

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: P844993

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

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844993  
REPORT IS A COMBINATION OF REPORTS P700196 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-075D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

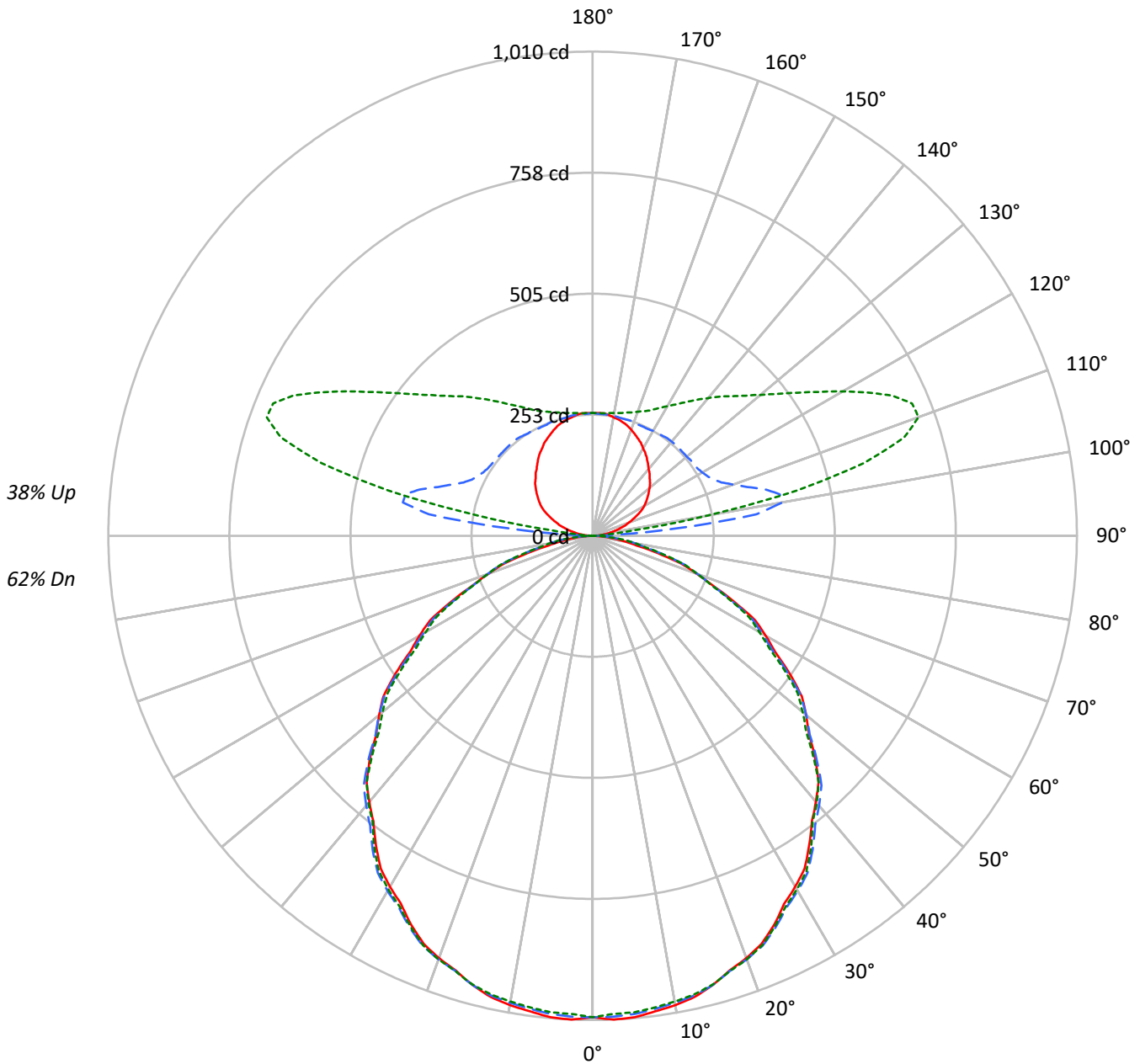
Lumens per Lamp: N/A  
Luminaire Lumens: 4405.3 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.6  
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									
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																			
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53																			
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	53	50	48	44																			
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	47	43	41	37																			
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32																			
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28																			
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24																			
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21																			
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19																			
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17																			
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	18	16																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9265	9265	9265
5°	9336	9274	9241
10°	9313	9269	9243
15°	9264	9264	9256
20°	9204	9230	9230
25°	9117	9181	9154
30°	9004	9114	9075
35°	8871	9007	8944
40°	8723	8847	8760
45°	8566	8627	8493
50°	8342	8342	8209
55°	8078	7972	7853
60°	7687	7532	7412
65°	7104	6962	6901
70°	6223	6269	6248
75°	5005	5536	5572
80°	3560	4692	4745
85°	2181	3938	3938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	2.2
10°-20°	272.7	6.2
20°-30°	413.0	9.4
30°-40°	495.2	11.2
40°-50°	504.9	11.5
50°-60°	440.8	10.0
60°-70°	315.5	7.2
70°-80°	162.5	3.7
80°-90°	41.7	0.9
