

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: P845040

Luminaire Tested: **SQ4P-PC3-125U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845040  
REPORT IS A COMBINATION OF REPORTS P700112 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-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

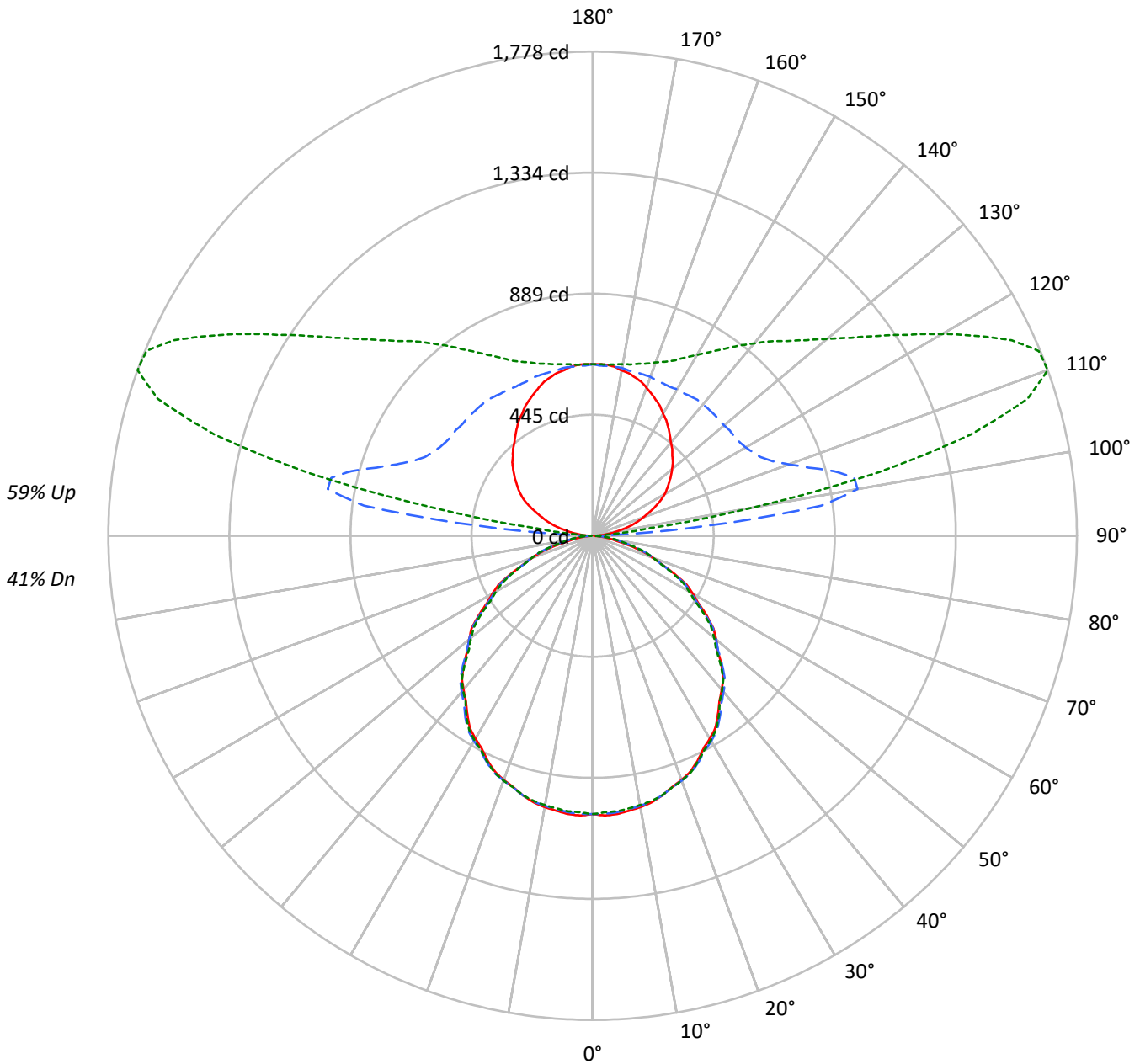
Lumens per Lamp: N/A  
Luminaire Lumens: 6881.7 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.6  
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

TEST NUMBER: P845040

CATALOG NUMBER: SQ4P-PC3-125U-075D-B40-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845040

