

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: P845047

Luminaire Tested: **SQ4P-PC3-125U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845047  
REPORT IS A COMBINATION OF REPORTS P700114 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-125D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

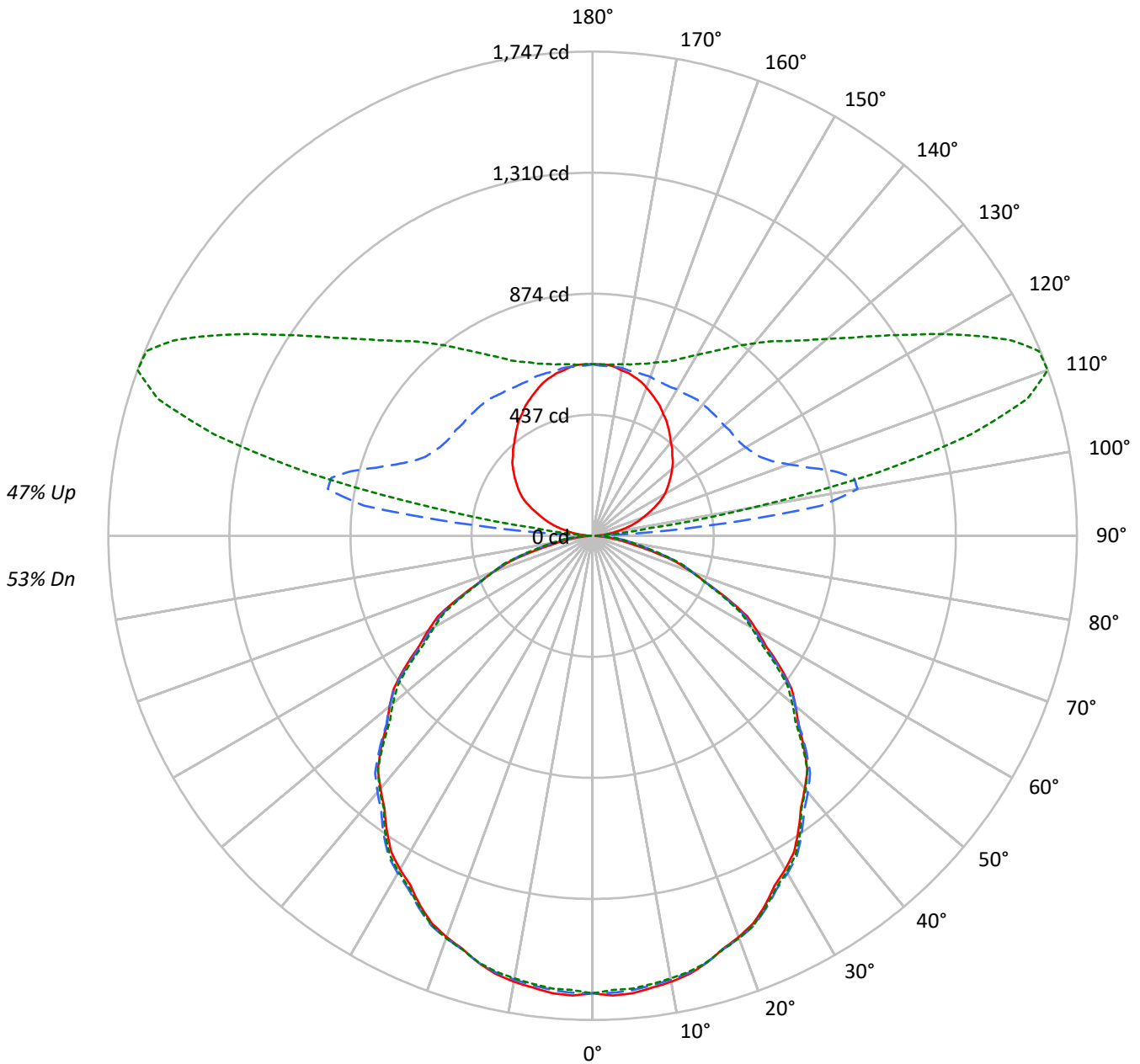
Lumens per Lamp: N/A  
Luminaire Lumens: 8524.8 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.8  
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53																			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	37																			
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	41	38	36	32																			
4	75	64	56	50	69	60	52	47	51	46	41	43	39	36	36	33	31	27																			
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	23																			
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23	21																			
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21	18																			
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16																			
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15	13																			

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

	0°	45°	90°
0°	15228	15228	15228
5°	15345	15245	15189
10°	15308	15236	15192
15°	15227	15227	15211
20°	15127	15170	15170
25°	14984	15092	15046
30°	14800	14979	14915
35°	14582	14804	14699
40°	14338	14543	14396
45°	14080	14179	13960
50°	13712	13712	13492
55°	13277	13103	12909
60°	12634	12382	12182
65°	11675	11446	11341
70°	10226	10305	10270
75°	8227	9101	9158
80°	5850	7715	7794
85°	3567	6468	6468



