

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: P844982

Luminaire Tested: **SQ4P-PC3-025U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844982  
REPORT IS A COMBINATION OF REPORTS P700169 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-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

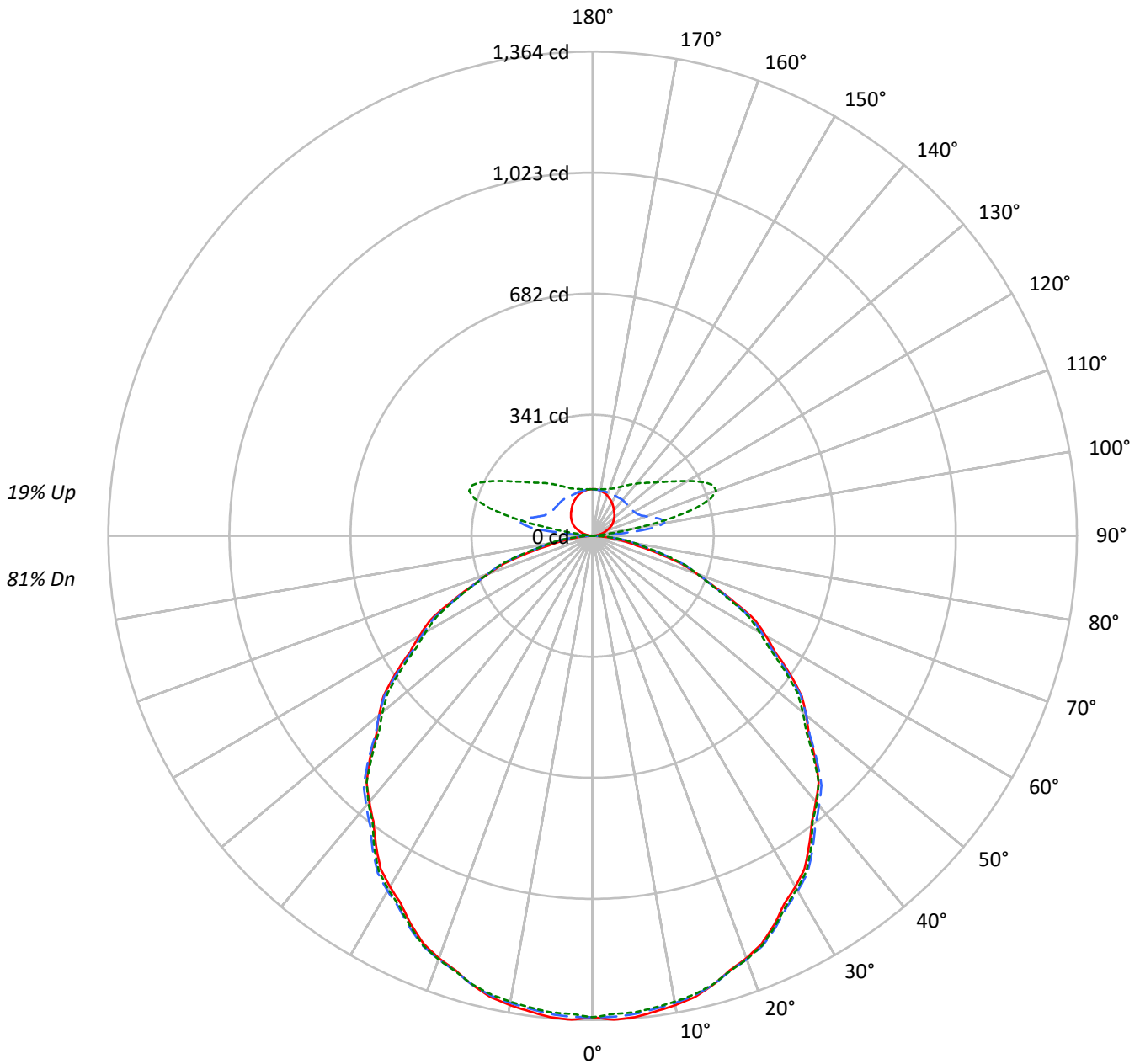
Lumens per Lamp: N/A  
Luminaire Lumens: 4553.3 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.9  
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				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	110	110	110	110	101	101	101	92	92	92	85	85	85	81			
1	105	100	96	93	100	96	93	89	89	86	83	82	79	77	75	74	72	69			
2	96	88	81	76	91	84	78	74	78	73	69	72	68	65	66	63	61	58			
3	87	77	69	63	83	74	67	62	69	63	58	63	59	55	59	55	52	49			
4	80	68	60	54	76	66	58	52	61	55	50	57	51	47	52	48	44	42			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	47	42	39	36			
6	68	55	46	40	65	53	45	39	49	43	38	46	40	36	43	38	34	32			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28			
8	58	45	37	31	56	44	36	31	41	34	30	38	33	28	36	31	27	25			
9	54	42	34	28	52	40	33	28	38	31	27	35	30	26	33	28	24	22			
10	51	38	31	26	49	37	30	25	35	28	24	33	27	23	31	26	22	20			

**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	2.8
10°-20°	368.4	8.1
20°-30°	557.9	12.3
30°-40°	668.8	14.7
40°-50°	682.0	15.0
50°-60°	595.3	13.1
60°-70°	426.2	9.4
70°-80°	219.5	4.8
80°-90°	55.9	1.2
90°-100°	52.2	1.1
100°-110°	181.6	4.0
110°-120°	175.9	3.9
120°-130°	138.0	3.0
130°-140°	109.2	2.4
140°-150°	84.3	1.9
150°-160°	60.4	1.3
160°-170°	37.0	0.8
170°-180°	12.5	0.3
0°-30°	1054.6	23.2
0°-40°	1723.4	37.9
0°-60°	3000.7	65.9
0°-90°	3702.2	81.3
90°-120°	409.7	9.0
90°-150°	741.2	16.3
90°-180°	851.0	18.7
0°-180°	4553.3	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°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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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°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)