

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: P845076

Luminaire Tested: **SQ4P-PP3-050U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845076  
REPORT IS A COMBINATION OF REPORTS P700200 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-050U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

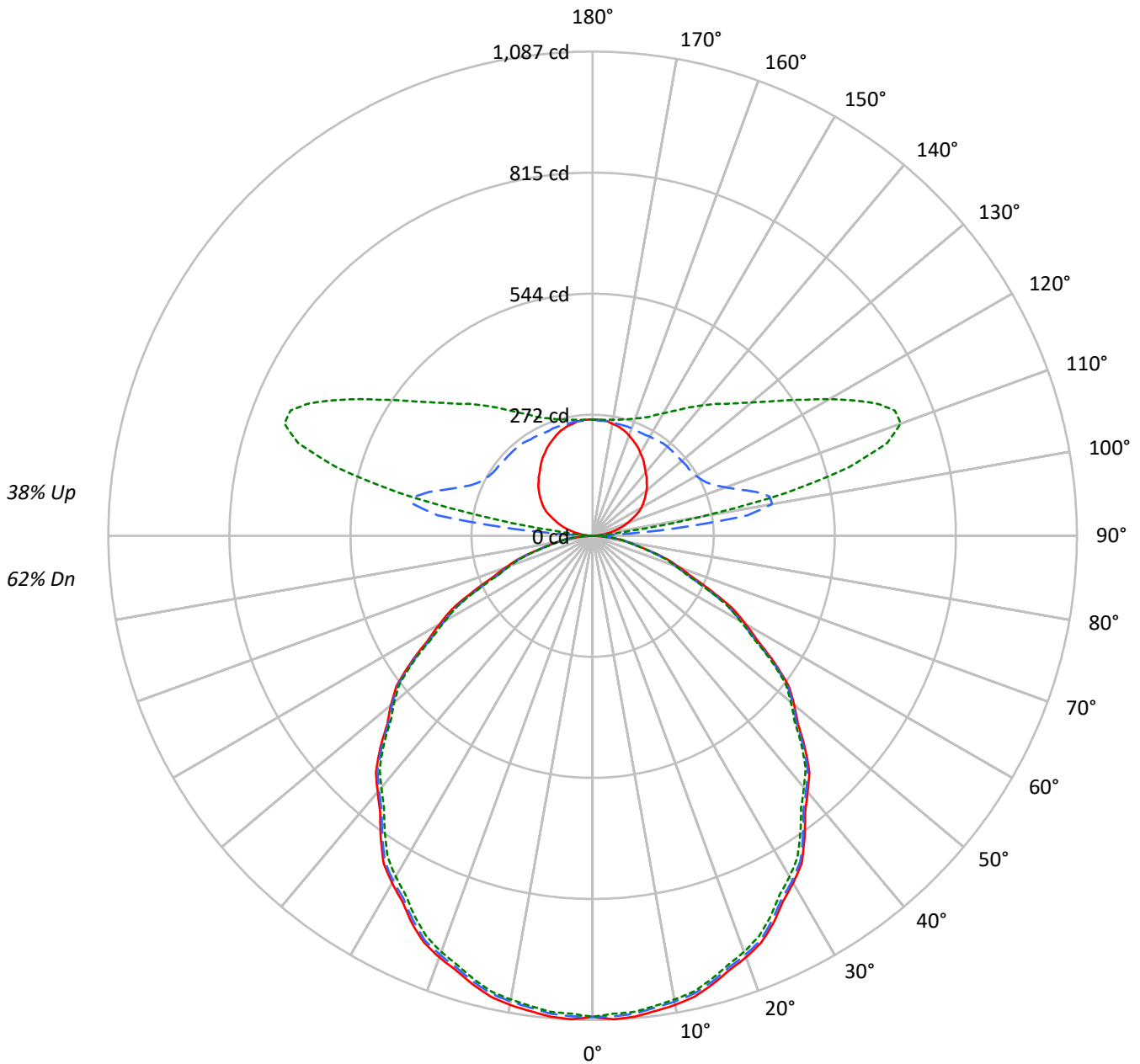
Lumens per Lamp: N/A  
Luminaire Lumens: 4458.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.6  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																			
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53																			
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45																			
3	84	74	67	61	78	70	64	58	62	57	52	54	50	47	47	44	42	38																			
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33																			
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28																			
6	65	53	45	39	61	50	43	37	45	38	34	39	34	31	34	31	28	25																			
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	32	28	25	22																			
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20																			
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18																			
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16																			

