

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: P844895

Luminaire Tested: **SQ4P-F-025U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844895  
REPORT IS A COMBINATION OF REPORTS P700164 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-F-025U-075D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

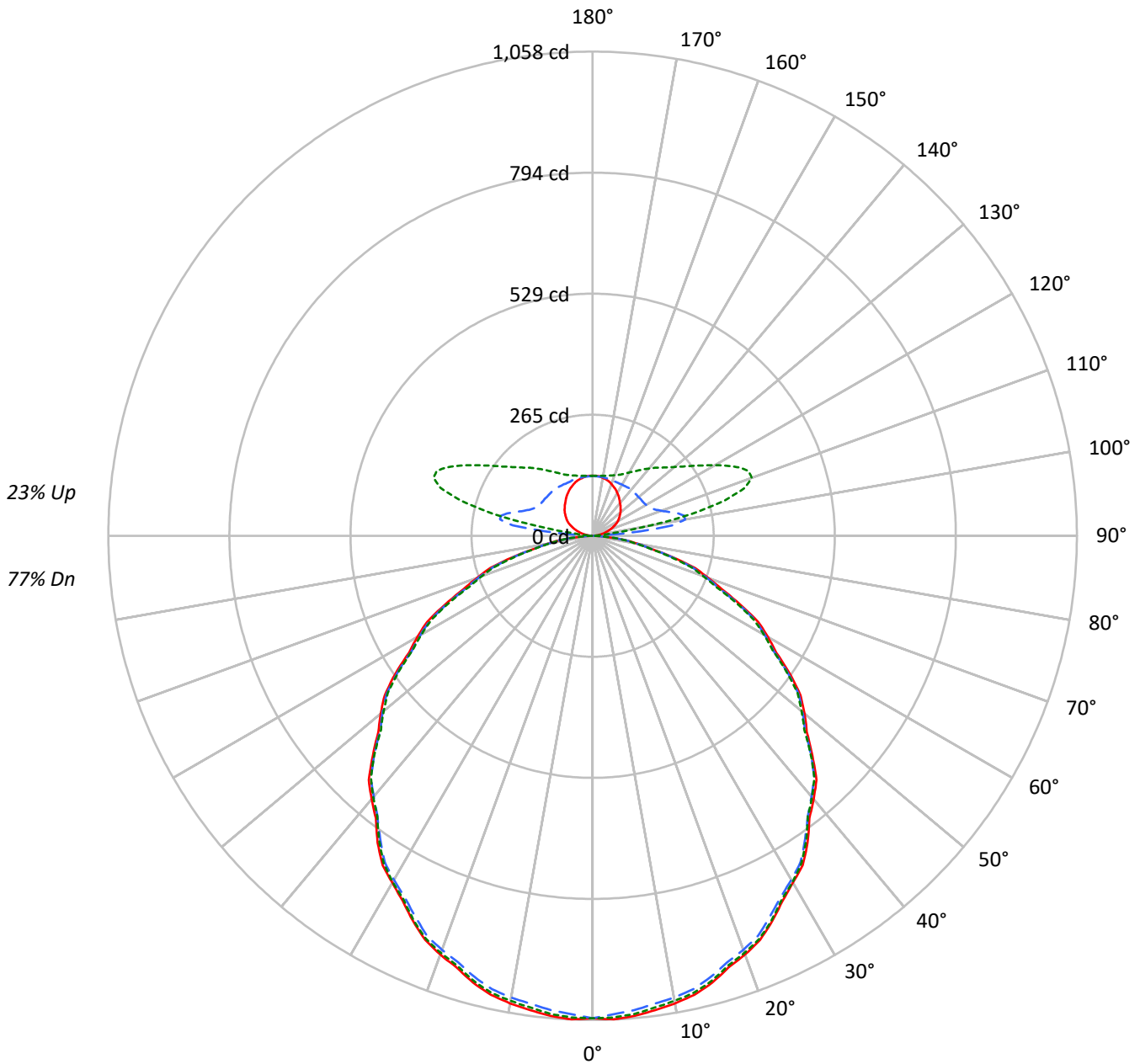
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3729.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 32.6  
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

