

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: P845133

Luminaire Tested: **SQ4P-PP3-150U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845133  
REPORT IS A COMBINATION OF REPORTS P700143 AND P700248  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-150U-050D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

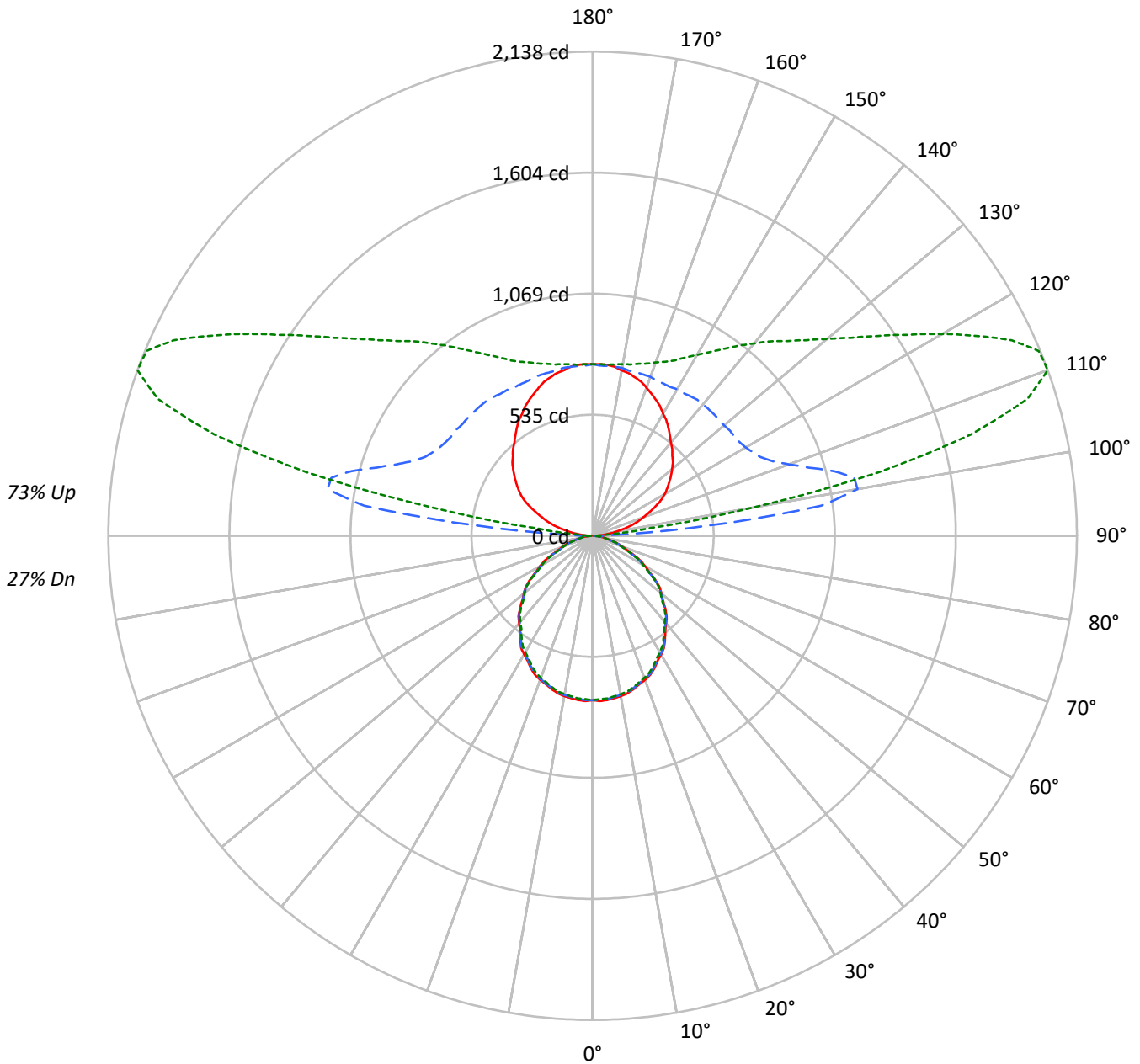
Lumens per Lamp: N/A  
Luminaire Lumens: 6778.2 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59.8  
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

TEST NUMBER: P845133

CATALOG NUMBER: SQ4P-PP3-150U-050D-B40-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845133

CATALOG NUMBER: SQ4P-PP3-150U-050D-B40-1D-UNV

**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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27																			
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23																			
2	85	78	72	67	75	70	65	60	54	51	48	41	38	37	28	27	25	20																			
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17																			
4	71	60	53	47	63	54	48	43	43	38	34	32	29	27	22	20	19	14																			
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	13																			
6	59	48	40	35	53	43	36	32	34	29	26	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10																			
8	51	39	32	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9																			
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8																			
10	44	32	25	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7																			

