

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: P845084

Luminaire Tested: **SQ4P-PP3-075U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845084  
REPORT IS A COMBINATION OF REPORTS P700227 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-075U-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**

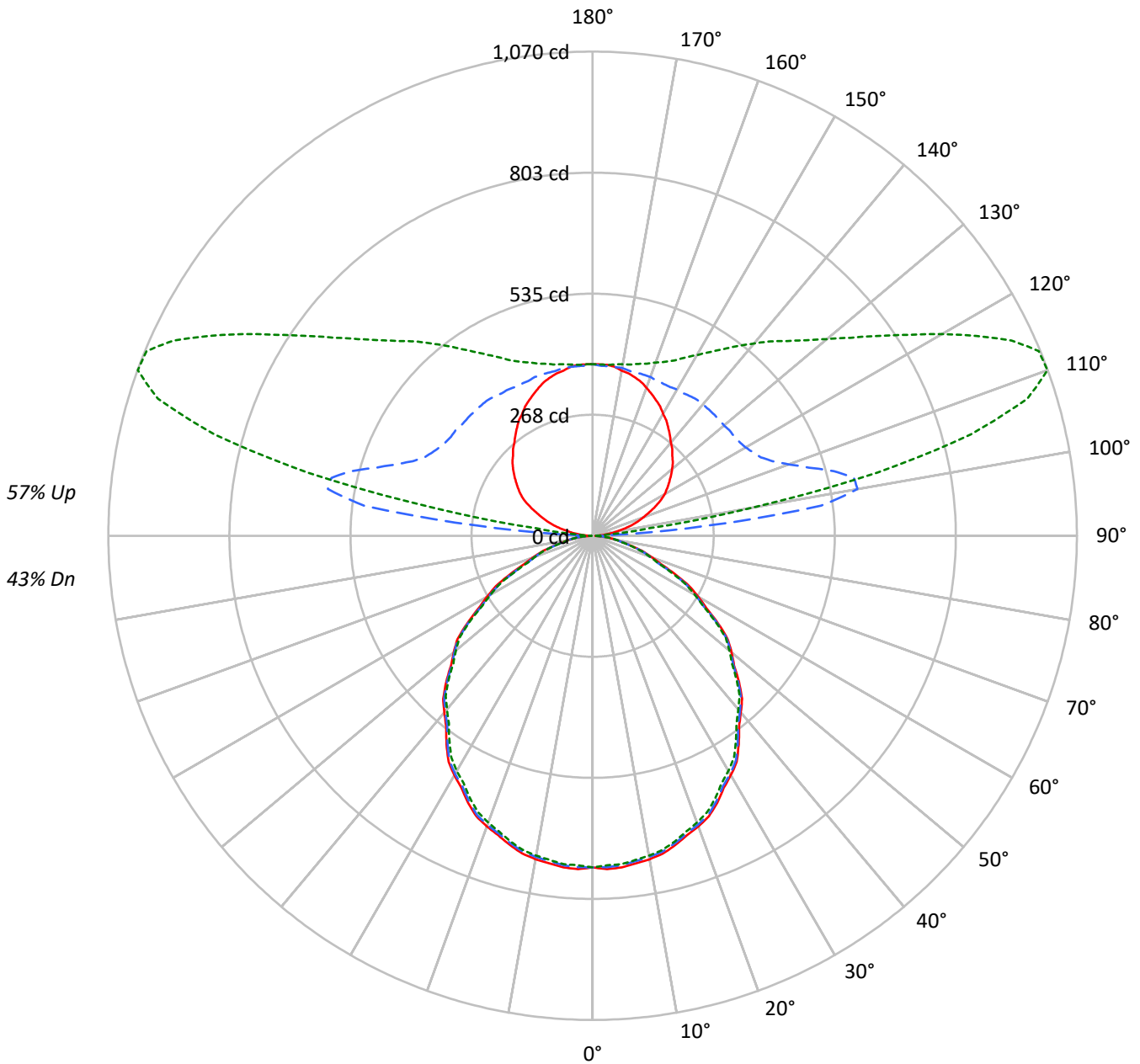
Lumens per Lamp: N/A  
Luminaire Lumens: 4337.3 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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					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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43								
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37								
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31								
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26								
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23								
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20								
6	62	50	42	37	57	46	39	34	39	34	29	32	28	25	26	23	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	49	38	31	26	32	27	23	27	23	20	21	18	16	14								
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12								
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11								

