

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: P845252

Luminaire Tested: **SQ4P-PW1-075U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845252  
REPORT IS A COMBINATION OF REPORTS P700235 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PW1-075U-050D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

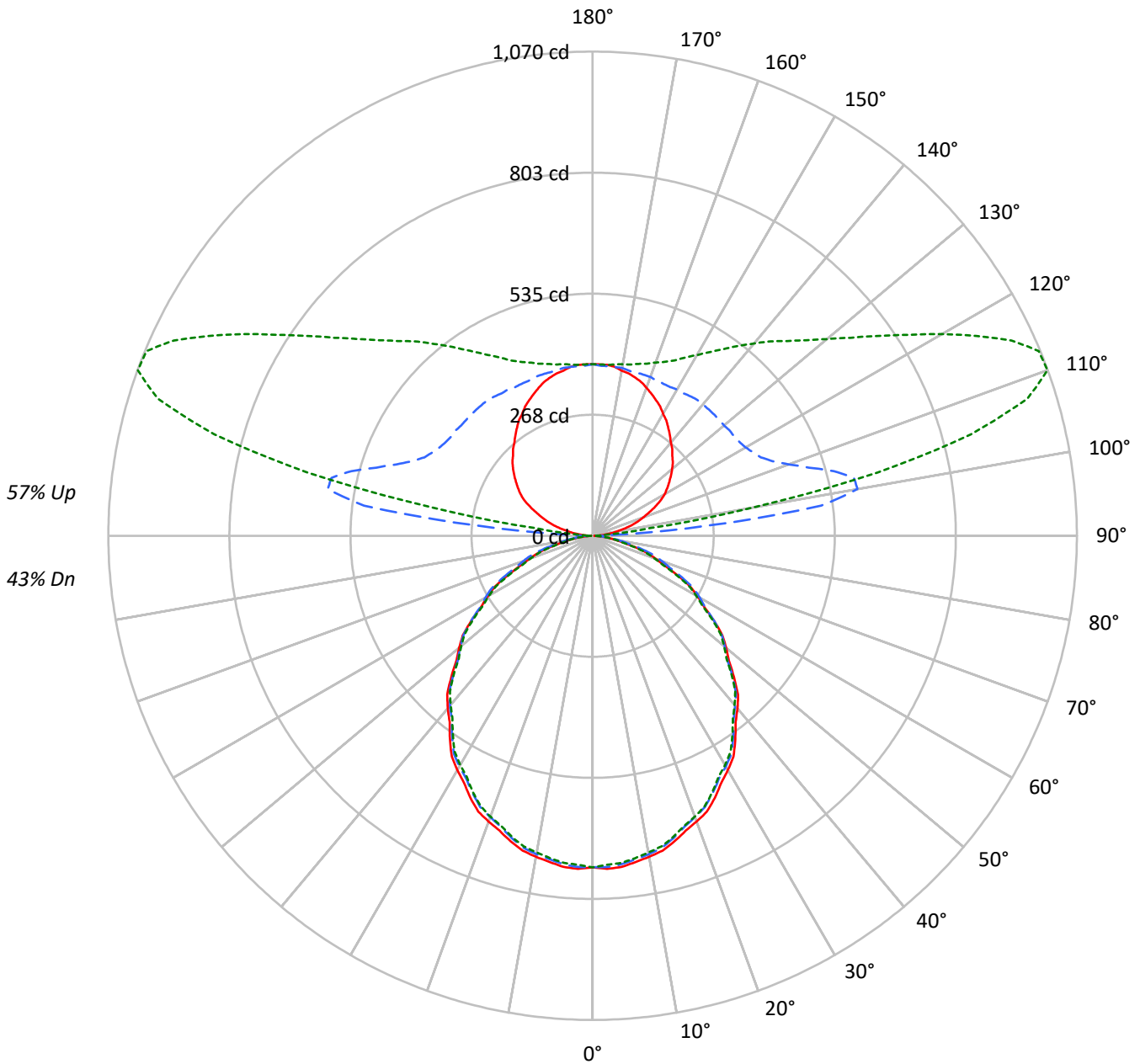
Lumens per Lamp: N/A  
Luminaire Lumens: 4325.5 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.8  
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43																			
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42	37																			
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31																			
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26																			
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	31	28	26	22																			
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	19																			
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17																			
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15																			
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14																			
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14	12																			
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11																			