90°-100°	102.0	2.3
100°-110°	355.0	8.1
110°-120°	343.9	7.8
120°-130°	269.8	6.1
130°-140°	213.5	4.8
140°-150°	164.8	3.7
150°-160°	118.1	2.7
160°-170°	72.3	1.6
170°-180°	24.4	0.6
0°-30°	780.8	17.7
0°-40°	1276.0	29.0
0°-60°	2221.7	50.4
0°-90°	2741.5	62.2
90°-120°	800.9	18.2
90°-150°	1449.0	32.9
90°-180°	1664.0	37.8
0°-180°	4405.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1008	998	1001	999	998	96
15°	970	962	970	970	969	273
25°	896	889	902	899	899	412
35°	788	786	800	794	794	493
45°	656	655	661	653	651	505
55°	502	496	496	488	488	448
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	21	31	37	38	37	28
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°	1004.2	1004.2	1004.2	1004.2	1004.2
2.5°	1010.3	1001.4	1004.2	1002.0	998.3
5°	1008.1	997.9	1001.4	998.6	997.8
7.5°	1000.7	990.8	995.4	993.4	992.5
10°	994.1	984.0	989.4	987.5	986.6
12.5°	985.2	975.8	981.9	980.2	979.8
15°	969.9	961.7	969.9	969.9	969.0
17.5°	950.7	943.3	951.9	952.6	951.9
20°	937.4	929.2	940.1	939.2	940.1
22.5°	921.0	914.3	925.9	923.6	924.5
25°	895.6	889.1	901.9	899.2	899.2
27.5°	865.4	860.7	874.8	871.8	871.8
30°	845.2	840.7	855.5	851.8	851.8
32.5°	822.9	819.9	834.0	829.5	829.5
35°	787.6	785.7	799.7	794.1	794.1
37.5°	751.1	749.5	762.2	755.4	753.2
40°	724.3	723.5	734.6	727.3	727.3
42.5°	697.5	696.6	706.4	697.5	697.5
45°	656.5	654.6	661.2	652.7	650.9
47.5°	611.7	609.9	613.9	604.7	603.8
50°	581.2	579.3	581.2	572.7	571.9
52.5°	550.0	546.6	546.9	538.6	538.4
55°	502.2	495.8	495.6	488.2	488.2
57.5°	451.5	443.2	444.0	437.6	436.6
60°	416.6	407.5	408.2	402.6	401.7
62.5°	382.3	371.9	374.0	367.7	367.6
65°	325.4	318.2	318.9	316.1	316.1
67.5°	270.8	264.0	268.9	266.8	266.6
70°	230.7	226.0	232.4	232.4	231.6
72.5°	193.5	193.3	201.2	201.2	201.8
75°	140.4	146.8	155.3	156.3	156.3
77.5°	93.8	105.0	114.4	114.7	114.6
80°	67.0	79.7	88.3	90.3	89.3
82.5°	45.3	58.8	66.1	67.8	67.0
85°	20.6	31.4	37.2	38.2	37.2
87.5°	5.9	12.5	14.9	14.9	13.4
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)