

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: P844977

Luminaire Tested: **SQ4P-PC3-025U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844977  
REPORT IS A COMBINATION OF REPORTS P700167 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-025U-050D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

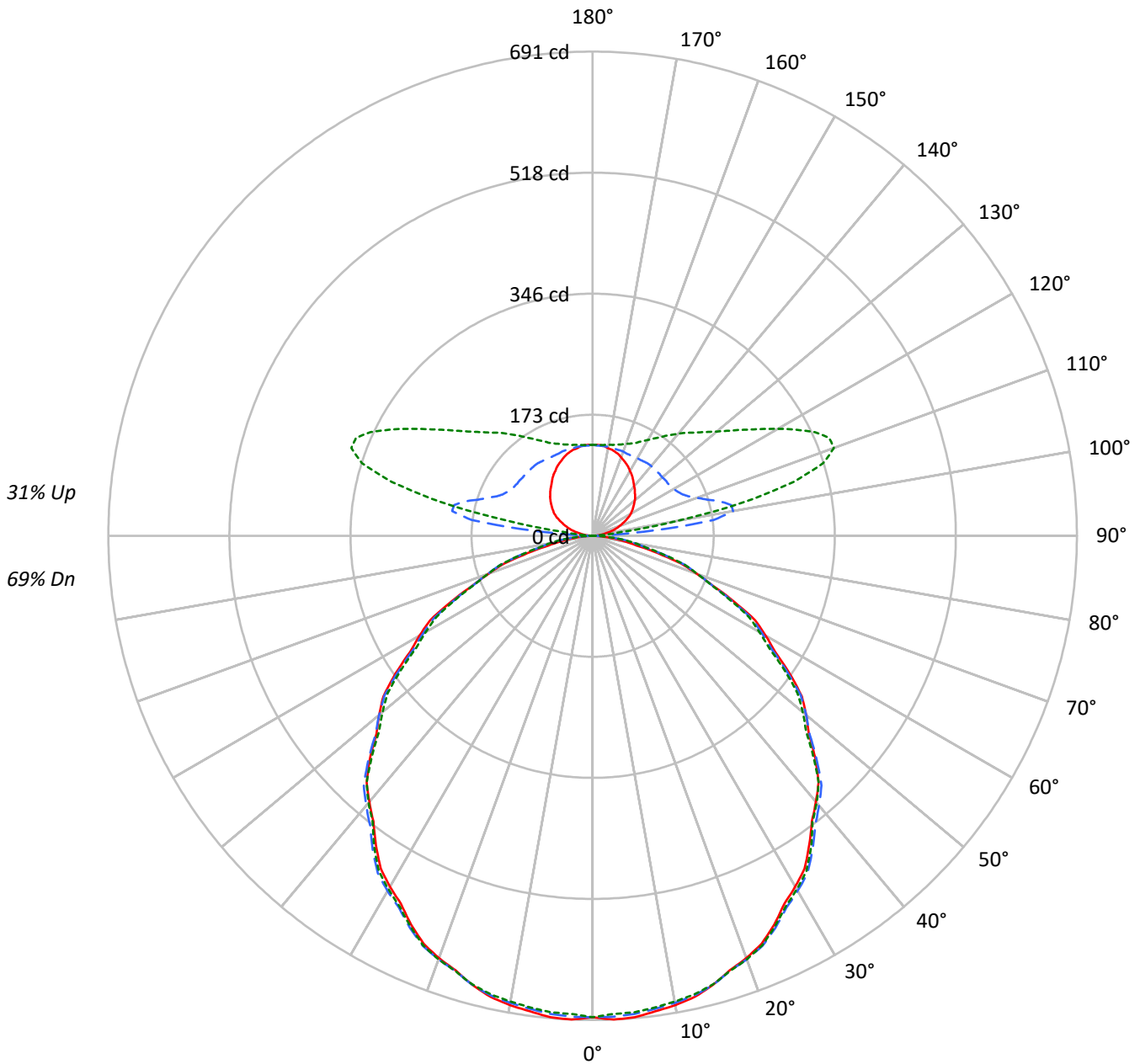
Lumens per Lamp: N/A  
Luminaire Lumens: 2718.3 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 23.8  
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									
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	74	74	74	69																			
1	102	98	94	90	96	92	89	86	83	80	77	74	72	70	65	64	62	58																			
2	93	85	79	74	88	81	75	70	72	68	64	65	61	58	57	55	53	49																			
3	85	75	67	61	80	71	64	59	64	58	54	57	53	49	51	48	45	41																			
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	45	42	38	35																			
5	71	59	51	45	67	56	49	43	51	45	40	46	41	37	41	37	33	31																			
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	33	29	27																			
7	61	48	40	34	57	46	38	33	42	35	31	38	32	28	34	29	26	24																			
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	31	27	23	21																			
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	29	24	21	19																			
10	49	37	29	24	47	35	28	24	32	26	22	29	24	21	27	22	19	17																			