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

	0°	45°	90°
0°	9963	9963	9963
5°	10036	9974	9938
10°	10020	9948	9904
15°	9953	9898	9844
20°	9887	9830	9756
25°	9770	9703	9607
30°	9589	9538	9417
35°	9337	9274	9156
40°	9038	8981	8880
45°	8793	8730	8644
50°	8476	8423	8341
55°	8036	7933	7872
60°	7316	7110	7073
65°	6449	6178	6156
70°	5562	5336	5336
75°	4791	4723	4652
80°	4224	4272	4171
85°	3303	3610	3610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	2.3
10°-20°	291.6	6.5
20°-30°	436.7	9.8
30°-40°	512.2	11.5
40°-50°	513.8	11.5
50°-60°	438.4	9.8
60°-70°	285.9	6.4
70°-80°	143.4	3.2
80°-90°	40.3	0.9
90°-100°	103.8	2.3
100°-110°	361.4	8.1
110°-120°	350.0	7.9
120°-130°	274.6	6.2
130°-140°	217.3	4.9
140°-150°	167.7	3.8
150°-160°	120.2	2.7
160°-170°	73.5	1.6
170°-180°	24.9	0.6
0°-30°	830.4	18.6
0°-40°	1342.6	30.1
0°-60°	2294.8	51.5
0°-90°	2764.4	62.0
90°-120°	815.2	18.3
90°-150°	1474.9	33.1
90°-180°	1694.0	38.0
0°-180°	4458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1084	1074	1077	1073	1073	103
15°	1042	1032	1036	1032	1031	294
25°	960	948	953	944	944	441
35°	829	821	823	814	813	518
45°	674	669	669	662	662	519
55°	500	498	493	490	489	444
65°	295	290	283	281	282	295
75°	134	134	132	132	130	146
85°	31	34	34	34	34	37
90°	4	6	6	4	2	4
95°	18	60	175	45	27	19
105°	60	86	380	641	596	63
115°	105	127	282	596	703	104
125°	142	175	263	444	530	127
135°	171	193	261	370	419	133
145°	201	214	259	319	347	125
155°	228	236	255	284	294	105
165°	249	251	257	269	271	70
175°	261	261	259	263	261	25
180°	261	261	261	261	261	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1086.6	1077.8	1079.9	1078.3	1073.8
5°	1083.6	1073.5	1076.9	1073.1	1073.1
7.5°	1076.2	1065.2	1068.6	1064.9	1064.7
10°	1069.5	1058.3	1061.9	1058.0	1057.2
12.5°	1059.7	1048.5	1052.8	1048.2	1048.0
15°	1042.0	1031.8	1036.3	1032.4	1030.6
17.5°	1022.1	1011.0	1016.5	1011.2	1010.3
20°	1007.0	995.8	1001.2	993.7	993.7
22.5°	988.8	977.7	983.9	974.0	974.0
25°	959.7	948.5	953.1	944.4	943.7
27.5°	925.1	914.1	918.9	909.1	908.9
30°	900.1	889.8	895.3	884.9	883.9
32.5°	872.8	863.3	867.3	856.8	855.9
35°	829.0	820.8	823.4	813.9	812.9
37.5°	783.1	774.6	777.5	769.3	769.0
40°	750.4	744.9	745.7	739.0	737.3
42.5°	720.2	713.9	714.7	708.0	707.7
45°	673.9	669.1	669.1	662.5	662.5
47.5°	624.7	621.1	620.1	614.5	614.4
50°	590.5	587.7	586.8	582.0	581.1
52.5°	555.0	553.6	550.4	546.5	546.3
55°	499.6	497.8	493.2	490.2	489.4
57.5°	439.8	436.0	430.7	426.6	427.2
60°	396.5	392.8	385.3	383.3	383.3
62.5°	354.9	350.5	342.9	340.2	341.7
65°	295.4	289.7	283.0	281.1	282.0
67.5°	241.2	236.1	228.8	228.8	228.1
70°	206.2	203.5	197.8	197.8	197.8
72.5°	175.2	173.9	169.9	169.7	169.0
75°	134.4	134.4	132.5	131.5	130.5
77.5°	100.7	101.0	100.2	99.2	97.4
80°	79.5	81.4	80.4	79.5	78.5
82.5°	59.9	61.6	61.5	59.9	59.6
85°	31.2	33.9	34.1	34.1	34.1
87.5°	8.3	11.2	12.1	12.1	12.9
90°	3.9	5.8	5.8	3.9	1.9
92.5°	9.7	29.2	27.2	11.7	9.7
95°	17.5	60.4	175.3	44.8	27.2
97.5°	27.2	68.1	350.5	159.7	85.7
100°	37.0	72.1	408.9	383.7	247.3
102.5°	48.6	77.9	407.0	539.4	444.0
105°	60.4	85.7	379.8	640.6	595.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	93.5	114.9	296.0	644.6	734.2
115°	105.1	126.6	282.4	595.9	703.0
117.5°	116.9	140.2	274.5	551.1	658.2
120°	126.6	151.9	268.7	508.3	613.4
122.5°	134.4	163.6	264.8	473.2	568.6
125°	142.2	175.3	262.9	444.0	529.7
127.5°	149.9	183.1	262.9	422.6	494.6
130°	157.8	186.9	261.0	401.2	465.4
132.5°	165.5	188.9	261.0	385.6	440.1
135°	171.3	192.7	261.0	370.0	418.7
137.5°	179.2	196.7	261.0	356.3	401.2
140°	185.0	202.5	261.0	342.8	381.7
142.5°	192.7	208.3	261.0	329.1	364.2
145°	200.6	214.3	259.0	319.4	346.6
147.5°	208.3	220.1	257.1	309.6	331.0
150°	214.3	225.9	257.1	299.9	317.5
152.5°	222.0	231.7	255.2	290.1	305.7
155°	227.8	235.7	255.2	284.3	294.0
157.5°	233.6	241.5	255.2	278.5	286.3
160°	239.6	245.4	257.1	274.5	280.4
162.5°	245.4	249.2	257.1	270.7	274.5
165°	249.2	251.2	257.1	268.7	270.7
167.5°	253.1	255.2	257.1	266.8	266.8
170°	255.2	257.1	259.0	264.8	264.8
172.5°	259.0	259.0	259.0	262.9	262.9
175°	261.0	261.0	259.0	262.9	261.0
177.5°	261.0	261.0	259.0	262.9	261.0
180°	261.0	261.0	261.0	261.0	261.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	72.1	95.5	344.7	685.5	693.3
110°	81.8	105.1	317.5	679.6	736.1



(END OF REPORT)