

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: P844994

Luminaire Tested: **SQ4P-PC3-050U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844994  
REPORT IS A COMBINATION OF REPORTS P700197 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-050U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

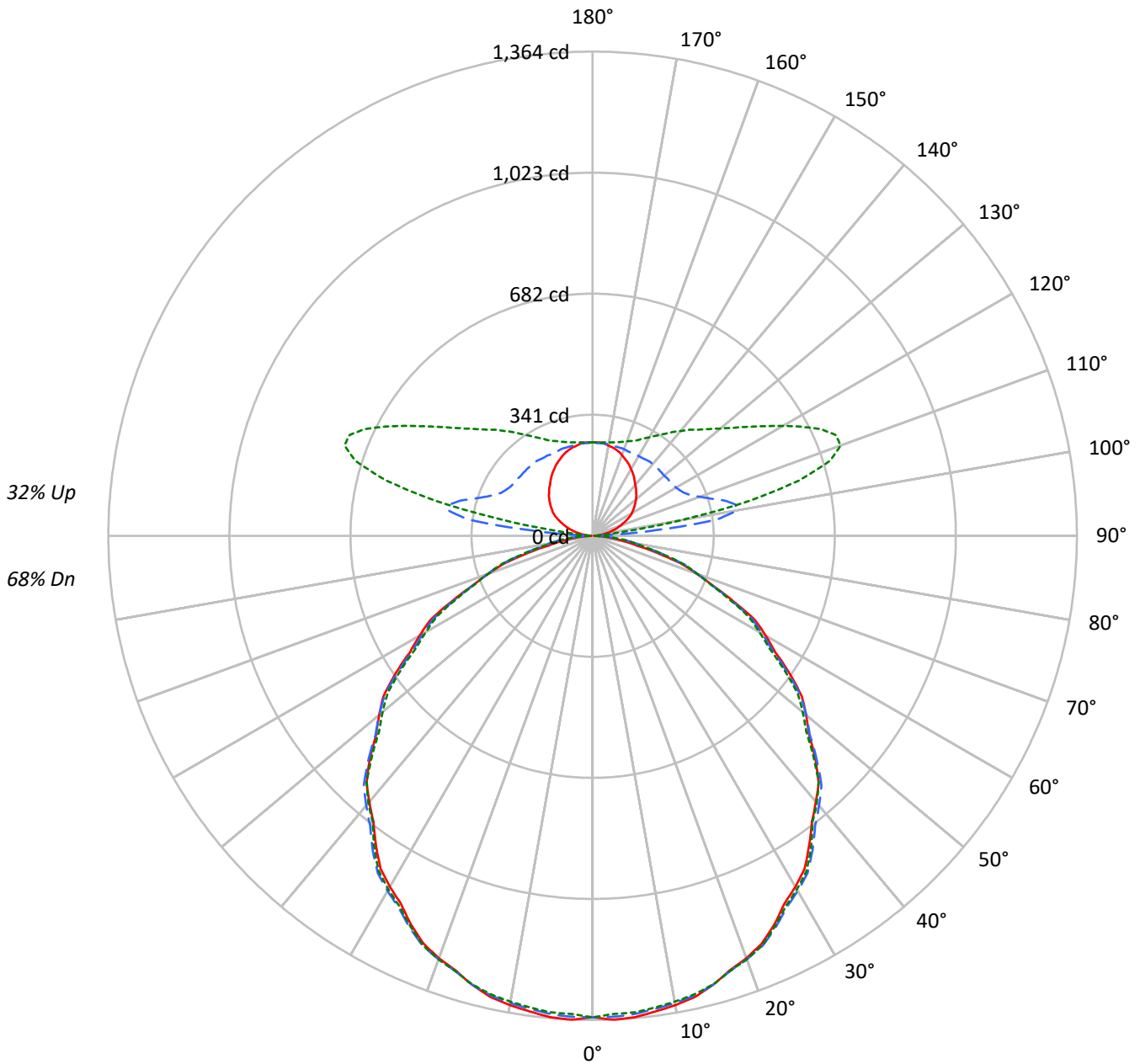
Lumens per Lamp: N/A  
Luminaire Lumens: 5412.7 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 47.9  
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	73	73	73	68																			
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	65	63	62	58																			
2	93	85	79	74	87	81	75	70	72	68	64	64	61	58	57	54	52	48																			
3	85	75	67	61	80	71	64	59	64	58	54	57	53	49	50	47	44	41																			
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	45	41	38	35																			
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	41	36	33	30																			
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	41	35	31	37	32	28	34	29	26	24																			
8	56	44	36	30	53	42	34	29	38	32	27	34	29	25	31	26	23	21																			
9	53	40	32	27	50	38	31	26	35	29	24	31	26	23	28	24	21	19																			
10	49	37	29	24	46	35	28	24	32	26	22	29	24	21	26	22	19	17																			