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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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77				77															
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	72	70	69				65																
2	95	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	58				54																
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	56	52	49				46																
4	79	67	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42				39																
5	72	60	52	45	69	58	50	44	53	46	41	49	43	39	45	40	36				34																
6	67	54	45	39	63	52	44	38	48	41	36	44	38	34	41	36	32				30																
7	62	49	40	35	59	47	39	34	43	37	32	40	34	30	37	32	28				26																
8	58	45	36	31	55	43	35	30	40	33	28	37	31	27	34	29	26				23																
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	27	23				21																
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	21				19																

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

	0°	45°	90°
0°	9728	9728	9728
5°	9753	9636	9713
10°	9720	9601	9667
15°	9654	9532	9614
20°	9562	9452	9522
25°	9455	9340	9428
30°	9324	9248	9308
35°	9223	9112	9158
40°	9046	8959	8978
45°	8858	8786	8786
50°	8672	8592	8552
55°	8471	8356	8311
60°	8154	8023	7971
65°	7765	7612	7519
70°	7235	7081	6930
75°	6488	6288	6135
80°	5249	5186	5021
85°	3123	3599	3726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	2.7
10°-20°	283.3	7.6
20°-30°	425.6	11.4
30°-40°	508.0	13.6
40°-50°	520.5	14.0
50°-60°	464.2	12.4
60°-70°	345.7	9.3
70°-80°	187.7	5.0
80°-90°	43.8	1.2
90°-100°	52.2	1.4
100°-110°	181.6	4.9
110°-120°	175.9	4.7
120°-130°	138.0	3.7
130°-140°	109.2	2.9
140°-150°	84.3	2.3
150°-160°	60.4	1.6
160°-170°	37.0	1.0
170°-180°	12.5	0.3
0°-30°	808.4	21.7
0°-40°	1316.4	35.3
0°-60°	2301.1	61.7
0°-90°	2878.3	77.2
90°-120°	409.7	11.0
90°-150°	741.2	19.9
90°-180°	851.0	22.8
0°-180°	3729.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1052	1040	1050	1049	100
15°	1011	1008	998	1006	1006	285
25°	929	926	918	923	926	428
35°	819	816	809	809	813	511
45°	679	680	673	672	673	524
55°	527	527	520	515	517	469
65°	356	354	349	344	344	352
75°	182	180	176	174	172	192
85°	30	32	34	35	35	41
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°	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1057.7	1055.6	1046.6	1054.4	1053.4
5°	1053.1	1051.7	1040.4	1050.2	1048.8
7.5°	1045.4	1042.8	1031.5	1041.3	1039.8
10°	1037.5	1034.6	1024.8	1033.2	1031.9
12.5°	1027.4	1025.7	1014.8	1023.2	1022.8
15°	1010.7	1007.8	997.9	1006.5	1006.5
17.5°	988.7	987.1	977.3	985.4	984.6
20°	973.9	971.2	962.7	969.8	969.8
22.5°	956.0	954.3	945.9	951.7	952.8
25°	928.8	926.1	917.5	923.3	926.1
27.5°	898.9	896.8	889.7	893.3	895.3
30°	875.2	875.2	868.1	869.6	873.7
32.5°	853.8	853.8	845.6	847.0	849.0
35°	818.9	816.0	809.0	809.0	813.1
37.5°	778.0	776.7	772.2	771.4	772.6
40°	751.1	749.7	743.9	745.4	745.4
42.5°	723.9	722.5	716.7	714.8	717.0
45°	678.9	680.4	673.4	671.9	673.4
47.5°	634.8	634.8	629.0	625.1	627.3
50°	604.2	604.2	598.6	595.8	595.8
52.5°	572.6	573.6	566.8	563.0	564.1
55°	526.6	526.6	519.5	515.3	516.7
57.5°	475.7	475.7	468.7	464.4	466.9
60°	441.9	441.9	434.8	430.5	432.0
62.5°	408.0	408.0	401.0	396.7	396.9
65°	355.7	354.4	348.7	344.4	344.4
67.5°	305.4	301.8	297.6	291.9	291.9
70°	268.2	266.8	262.5	256.9	256.9
72.5°	234.3	231.8	227.5	223.1	223.1
75°	182.0	180.5	176.4	173.7	172.1
77.5°	130.4	129.4	129.0	125.1	126.2
80°	98.8	98.8	97.6	94.5	94.5
82.5°	70.6	71.6	69.2	68.5	67.4
85°	29.5	32.3	34.0	35.2	35.2
87.5°	5.8	8.9	7.9	9.1	9.1
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)