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

	0°	45°	90°
0°	6760	6760	6760
5°	6803	6750	6720
10°	6749	6695	6658
15°	6679	6604	6579
20°	6598	6496	6484
25°	6506	6388	6368
30°	6369	6273	6231
35°	6188	6099	6063
40°	5994	5902	5877
45°	5761	5686	5660
50°	5523	5476	5439
55°	5263	5263	5181
60°	4943	5039	4860
65°	4523	4748	4412
70°	3987	4373	3882
75°	3408	3911	3315
80°	2641	3289	2678
85°	1704	2530	2244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.6
10°-20°	194.8	4.5
20°-30°	288.9	6.7
30°-40°	338.1	7.8
40°-50°	336.6	7.8
50°-60°	290.7	6.7
60°-70°	209.2	4.8
70°-80°	109.7	2.5
80°-90°	28.1	0.6
90°-100°	150.9	3.5
100°-110°	525.0	12.1
110°-120°	508.6	11.8
120°-130°	398.9	9.2
130°-140°	315.7	7.3
140°-150°	243.7	5.6
150°-160°	174.7	4.0
160°-170°	106.8	2.5
170°-180°	36.1	0.8
0°-30°	552.7	12.8
0°-40°	890.8	20.6
0°-60°	1518.0	35.1
0°-90°	1865.1	43.1
90°-120°	1184.4	27.4
90°-150°	2142.8	49.5
90°-180°	2460.0	56.9
0°-180°	4325.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	735	726	729	727	726	70
15°	699	690	691	690	689	197
25°	639	628	628	624	626	294
35°	549	542	542	536	538	343
45°	442	438	436	434	434	341
55°	327	327	327	323	322	292
65°	207	214	218	209	202	205
75°	96	104	110	102	93	102
85°	16	21	24	23	21	21
90°	6	8	8	6	3	4
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	732.7	732.7	732.7	732.7	732.7
2.5°	736.9	730.8	732.7	731.1	727.6
5°	734.6	726.4	728.8	726.9	725.6
7.5°	727.2	719.6	721.3	719.2	718.6
10°	720.4	712.9	714.6	712.1	710.7
12.5°	712.7	704.6	706.4	703.7	703.0
15°	699.2	690.3	691.4	690.0	688.8
17.5°	683.3	674.4	674.5	672.6	672.2
20°	672.0	662.6	661.6	659.1	660.4
22.5°	659.7	649.7	648.8	645.2	646.9
25°	639.1	628.3	627.5	623.6	625.5
27.5°	615.3	604.8	604.8	599.4	601.3
30°	597.8	587.6	588.8	582.3	584.9
32.5°	579.2	570.1	570.6	564.2	566.9
35°	549.4	541.8	541.5	536.4	538.3
37.5°	518.8	512.2	511.1	508.2	508.7
40°	497.7	492.0	490.0	488.0	488.0
42.5°	475.5	470.4	468.2	466.8	466.4
45°	441.5	437.8	435.8	434.4	433.8
47.5°	408.0	404.4	402.7	401.8	401.1
50°	384.8	382.2	381.5	379.6	378.9
52.5°	361.6	360.0	359.3	356.9	356.2
55°	327.2	326.7	327.2	322.8	322.1
57.5°	291.6	292.7	294.7	288.7	287.1
60°	267.9	270.4	273.1	266.0	263.4
62.5°	243.6	247.7	251.4	243.2	239.6
65°	207.2	213.5	217.5	209.0	202.1
67.5°	172.1	180.0	184.8	175.6	167.7
70°	147.8	156.7	162.1	152.8	143.9
72.5°	126.6	136.5	140.9	132.1	123.3
75°	95.6	104.4	109.7	102.4	93.0
77.5°	67.8	76.1	80.5	74.2	66.3
80°	49.7	58.5	61.9	56.7	50.4
82.5°	35.2	42.7	44.9	41.7	37.4
85°	16.1	21.1	23.9	22.6	21.2
87.5°	4.1	7.6	9.8	9.8	10.4
90°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)