

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: P845002

Luminaire Tested: **SQ4P-PC3-075U-050D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845002  
REPORT IS A COMBINATION OF REPORTS P700223 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-075U-050D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

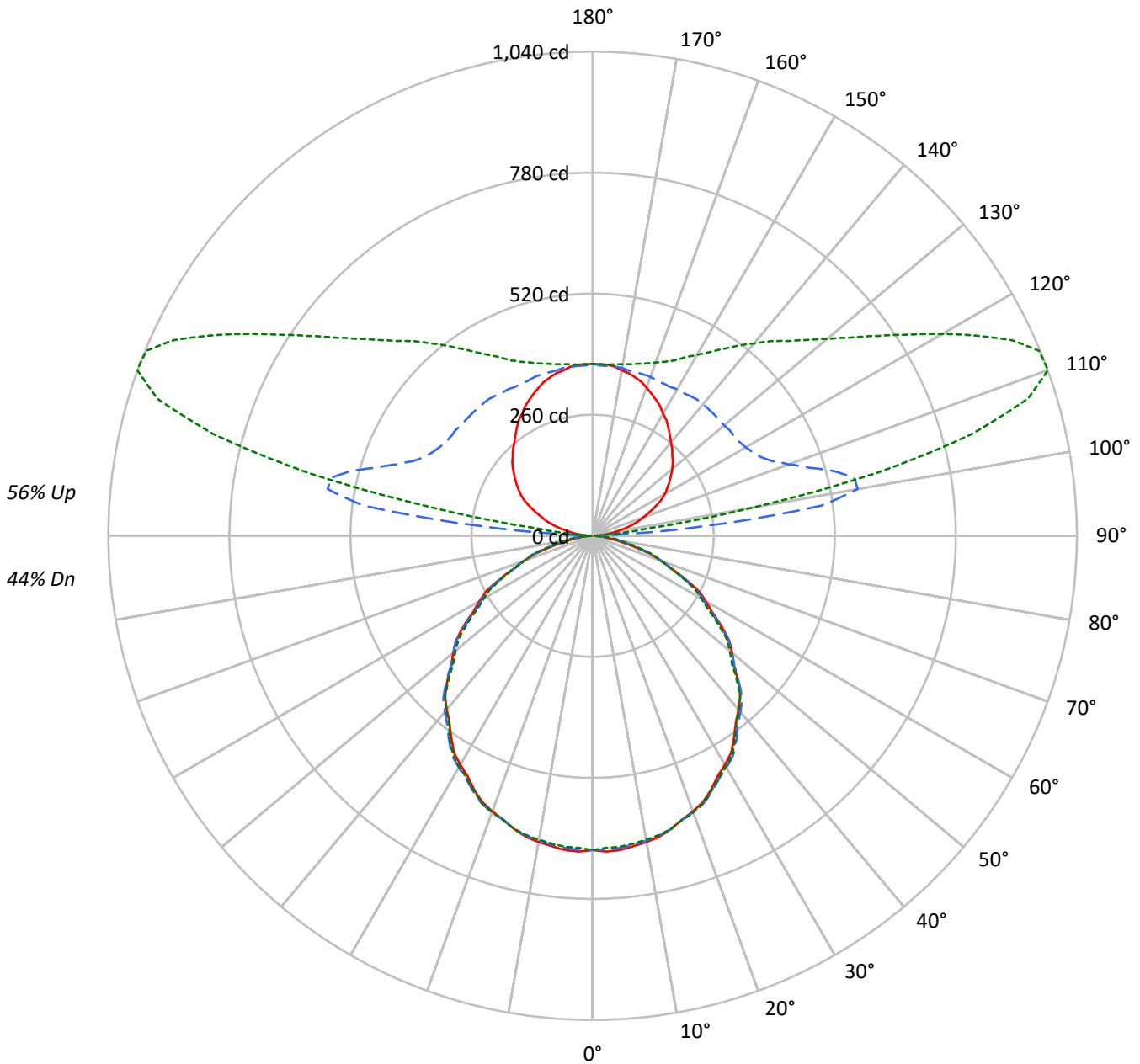
Lumens per Lamp: N/A  
Luminaire Lumens: 4236.8 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.8  
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

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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	80	80	80	64	64	64	50	50	50	44				44				
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42				37					
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36				31					
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30				26					
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26				22					
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23				19					
6	62	50	42	36	56	46	39	34	38	33	29	32	28	24	25	22	20				17					
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18				15					
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16				13					
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14				12					
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13				11					

**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	1.5
10°-20°	183.3	4.3
20°-30°	277.6	6.6
30°-40°	332.8	7.9
40°-50°	339.4	8.0
50°-60°	296.3	7.0
60°-70°	212.1	5.0
70°-80°	109.2	2.6
80°-90°	28.5	0.7
90°-100°	146.8	3.5
100°-110°	510.8	12.1
110°-120°	494.8	11.7
120°-130°	388.1	9.2
130°-140°	307.2	7.3
140°-150°	237.1	5.6
150°-160°	169.9	4.0
160°-170°	103.9	2.5
170°-180°	35.2	0.8
0°-30°	524.8	12.4
0°-40°	857.6	20.2
0°-60°	1493.2	35.2
0°-90°	1843.1	43.5
90°-120°	1152.3	27.2
90°-150°	2084.7	49.2
90°-180°	2394.0	56.5
0°-180°	4236.8	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°	6	8	8	6	3	4
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	



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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°	5.5	8.3	8.3	5.5	2.8
92.5°	13.8	41.3	38.6	16.5	13.8
95°	24.8	85.3	247.7	63.3	38.6
97.5°	38.6	96.3	495.4	225.7	121.1
100°	52.3	101.9	578.0	542.3	349.6
102.5°	68.8	110.1	575.3	762.5	627.6
105°	85.3	121.1	536.8	905.6	842.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	132.1	162.4	418.4	911.1	1037.7
115°	148.6	178.9	399.1	842.3	993.6
117.5°	165.2	198.2	388.1	778.9	930.3
120°	178.9	214.7	379.9	718.4	867.0
122.5°	189.9	231.2	374.3	668.9	803.7
125°	201.0	247.7	371.6	627.6	748.7
127.5°	211.9	258.8	371.6	597.3	699.2
130°	223.0	264.3	368.8	567.0	657.8
132.5°	233.9	266.9	368.8	545.0	622.1
135°	242.2	272.5	368.8	522.9	591.8
137.5°	253.2	278.0	368.8	503.7	567.0
140°	261.5	286.3	368.8	484.4	539.5
142.5°	272.5	294.6	368.8	465.2	514.7
145°	283.5	302.7	366.1	451.5	489.9
147.5°	294.6	311.0	363.3	437.6	467.9
150°	302.7	319.3	363.3	423.8	448.7
152.5°	313.8	327.5	360.5	410.1	432.1
155°	322.1	333.0	360.5	401.8	415.7
157.5°	330.3	341.3	360.5	393.6	404.6
160°	338.5	346.8	363.3	388.1	396.3
162.5°	346.8	352.3	363.3	382.6	388.1
165°	352.3	355.1	363.3	379.9	382.6
167.5°	357.9	360.5	363.3	377.1	377.1
170°	360.5	363.3	366.1	374.3	374.3
172.5°	366.1	366.1	366.1	371.6	371.6
175°	368.8	368.8	366.1	371.6	368.8
177.5°	368.8	368.8	366.1	371.6	368.8
180°	368.8	368.8	368.8	368.8	368.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	101.9	134.9	487.2	968.9	979.9
110°	115.6	148.6	448.7	960.6	1040.5



(END OF REPORT)