

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: P844987

Luminaire Tested: **SQ4P-PC3-025U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844987  
REPORT IS A COMBINATION OF REPORTS P700170 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-125D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

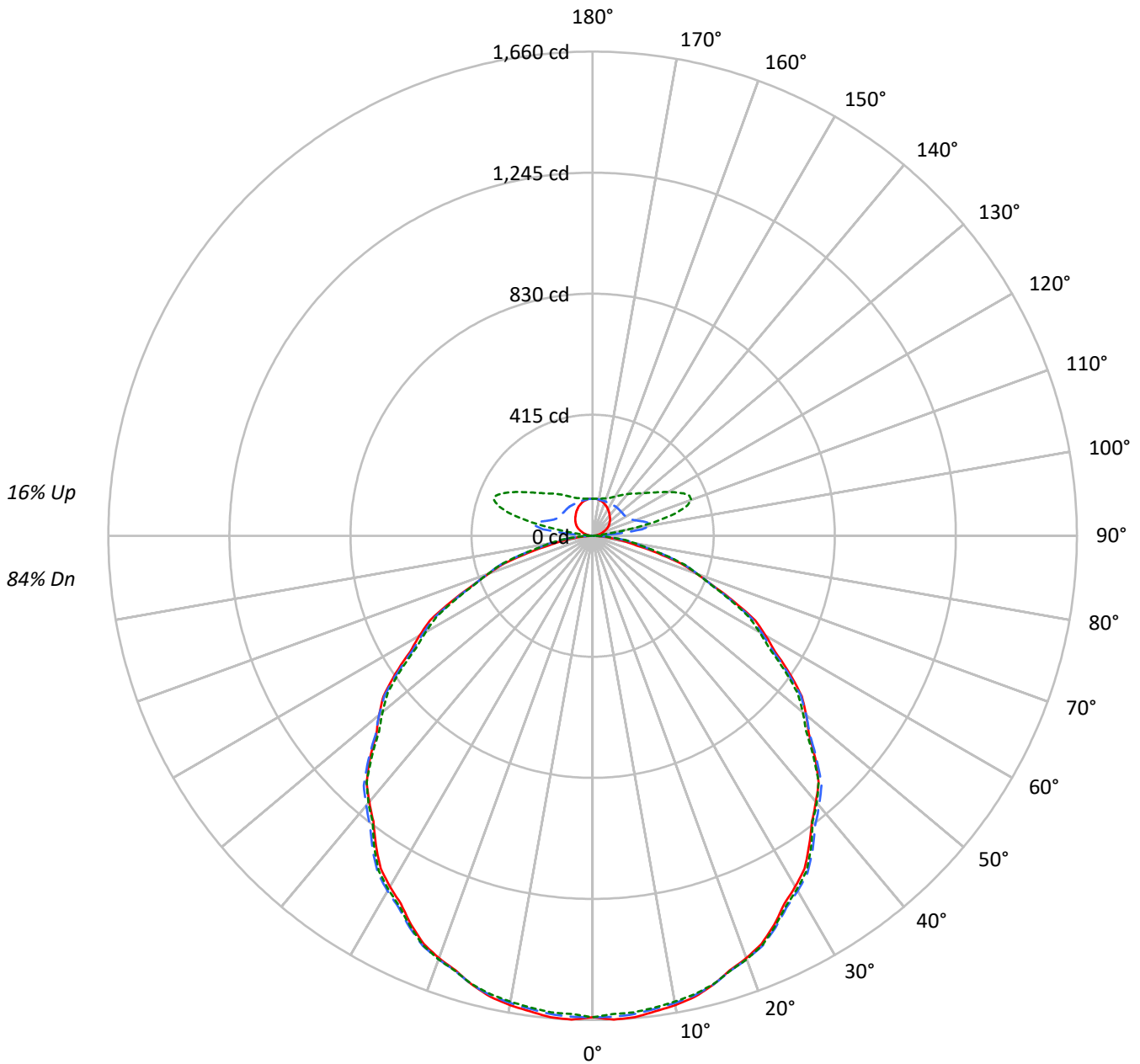
Lumens per Lamp: N/A  
Luminaire Lumens: 5333.3 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.8  
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				20				20
RC	80				70				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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84	84	84	84
1	106	101	97	93	101	97	94	90	90	87	85	84	82	79	78	76	74	71	71	71	71
2	96	88	82	76	92	85	79	74	79	74	70	74	70	66	69	65	63	60	60	60	60
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	53	51	51	51	51
4	80	69	60	54	77	67	59	53	62	56	50	58	53	48	54	50	46	43	43	43	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38	38	38	38
6	68	55	47	41	65	54	46	40	50	43	38	47	41	37	44	39	35	33	33	33	33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	40	35	31	29	29	29	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26	26	26	26
9	55	42	34	29	53	41	33	28	38	32	27	36	30	26	34	29	25	23	23	23	23
10	51	39	31	26	49	38	30	25	35	29	25	34	28	24	32	27	23	21	21	21	21

**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	2.9
10°-20°	448.3	8.4
20°-30°	678.9	12.7
30°-40°	813.9	15.3
40°-50°	829.9	15.6
50°-60°	724.4	13.6
60°-70°	518.6	9.7
70°-80°	267.2	5.0
80°-90°	67.9	1.3
90°-100°	50.8	1.0
100°-110°	176.7	3.3
110°-120°	171.2	3.2
120°-130°	134.2	2.5
130°-140°	106.3	2.0
140°-150°	82.0	1.5
150°-160°	58.8	1.1
160°-170°	36.0	0.7
170°-180°	12.2	0.2
0°-30°	1283.4	24.1
0°-40°	2097.3	39.3
0°-60°	3651.6	68.5
0°-90°	4505.3	84.5
90°-120°	398.6	7.5
90°-150°	721.1	13.5
90°-180°	828.0	15.5
0°-180°	5333.3	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°	2	3	3	2	1	3
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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CATALOG NUMBER: SQ4P-PC3-025U-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°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)