

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: P845240

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

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845240  
REPORT IS A COMBINATION OF REPORTS P700207 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PW1-050U-050D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

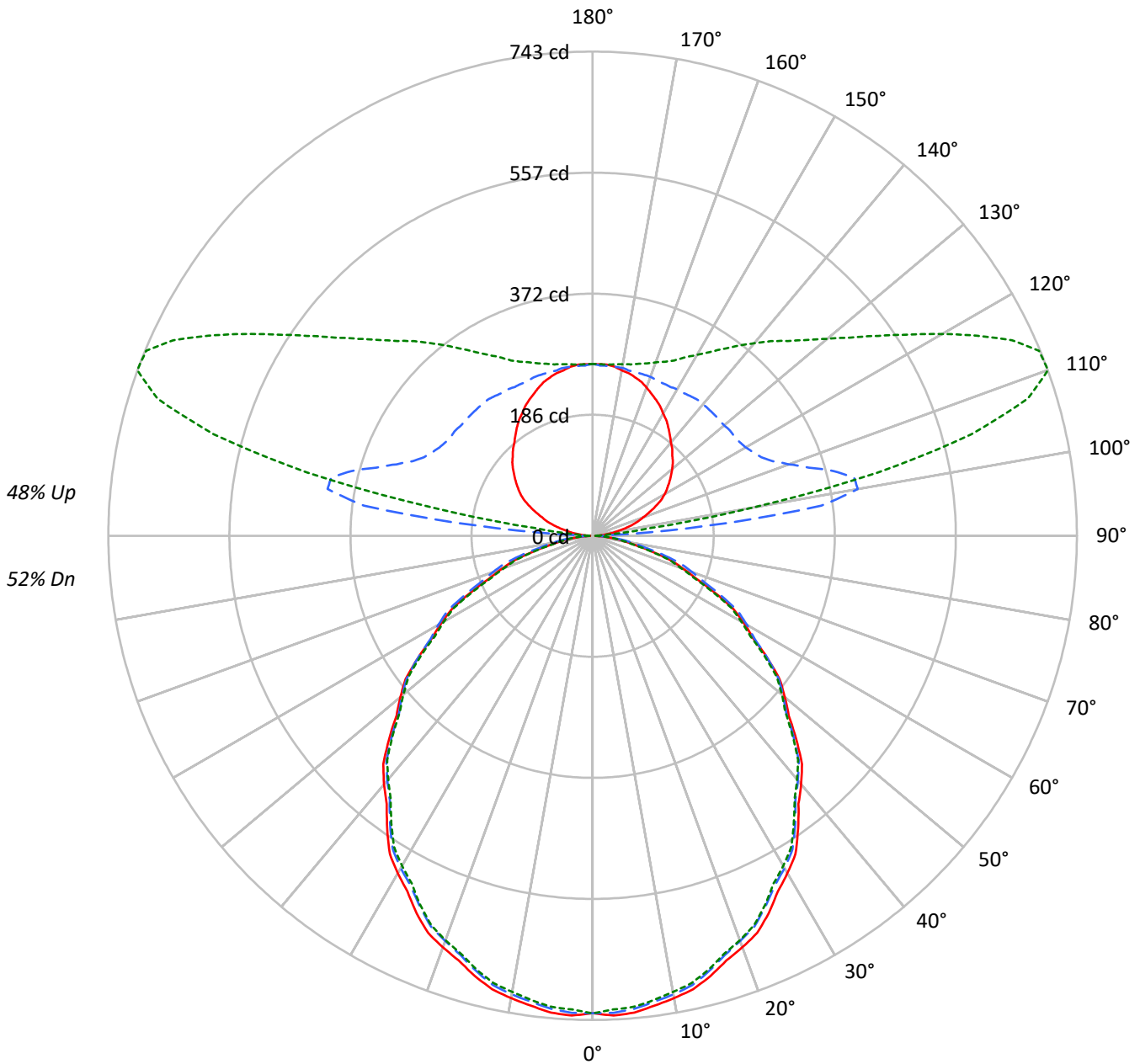
Lumens per Lamp: N/A  
Luminaire Lumens: 3575.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 29.8  
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52																			
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	52	50	49	44																			
2	90	82	76	71	83	76	71	67	65	61	58	55	52	50	45	43	42	37																			
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	40	38	36	32																			
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	31	27																			
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	33	29	27	24																			
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	30	26	24	21																			
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21	18																			
8	54	42	34	29	50	39	32	27	34	29	25	29	25	22	25	21	19	16																			
9	51	38	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15	13																			

**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	1.9
10°-20°	194.8	5.4
20°-30°	288.9	8.1
30°-40°	338.1	9.5
40°-50°	336.6	9.4
50°-60°	290.7	8.1
60°-70°	209.2	5.9
70°-80°	109.7	3.1
80°-90°	27.8	0.8
90°-100°	104.9	2.9
100°-110°	364.9	10.2
110°-120°	353.5	9.9
120°-130°	277.3	7.8
130°-140°	219.5	6.1
140°-150°	169.4	4.7
150°-160°	121.4	3.4
160°-170°	74.3	2.1
170°-180°	25.1	0.7
0°-30°	552.7	15.5
0°-40°	890.8	24.9
0°-60°	1518.0	42.5
0°-90°	1864.8	52.2
90°-120°	823.3	23.0
90°-150°	1489.4	41.7
90°-180°	1710.0	47.8
0°-180°	3575.0	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°	4	6	6	4	2	3
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°	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°	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)