CATALOG NUMBER: SQ4P-PC3-125U-075D-B40-1D-UNV

**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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41																			
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34																			
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29																			
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24																			
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21																			
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	21	18																			
6	61	49	41	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16																			
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14																			
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	12																			
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11																			
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10																			

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

	0°	45°	90°
0°	9431	9431	9431
5°	9503	9441	9407
10°	9480	9435	9408
15°	9430	9430	9421
20°	9368	9395	9395
25°	9280	9346	9318
30°	9165	9277	9237
35°	9030	9168	9104
40°	8880	9005	8916
45°	8720	8781	8644
50°	8491	8491	8355
55°	8223	8115	7993
60°	7826	7667	7543
65°	7230	7086	7023
70°	6334	6380	6361
75°	5094	5636	5671
80°	3624	4777	4830
85°	2212	4012	4012



TEST NUMBER: P845040

CATALOG NUMBER: SQ4P-PC3-125U-075D-B40-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.4
10°-20°	277.6	4.0
20°-30°	420.4	6.1
30°-40°	504.1	7.3
40°-50°	513.9	7.5
50°-60°	448.6	6.5
60°-70°	321.2	4.7
70°-80°	165.5	2.4
80°-90°	43.4	0.6
90°-100°	250.8	3.6
100°-110°	872.7	12.7
110°-120°	845.4	12.3
120°-130°	663.2	9.6
130°-140°	524.9	7.6
140°-150°	405.1	5.9
150°-160°	290.4	4.2
160°-170°	177.6	2.6
170°-180°	60.1	0.9
0°-30°	794.8	11.5
0°-40°	1298.9	18.9
0°-60°	2261.4	32.9
0°-90°	2791.5	40.6
90°-120°	1969.0	28.6
90°-150°	3562.1	51.8
90°-180°	4090.0	59.4
0°-180°	6881.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1026	1016	1019	1016	1016	97
15°	987	979	987	987	986	278
25°	912	905	918	915	915	420
35°	802	800	814	808	808	501
45°	668	666	673	664	662	514
55°	511	505	504	497	497	456
65°	331	324	325	322	322	328
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	9	14	14	9	5	7
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	



TEST NUMBER: P845040

CATALOG NUMBER: SQ4P-PC3-125U-075D-B40-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	1028.4	1019.4	1022.2	1019.9	1016.2
5°	1026.1	1015.8	1019.4	1016.5	1015.7
7.5°	1018.6	1008.5	1013.3	1011.2	1010.2
10°	1011.9	1001.6	1007.1	1005.2	1004.2
12.5°	1002.8	993.3	999.5	997.7	997.4
15°	987.3	978.9	987.3	987.3	986.3
17.5°	967.7	960.1	969.0	969.6	969.0
20°	954.1	945.8	956.9	956.0	956.9
22.5°	937.5	930.7	942.5	940.1	941.1
25°	911.6	905.0	918.1	915.3	915.3
27.5°	880.9	876.1	890.5	887.4	887.4
30°	860.3	855.8	870.8	867.0	867.0
32.5°	837.7	834.6	848.9	844.3	844.3
35°	801.7	799.8	814.0	808.3	808.3
37.5°	764.6	762.9	775.8	769.0	766.7
40°	737.3	736.5	747.7	740.3	740.3
42.5°	710.0	709.1	719.0	709.9	709.9
45°	668.3	666.3	673.0	664.4	662.5
47.5°	622.6	620.8	624.9	615.5	614.6
50°	591.6	589.7	591.6	583.0	582.1
52.5°	559.8	556.3	556.7	548.2	548.0
55°	511.2	504.7	504.5	496.9	496.9
57.5°	459.6	451.1	452.0	445.4	444.4
60°	424.1	414.8	415.5	409.8	408.8
62.5°	389.2	378.5	380.6	374.3	374.2
65°	331.2	323.9	324.6	321.7	321.7
67.5°	275.6	268.7	273.8	271.5	271.3
70°	234.8	230.1	236.5	236.5	235.8
72.5°	196.9	196.7	204.8	204.8	205.4
75°	142.9	149.4	158.1	159.1	159.1
77.5°	95.5	106.9	116.5	116.8	116.7
80°	68.2	81.1	89.9	91.9	90.9
82.5°	46.1	59.9	67.3	69.0	68.2
85°	20.9	32.0	37.9	38.9	37.9
87.5°	6.0	12.7	15.2	15.2	13.7
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



TEST NUMBER: P845040

CATALOG NUMBER: SQ4P-PC3-125U-075D-B40-1D-UNV

**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)