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	1.8
10°-20°	448.3	5.3
20°-30°	678.9	8.0
30°-40°	813.9	9.5
40°-50°	829.9	9.7
50°-60°	724.4	8.5
60°-70°	518.6	6.1
70°-80°	267.2	3.1
80°-90°	69.1	0.8
90°-100°	246.4	2.9
100°-110°	857.4	10.1
110°-120°	830.6	9.7
120°-130°	651.5	7.6
130°-140°	515.7	6.0
140°-150°	398.0	4.7
150°-160°	285.3	3.3
160°-170°	174.5	2.0
170°-180°	59.0	0.7
0°-30°	1283.4	15.1
0°-40°	2097.3	24.6
0°-60°	3651.6	42.8
0°-90°	4506.5	52.9
90°-120°	1934.4	22.7
90°-150°	3499.5	41.1
90°-180°	4018.0	47.1
0°-180°	8524.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1657	1640	1646	1641	1640	157
15°	1594	1581	1594	1594	1592	449
25°	1472	1461	1482	1478	1478	677
35°	1295	1291	1314	1305	1305	810
45°	1079	1076	1087	1073	1070	831
55°	825	815	815	802	802	736
65°	535	523	524	520	520	529
75°	231	241	255	257	257	249
85°	34	52	61	63	61	46
90°	9	14	14	9	5	7
95°	42	143	416	106	65	44
105°	143	203	901	1520	1414	151
115°	250	300	670	1414	1668	246
125°	337	416	624	1054	1257	302
135°	407	457	619	878	993	315
145°	476	508	614	758	822	298
155°	541	559	605	675	698	249
165°	592	596	610	638	642	167
175°	619	619	614	624	619	59
180°	619	619	619	619	619	



TEST NUMBER: P845047

CATALOG NUMBER: SQ4P-PC3-125U-125D-B50-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1660.5	1646.1	1650.5	1646.8	1640.8
5°	1656.9	1640.2	1646.1	1641.3	1640.0
7.5°	1644.7	1628.4	1636.1	1632.9	1631.3
10°	1634.0	1617.3	1626.3	1623.1	1621.6
12.5°	1619.2	1603.9	1614.0	1611.0	1610.5
15°	1594.2	1580.7	1594.2	1594.2	1592.5
17.5°	1562.6	1550.5	1564.7	1565.7	1564.7
20°	1540.7	1527.2	1545.1	1543.6	1545.1
22.5°	1513.8	1502.8	1522.0	1518.0	1519.6
25°	1471.9	1461.4	1482.5	1478.0	1478.0
27.5°	1422.4	1414.7	1437.9	1432.9	1432.9
30°	1389.2	1381.9	1406.0	1400.0	1400.0
32.5°	1352.5	1347.6	1370.7	1363.4	1363.4
35°	1294.7	1291.4	1314.4	1305.1	1305.1
37.5°	1234.6	1231.9	1252.8	1241.6	1238.0
40°	1190.5	1189.3	1207.5	1195.3	1195.3
42.5°	1146.5	1145.0	1161.1	1146.3	1146.3
45°	1079.1	1076.0	1086.7	1072.7	1069.9
47.5°	1005.3	1002.5	1009.1	994.0	992.4
50°	955.3	952.1	955.3	941.4	940.0
52.5°	903.9	898.4	898.9	885.2	884.9
55°	825.4	814.8	814.6	802.5	802.5
57.5°	742.1	728.5	729.7	719.3	717.6
60°	684.7	669.7	671.0	661.8	660.2
62.5°	628.3	611.2	614.6	604.3	604.1
65°	534.8	522.9	524.3	519.5	519.5
67.5°	445.0	433.9	442.1	438.4	438.1
70°	379.1	371.5	382.0	382.0	380.7
72.5°	318.0	317.7	330.6	330.6	331.7
75°	230.8	241.3	255.3	256.9	256.9
77.5°	154.1	172.6	188.1	188.6	188.4
80°	110.1	130.9	145.2	148.3	146.7
82.5°	74.5	96.7	108.5	111.5	110.1
85°	33.7	51.6	61.1	62.7	61.1
87.5°	9.7	20.6	24.5	24.5	22.1
90°	9.2	13.9	13.9	9.2	4.7
92.5°	23.1	69.3	64.6	27.7	23.1
95°	41.6	143.3	415.8	106.2	64.6
97.5°	64.6	161.7	831.7	378.9	203.4
100°	87.8	171.0	970.3	910.2	586.8
102.5°	115.5	184.8	965.7	1279.9	1053.5
105°	143.3	203.4	901.0	1520.2	1413.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.8	272.7	702.3	1529.4	1742.0
115°	249.5	300.4	670.0	1413.9	1668.0
117.5°	277.2	332.7	651.5	1307.7	1561.8
120°	300.4	360.4	637.7	1206.0	1455.6
122.5°	318.8	388.1	628.4	1122.8	1349.2
125°	337.3	415.8	623.8	1053.5	1256.9
127.5°	355.8	434.3	623.8	1002.7	1173.7
130°	374.2	443.5	619.2	951.8	1104.3
132.5°	392.8	448.2	619.2	914.9	1044.3
135°	406.6	457.4	619.2	878.0	993.4
137.5°	425.1	466.7	619.2	845.6	951.8
140°	439.0	480.6	619.2	813.2	905.7
142.5°	457.4	494.4	619.2	780.9	864.1
145°	475.9	508.3	614.5	757.8	822.5
147.5°	494.4	522.1	610.0	734.7	785.5
150°	508.3	536.0	610.0	711.5	753.1
152.5°	526.8	549.9	605.3	688.5	725.4
155°	540.7	559.1	605.3	674.6	697.7
157.5°	554.5	572.9	605.3	660.8	679.3
160°	568.4	582.2	610.0	651.5	665.4
162.5°	582.2	591.5	610.0	642.2	651.5
165°	591.5	596.1	610.0	637.7	642.2
167.5°	600.7	605.3	610.0	633.0	633.0
170°	605.3	610.0	614.5	628.4	628.4
172.5°	614.5	614.5	614.5	623.8	623.8
175°	619.2	619.2	614.5	623.8	619.2
177.5°	619.2	619.2	614.5	623.8	619.2
180°	619.2	619.2	619.2	619.2	619.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	171.0	226.4	817.9	1626.4	1645.0
110°	194.0	249.5	753.1	1612.6	1746.6



(END OF REPORT)