

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: P845037

Luminaire Tested: **SQ4P-PC3-125U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845037  
REPORT IS A COMBINATION OF REPORTS P700111 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-125U-050D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

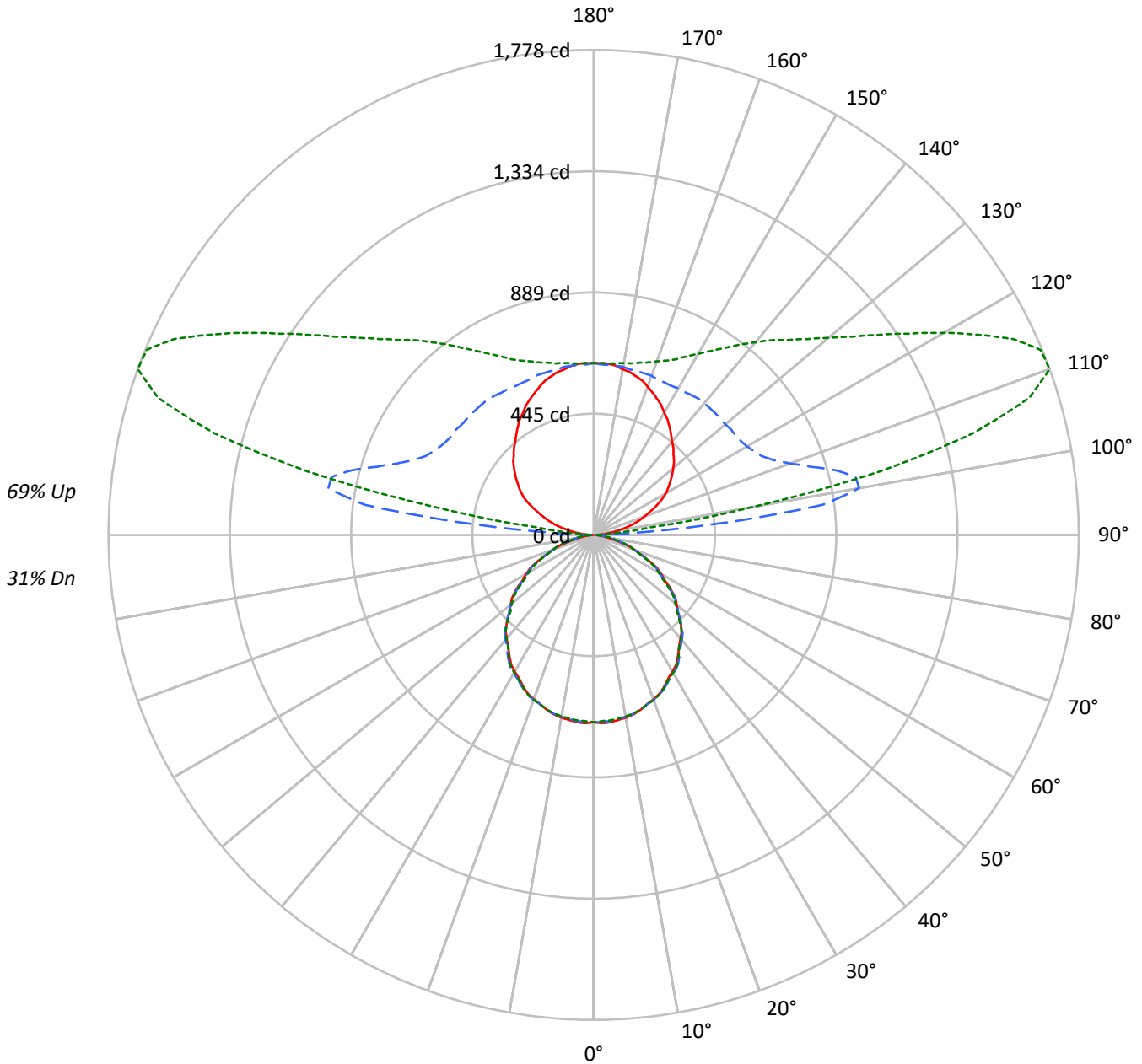
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5966.9 lumens  
Efficiency: N/A  
Efficacy: 117.5 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-Indirect

Input Watts (W): 50.8  
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31																			
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27																			
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22																			
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19																			
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16																			
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14																			
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	20	17	15	12																			
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11																			
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10																			
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9																			
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8																			

**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	1.1
10°-20°	186.6	3.1
20°-30°	282.6	4.7
30°-40°	338.8	5.7
40°-50°	345.4	5.8
50°-60°	301.5	5.1
60°-70°	215.9	3.6
70°-80°	111.2	1.9
80°-90°	29.7	0.5
90°-100°	250.8	4.2
100°-110°	872.7	14.6
110°-120°	845.4	14.2
120°-130°	663.2	11.1
130°-140°	524.9	8.8
140°-150°	405.1	6.8
150°-160°	290.4	4.9
160°-170°	177.6	3.0
170°-180°	60.1	1.0
0°-30°	534.2	9.0
0°-40°	873.0	14.6
0°-60°	1520.0	25.5
0°-90°	1876.7	31.5
90°-120°	1969.0	33.0
90°-150°	3562.1	59.7
90°-180°	4090.0	68.5
0°-180°	5966.9	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°	9	14	14	9	5	6
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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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°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)