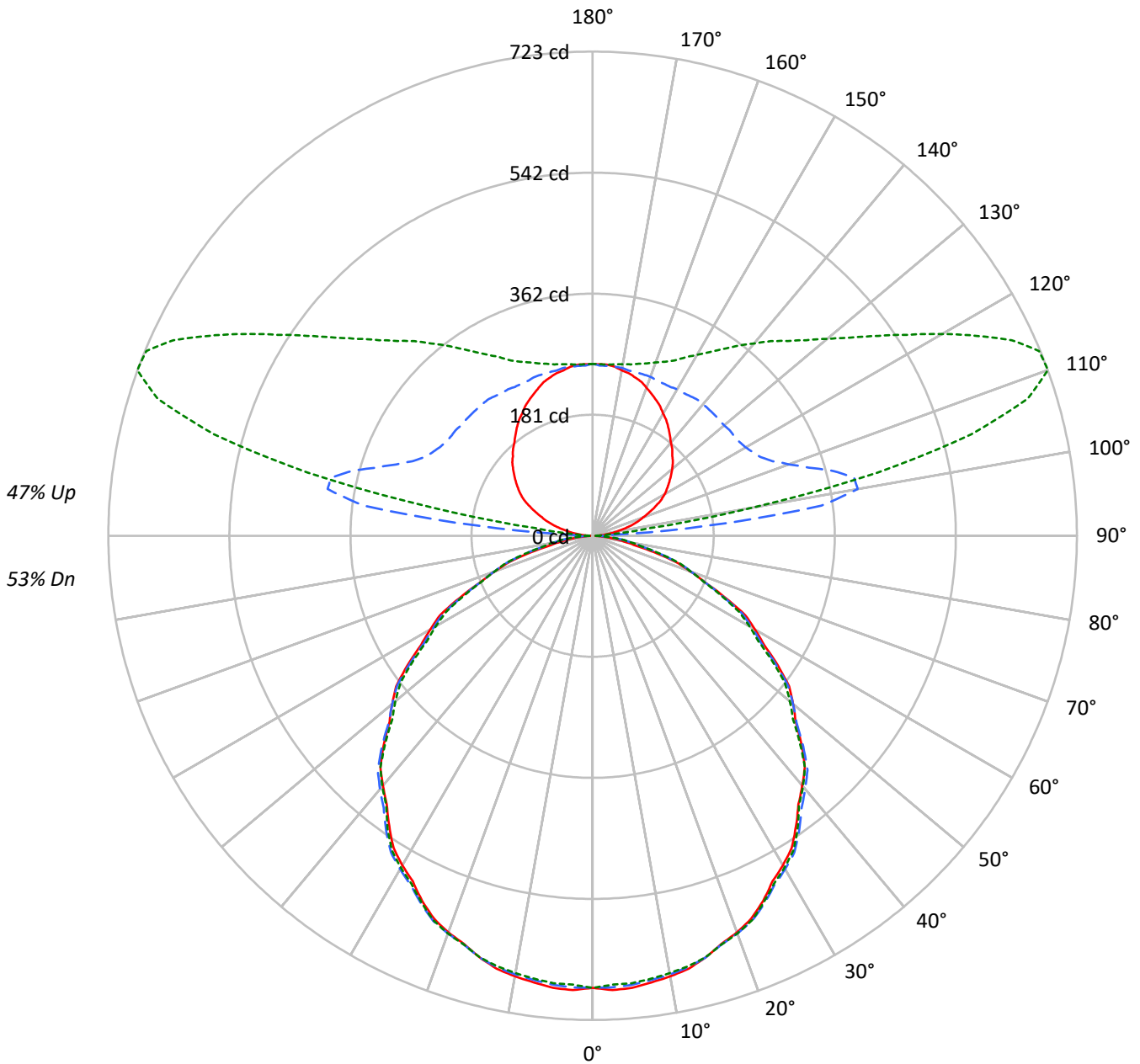
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3506.6 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29.8
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53																			
1	98	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	50	44																			
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	37																			
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	40	38	35	31																			
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31	27																			
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27	23																			
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	20																			
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18																			
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16																			
9	50	38	31	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6227	6227	6227
5°	6276	6234	6211
10°	6259	6230	6212
15°	6227	6227	6221
20°	6187	6204	6204
25°	6127	6171	6152
30°	6052	6125	6099
35°	5963	6054	6011
40°	5864	5946	5887
45°	5758	5798	5708
50°	5606	5606	5517
55°	5429	5358	5279
60°	5167	5063	4982
65°	4774	4681	4639
70°	4181	4214	4200
75°	3362	3722	3743
80°	2391	3156	3188
85°	1461	2646	2646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.8
10°-20°	183.3	5.2
20°-30°	277.6	7.9
30°-40°	332.8	9.5
40°-50°	339.4	9.7
50°-60°	296.3	8.4
60°-70°	212.1	6.0
70°-80°	109.2	3.1
80°-90°	28.2	0.8
90°-100°	102.0	2.9
100°-110°	355.0	10.1
110°-120°	343.9	9.8
120°-130°	269.8	7.7
130°-140°	213.5	6.1
140°-150°	164.8	4.7
150°-160°	118.1	3.4
160°-170°	72.3	2.1
170°-180°	24.4	0.7
0°-30°	524.8	15.0
0°-40°	857.6	24.5
0°-60°	1493.2	42.6
0°-90°	1842.8	52.6
90°-120°	800.9	22.8
90°-150°	1449.0	41.3
90°-180°	1664.0	47.5
0°-180°	3506.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	678	671	673	671	671	64
15°	652	646	652	652	651	184
25°	602	598	606	604	604	277
35°	529	528	538	534	534	331
45°	441	440	444	439	438	340
55°	338	333	333	328	328	301
65°	219	214	214	212	212	216
75°	94	99	104	105	105	102
85°	14	21	25	26	25	19
90°	4	6	6	4	2	3
95°	17	59	172	44	27	18
105°	59	84	373	629	585	62
115°	103	124	277	585	691	102
125°	140	172	258	436	520	125
135°	168	189	256	364	411	130
145°	197	210	254	314	340	123
155°	224	232	251	279	289	103
165°	245	247	253	264	266	69
175°	256	256	254	258	256	24
180°	256	256	256	256	256	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.9	674.9	674.9	674.9	674.9
2.5°	679.0	673.1	674.9	673.5	671.0
5°	677.6	670.7	673.1	671.2	670.6