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

	0°	45°	90°
0°	6338	6338	6338
5°	6388	6345	6322
10°	6372	6342	6324
15°	6338	6338	6332
20°	6296	6315	6315
25°	6236	6282	6263
30°	6160	6234	6208
35°	6070	6162	6119
40°	5969	6053	5992
45°	5861	5903	5810
50°	5707	5707	5616
55°	5525	5455	5373
60°	5259	5154	5071
65°	4860	4764	4722
70°	4257	4289	4273
75°	3422	3789	3811
80°	2433	3214	3246
85°	1493	2699	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	2.4
10°-20°	186.6	6.9
20°-30°	282.6	10.4
30°-40°	338.8	12.5
40°-50°	345.4	12.7
50°-60°	301.5	11.1
60°-70°	215.9	7.9
70°-80°	111.2	4.1
80°-90°	28.4	1.0
90°-100°	51.7	1.9
100°-110°	179.8	6.6
110°-120°	174.2	6.4
120°-130°	136.6	5.0
130°-140°	108.2	4.0
140°-150°	83.5	3.1
150°-160°	59.8	2.2
160°-170°	36.6	1.3
170°-180°	12.4	0.5
0°-30°	534.2	19.7
0°-40°	873.0	32.1
0°-60°	1520.0	55.9
0°-90°	1875.5	69.0
90°-120°	405.7	14.9
90°-150°	734.0	27.0
90°-180°	843.0	31.0
0°-180°	2718.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	690	683	685	683	683	65
15°	664	658	664	664	663	187
25°	613	608	617	615	615	282
35°	539	538	547	543	543	337
45°	449	448	452	446	445	346
55°	344	339	339	334	334	306
65°	223	218	218	216	216	220
75°	96	100	106	107	107	104
85°	14	22	26	26	26	19
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.0	687.0	687.0	687.0	687.0
2.5°	691.1	685.1	687.0	685.5	683.0
5°	689.7	682.7	685.1	683.2	682.6
7.5°	684.6	677.8	681.0	679.7	679.0
10°	680.1	673.2	676.9	675.6	675.0
12.5°	674.0	667.6	671.8	670.6	670.3
15°	663.5	658.0	663.5	663.5	662.9
17.5°	650.4	645.3	651.3	651.7	651.3
20°	641.3	635.7	643.2	642.5	643.2
22.5°	630.1	625.5	633.5	631.8	632.5
25°	612.6	608.3	617.1	615.2	615.2
27.5°	592.1	588.9	598.5	596.5	596.5
30°	578.2	575.1	585.2	582.7	582.7
32.5°	563.0	560.9	570.6	567.5	567.5
35°	538.9	537.5	547.1	543.3	543.3
37.5°	513.9	512.7	521.5	516.8	515.3
40°	495.6	495.0	502.6	497.5	497.5
42.5°	477.3	476.6	483.3	477.2	477.2
45°	449.2	447.8	452.4	446.5	445.3
47.5°	418.4	417.3	420.0	413.8	413.1
50°	397.6	396.3	397.6	391.8	391.3
52.5°	376.3	374.0	374.2	368.4	368.3
55°	343.5	339.2	339.1	334.0	334.0
57.5°	308.9	303.2	303.8	299.3	298.7
60°	285.0	278.8	279.3	275.5	274.8
62.5°	261.6	254.4	255.8	251.6	251.5
65°	222.6	217.7	218.2	216.3	216.3
67.5°	185.2	180.6	184.0	182.5	182.4
70°	157.8	154.7	159.0	159.0	158.4
72.5°	132.4	132.3	137.6	137.6	138.1
75°	96.0	100.5	106.3	106.9	106.9
77.5°	64.2	71.8	78.3	78.5	78.4
80°	45.8	54.5	60.5	61.7	61.1
82.5°	31.0	40.2	45.2	46.4	45.8
85°	14.1	21.5	25.5	26.1	25.5
87.5°	4.1	8.5	10.2	10.2	9.2
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)