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

	0°	45°	90°
0°	12513	12513	12513
5°	12609	12528	12482
10°	12579	12520	12484
15°	12513	12513	12499
20°	12431	12466	12466
25°	12313	12401	12364
30°	12162	12309	12256
35°	11982	12164	12080
40°	11783	11950	11830
45°	11571	11652	11470
50°	11267	11267	11088
55°	10909	10768	10608
60°	10383	10175	10010
65°	9595	9407	9320
70°	8406	8468	8438
75°	6759	7479	7525
80°	4808	6339	6408
85°	2932	5314	5314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	2.4
10°-20°	368.4	6.8
20°-30°	557.9	10.3
30°-40°	668.8	12.4
40°-50°	682.0	12.6
50°-60°	595.3	11.0
60°-70°	426.2	7.9
70°-80°	219.5	4.1
80°-90°	56.2	1.0
90°-100°	104.9	1.9
100°-110°	364.9	6.7
110°-120°	353.5	6.5
120°-130°	277.3	5.1
130°-140°	219.5	4.1
140°-150°	169.4	3.1
150°-160°	121.4	2.2
160°-170°	74.3	1.4
170°-180°	25.1	0.5
0°-30°	1054.6	19.5
0°-40°	1723.4	31.8
0°-60°	3000.7	55.4
0°-90°	3702.6	68.4
90°-120°	823.3	15.2
90°-150°	1489.4	27.5
90°-180°	1710.0	31.6
0°-180°	5412.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1348	1353	1349	1348	129
15°	1310	1299	1310	1310	1309	369
25°	1210	1201	1218	1214	1214	557
35°	1064	1061	1080	1072	1072	665
45°	887	884	893	882	879	683
55°	678	670	669	660	660	605
65°	440	430	431	427	427	435
75°	190	198	210	211	211	205
85°	28	42	50	52	50	38
90°	4	6	6	4	2	4
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1364.5	1352.7	1356.3	1353.3	1348.3
5°	1361.5	1347.9	1352.7	1348.8	1347.7
7.5°	1351.6	1338.1	1344.5	1341.8	1340.5
10°	1342.7	1329.0	1336.4	1333.8	1332.5
12.5°	1330.6	1318.0	1326.3	1323.8	1323.4
15°	1310.0	1298.9	1310.0	1310.0	1308.6
17.5°	1284.0	1274.1	1285.7	1286.6	1285.7
20°	1266.1	1255.0	1269.7	1268.4	1269.7
22.5°	1244.0	1234.9	1250.7	1247.4	1248.7
25°	1209.5	1200.9	1218.2	1214.5	1214.5
27.5°	1168.8	1162.5	1181.6	1177.5	1177.5
30°	1141.6	1135.5	1155.4	1150.4	1150.4
32.5°	1111.5	1107.3	1126.4	1120.4	1120.4
35°	1063.8	1061.3	1080.0	1072.5	1072.5
37.5°	1014.5	1012.3	1029.5	1020.4	1017.3
40°	978.3	977.2	992.2	982.2	982.2
42.5°	942.2	940.9	954.1	942.0	942.0
45°	886.8	884.1	893.0	881.6	879.1
47.5°	826.1	823.8	829.1	816.8	815.5
50°	785.0	782.4	785.0	773.6	772.5
52.5°	742.7	738.2	738.6	727.4	727.2
55°	678.2	669.6	669.4	659.5	659.5
57.5°	609.8	598.6	599.7	591.1	589.7
60°	562.7	550.3	551.4	543.8	542.5
62.5°	516.3	502.3	505.0	496.6	496.4
65°	439.5	429.7	430.9	426.9	426.9
67.5°	365.7	356.6	363.2	360.2	360.0
70°	311.6	305.2	313.9	313.9	312.8
72.5°	261.3	261.1	271.6	271.6	272.5
75°	189.6	198.3	209.8	211.1	211.1
77.5°	126.6	141.8	154.6	155.0	154.8
80°	90.5	107.6	119.3	121.9	120.6
82.5°	61.3	79.5	89.1	91.6	90.5
85°	27.7	42.5	50.2	51.6	50.2
87.5°	8.0	16.9	20.2	20.2	18.2
90°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)