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

	0°	45°	90°
0°	6696	6696	6696
5°	6745	6704	6681
10°	6735	6687	6657
15°	6690	6654	6616
20°	6645	6608	6559
25°	6566	6521	6457
30°	6445	6411	6329
35°	6277	6233	6155
40°	6075	6036	5968
45°	5909	5868	5810
50°	5697	5661	5605
55°	5403	5331	5290
60°	4918	4777	4755
65°	4336	4152	4137
70°	3742	3588	3588
75°	3223	3176	3126
80°	2837	2874	2800
85°	2212	2435	2435



TEST NUMBER: P845133

CATALOG NUMBER: SQ4P-PP3-150U-050D-B40-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	1.0
10°-20°	196.0	2.9
20°-30°	293.5	4.3
30°-40°	344.3	5.1
40°-50°	345.4	5.1
50°-60°	294.6	4.3
60°-70°	192.2	2.8
70°-80°	96.4	1.4
80°-90°	28.5	0.4
90°-100°	301.6	4.5
100°-110°	1049.5	15.5
110°-120°	1016.6	15.0
120°-130°	797.5	11.8
130°-140°	631.2	9.3
140°-150°	487.1	7.2
150°-160°	349.2	5.2
160°-170°	213.6	3.2
170°-180°	72.2	1.1
0°-30°	558.1	8.2
0°-40°	902.4	13.3
0°-60°	1542.4	22.8
0°-90°	1859.6	27.4
90°-120°	2367.8	34.9
90°-150°	4283.6	63.2
90°-180°	4919.0	72.6
0°-180°	6778.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	722	724	721	721	69
15°	700	694	697	694	693	198
25°	645	638	641	635	634	297
35°	557	552	553	547	546	348
45°	453	450	450	445	445	349
55°	336	335	331	330	329	298
65°	199	195	190	189	190	198
75°	90	90	89	88	88	98
85°	21	23	23	23	23	25
90°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



TEST NUMBER: P845133

CATALOG NUMBER: SQ4P-PP3-150U-050D-B40-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.8	725.8	725.8	725.8	725.8
2.5°	730.4	724.5	725.8	724.8	721.8
5°	728.3	721.6	723.9	721.4	721.4
7.5°	723.4	715.9	718.3	715.7	715.7
10°	718.9	711.4	713.8	711.2	710.6
12.5°	712.3	704.8	707.6	704.6	704.5
15°	700.4	693.5	696.6	693.9	692.7
17.5°	687.1	679.6	683.2	679.7	679.1
20°	676.8	669.3	673.0	668.0	668.0
22.5°	664.7	657.2	661.4	654.7	654.7
25°	645.0	637.5	640.6	634.8	634.3
27.5°	621.8	614.4	617.6	611.0	610.9
30°	605.0	598.1	601.8	594.8	594.1
32.5°	586.7	580.3	583.0	575.9	575.2
35°	557.3	551.7	553.4	547.0	546.5
37.5°	526.3	520.7	522.6	517.1	516.9
40°	504.4	500.7	501.2	496.7	495.5
42.5°	484.1	479.9	480.4	475.9	475.7
45°	452.9	449.7	449.7	445.3	445.3
47.5°	419.9	417.5	416.8	413.0	412.9
50°	396.9	395.1	394.4	391.2	390.5
52.5°	373.0	372.1	370.0	367.3	367.2
55°	335.9	334.6	331.4	329.5	328.9
57.5°	295.6	293.0	289.5	286.7	287.1
60°	266.5	264.0	258.9	257.7	257.7
62.5°	238.6	235.6	230.4	228.7	229.7
65°	198.6	194.8	190.2	189.0	189.5
67.5°	162.1	158.7	153.8	153.8	153.3
70°	138.7	136.7	133.0	133.0	133.0
72.5°	117.8	116.9	114.2	114.1	113.7
75°	90.4	90.4	89.1	88.4	87.7
77.5°	67.6	67.9	67.3	66.7	65.5
80°	53.4	54.8	54.1	53.4	52.7
82.5°	40.2	41.5	41.4	40.2	40.0
85°	20.9	22.8	23.0	23.0	23.0
87.5°	5.6	7.6	8.1	8.1	8.6
90°	11.3	17.0	17.0	11.3	5.6
92.5°	28.3	84.8	79.2	33.9	28.3
95°	50.9	175.3	509.0	130.0	79.2
97.5°	79.2	198.0	1018.1	463.8	248.9
100°	107.5	209.2	1187.8	1114.2	718.3
102.5°	141.4	226.3	1182.1	1566.7	1289.5
105°	175.3	248.9	1102.9	1860.8	1730.7



TEST NUMBER: P845133

CATALOG NUMBER: SQ4P-PP3-150U-050D-B40-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)