

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: P845060

Luminaire Tested: **SQ4P-PP3-025U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845060  
REPORT IS A COMBINATION OF REPORTS P700171 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-025U-050D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

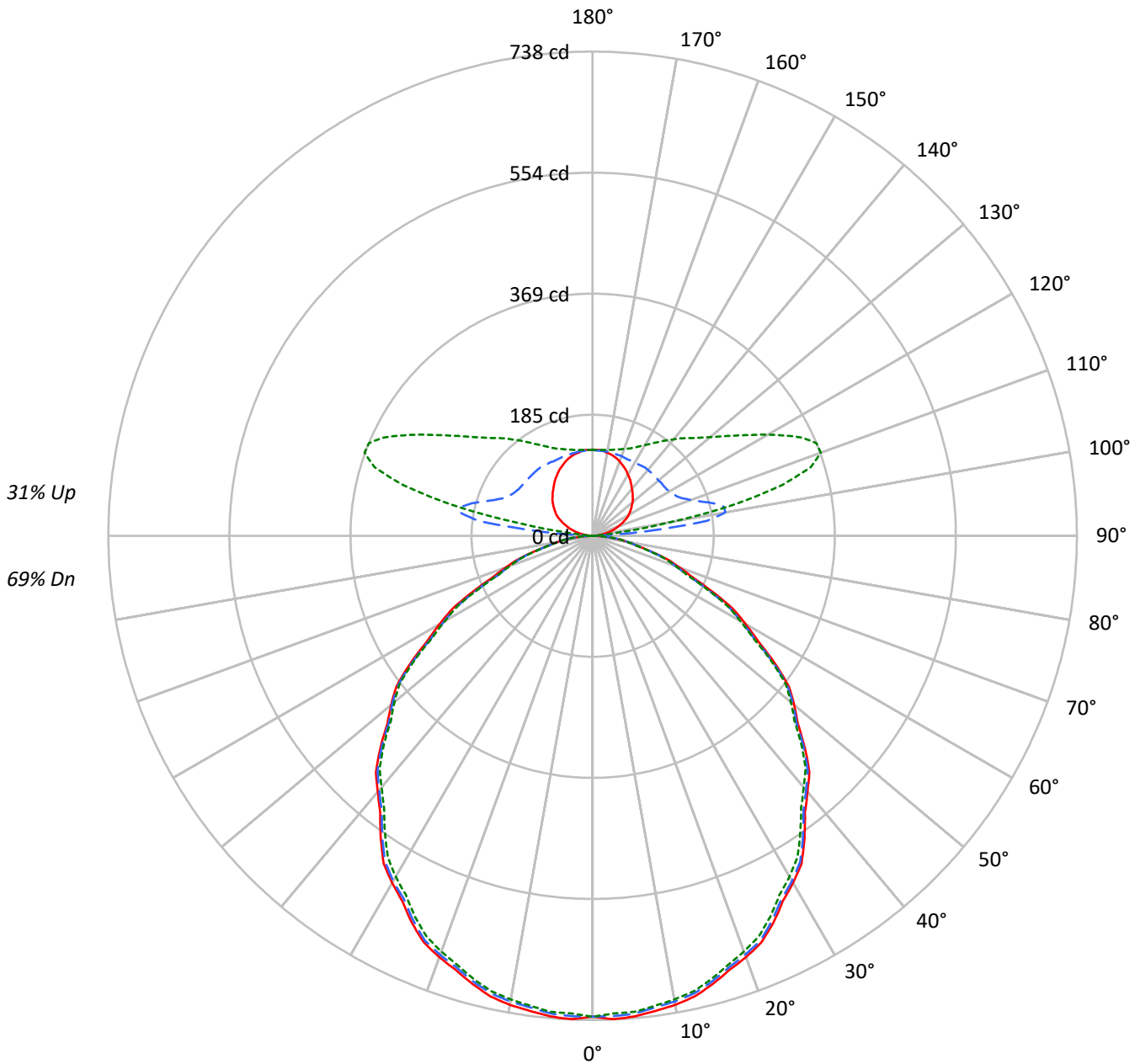
Lumens per Lamp: N/A  
Luminaire Lumens: 2727.3 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 23.8  
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69																			
1	102	98	94	91	96	93	89	86	83	80	78	74	72	70	65	64	63	59																			
2	93	86	80	74	88	81	76	71	73	69	65	65	62	59	58	55	53	49																			
3	85	76	68	62	80	72	65	60	64	59	55	58	54	50	51	48	45	42																			
4	78	67	59	53	74	64	57	51	57	52	47	52	47	43	46	42	39	36																			
5	72	60	52	46	68	57	50	44	52	45	41	46	41	37	42	38	34	32																			
6	66	54	46	40	62	51	44	38	47	40	36	42	37	33	38	34	30	28																			
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	25																			
8	57	44	37	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22																			
9	53	41	33	28	50	39	32	27	36	29	25	32	27	24	29	25	22	20																			
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18																			

**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	2.5
10°-20°	197.9	7.3
20°-30°	296.4	10.9
30°-40°	347.7	12.7
40°-50°	348.8	12.8
50°-60°	297.5	10.9
60°-70°	194.1	7.1
70°-80°	97.4	3.6
80°-90°	27.3	1.0
90°-100°	52.2	1.9
100°-110°	181.6	6.7
110°-120°	175.9	6.5
120°-130°	138.0	5.1
130°-140°	109.2	4.0
140°-150°	84.3	3.1
150°-160°	60.4	2.2
160°-170°	37.0	1.4
170°-180°	12.5	0.5
0°-30°	563.6	20.7
0°-40°	911.3	33.4
0°-60°	1557.6	57.1
0°-90°	1876.3	68.8
90°-120°	409.7	15.0
90°-150°	741.2	27.2
90°-180°	851.0	31.2
0°-180°	2727.3	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°	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°	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°	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)