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

	0°	45°	90°
0°	6762	6762	6762
5°	6812	6770	6746
10°	6801	6753	6723
15°	6756	6719	6681
20°	6710	6673	6622
25°	6630	6585	6520
30°	6508	6474	6392
35°	6339	6295	6215
40°	6134	6095	6026
45°	5968	5926	5868
50°	5753	5717	5661
55°	5456	5384	5342
60°	4966	4825	4801
65°	4377	4194	4178
70°	3777	3623	3623
75°	3255	3205	3158
80°	2864	2901	2827
85°	2234	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.6
10°-20°	197.9	4.6
20°-30°	296.4	6.8
30°-40°	347.7	8.0
40°-50°	348.8	8.0
50°-60°	297.5	6.9
60°-70°	194.1	4.5
70°-80°	97.4	2.2
80°-90°	27.9	0.6
90°-100°	150.9	3.5
100°-110°	525.0	12.1
110°-120°	508.6	11.7
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°	563.6	13.0
0°-40°	911.3	21.0
0°-60°	1557.6	35.9
0°-90°	1876.9	43.3
90°-120°	1184.4	27.3
90°-150°	2142.8	49.4
90°-180°	2460.0	56.7
0°-180°	4337.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	736	729	731	728	728	70
15°	707	700	703	701	700	200
25°	651	644	647	641	640	300
35°	563	557	559	552	552	352
45°	457	454	454	450	450	352
55°	339	338	335	333	332	301
65°	200	197	192	191	191	200
75°	91	91	90	89	89	99
85°	21	23	23	23	23	25
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°	732.9	732.9	732.9	732.9	732.9
2.5°	737.5	731.6	732.9	731.9	728.8
5°	735.5	728.6	731.0	728.4	728.4
7.5°	730.5	723.0	725.3	722.8	722.7
10°	725.9	718.4	720.8	718.2	717.6
12.5°	719.2	711.7	714.5	711.5	711.4
15°	707.3	700.3	703.4	700.8	699.5
17.5°	693.8	686.3	689.9	686.4	685.8
20°	683.4	675.9	679.6	674.5	674.5
22.5°	671.2	663.7	667.9	661.1	661.1
25°	651.3	643.8	646.9	641.1	640.5
27.5°	627.8	620.4	623.6	617.0	616.9
30°	610.9	604.0	607.7	600.6	600.0
32.5°	592.4	586.0	588.7	581.6	580.9
35°	562.8	557.1	558.9	552.4	551.8
37.5°	531.5	525.8	527.7	522.2	522.0
40°	509.3	505.6	506.1	501.6	500.3
42.5°	488.9	484.6	485.1	480.6	480.4
45°	457.4	454.2	454.2	449.7	449.7
47.5°	424.0	421.6	420.9	417.1	417.0
50°	400.8	399.0	398.3	395.0	394.4
52.5°	376.7	375.8	373.6	370.9	370.8
55°	339.2	337.9	334.7	332.7	332.1
57.5°	298.5	295.9	292.3	289.6	289.9
60°	269.1	266.6	261.5	260.2	260.2
62.5°	240.9	237.9	232.7	230.9	231.9
65°	200.5	196.7	192.1	190.8	191.4
67.5°	163.7	160.3	155.3	155.3	154.8
70°	140.0	138.1	134.3	134.3	134.3
72.5°	119.0	118.0	115.3	115.2	114.8
75°	91.3	91.3	89.9	89.2	88.6
77.5°	68.3	68.6	68.0	67.3	66.2
80°	53.9	55.3	54.6	53.9	53.2
82.5°	40.6	41.9	41.8	40.6	40.4
85°	21.1	23.0	23.2	23.2	23.2
87.5°	5.7	7.6	8.2	8.2	8.7
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)