7.5°	672.6	665.8	669.0	667.8	667.1
10°	668.1	661.4	665.0	663.8	663.1
12.5°	662.1	655.8	659.9	658.8	658.5
15°	651.9	646.4	651.9	651.9	651.3
17.5°	639.0	634.0	639.9	640.2	639.9
20°	630.1	624.5	631.9	631.2	631.9
22.5°	619.0	614.5	622.3	620.7	621.4
25°	601.9	597.6	606.2	604.3	604.3
27.5°	581.7	578.5	588.0	586.0	586.0
30°	568.1	565.0	574.9	572.5	572.5
32.5°	553.1	551.0	560.6	557.5	557.5
35°	529.4	528.1	537.5	533.7	533.7
37.5°	504.9	503.7	512.3	507.7	506.2
40°	486.9	486.3	493.7	488.8	488.8
42.5°	468.9	468.2	474.8	468.8	468.8
45°	441.3	439.9	444.4	438.7	437.5
47.5°	411.1	409.9	412.6	406.5	405.8
50°	390.6	389.4	390.6	384.9	384.4
52.5°	369.7	367.4	367.6	362.0	361.9
55°	337.5	333.2	333.1	328.2	328.2
57.5°	303.5	297.9	298.5	294.1	293.4
60°	280.0	273.9	274.4	270.7	270.0
62.5°	257.0	249.9	251.3	247.1	247.1
65°	218.7	213.8	214.4	212.5	212.5
67.5°	181.9	177.5	180.8	179.3	179.2
70°	155.0	151.9	156.2	156.2	155.7
72.5°	130.0	130.0	135.2	135.2	135.7
75°	94.3	98.7	104.4	105.0	105.0
77.5°	63.0	70.5	76.9	77.1	77.0
80°	45.0	53.5	59.4	60.6	60.0
82.5°	30.5	39.5	44.4	45.6	45.0
85°	13.8	21.1	25.0	25.6	25.0
87.5°	4.0	8.4	10.0	10.0	9.0
90°	3.8	5.7	5.7	3.8	1.9
92.5°	9.5	28.7	26.8	11.5	9.5
95°	17.2	59.3	172.2	44.0	26.8
97.5°	26.8	66.9	344.3	156.9	84.2
100°	36.4	70.8	401.8	376.9	243.0
102.5°	47.8	76.5	399.9	529.9	436.2
105°	59.3	84.2	373.1	629.4	585.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.9	112.9	290.8	633.3	721.3
115°	103.3	124.3	277.4	585.4	690.6
117.5°	114.8	137.8	269.7	541.4	646.6
120°	124.3	149.2	264.0	499.3	602.6
122.5°	132.0	160.7	260.2	464.9	558.6
125°	139.7	172.2	258.3	436.2	520.4
127.5°	147.3	179.8	258.3	415.2	485.9
130°	155.0	183.6	256.4	394.1	457.3
132.5°	162.6	185.5	256.4	378.8	432.4
135°	168.3	189.4	256.4	363.5	411.4
137.5°	176.0	193.3	256.4	350.1	394.1
140°	181.7	199.0	256.4	336.7	375.0
142.5°	189.4	204.7	256.4	323.3	357.8
145°	197.1	210.5	254.5	313.8	340.5
147.5°	204.7	216.2	252.6	304.2	325.2
150°	210.5	221.9	252.6	294.7	311.9
152.5°	218.1	227.6	250.7	285.0	300.4
155°	223.8	231.5	250.7	279.3	288.8
157.5°	229.5	237.2	250.7	273.6	281.2
160°	235.3	241.1	252.6	269.7	275.5
162.5°	241.1	244.9	252.6	265.9	269.7
165°	244.9	246.8	252.6	264.0	265.9
167.5°	248.7	250.7	252.6	262.1	262.1
170°	250.7	252.6	254.5	260.2	260.2
172.5°	254.5	254.5	254.5	258.3	258.3
175°	256.4	256.4	254.5	258.3	256.4
177.5°	256.4	256.4	254.5	258.3	256.4
180°	256.4	256.4	256.4	256.4	256.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	70.8	93.8	338.6	673.5	681.1
110°	80.4	103.3	311.9	667.7	723.2



(END OF REPORT)