

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P523677

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523677  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4447.2 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

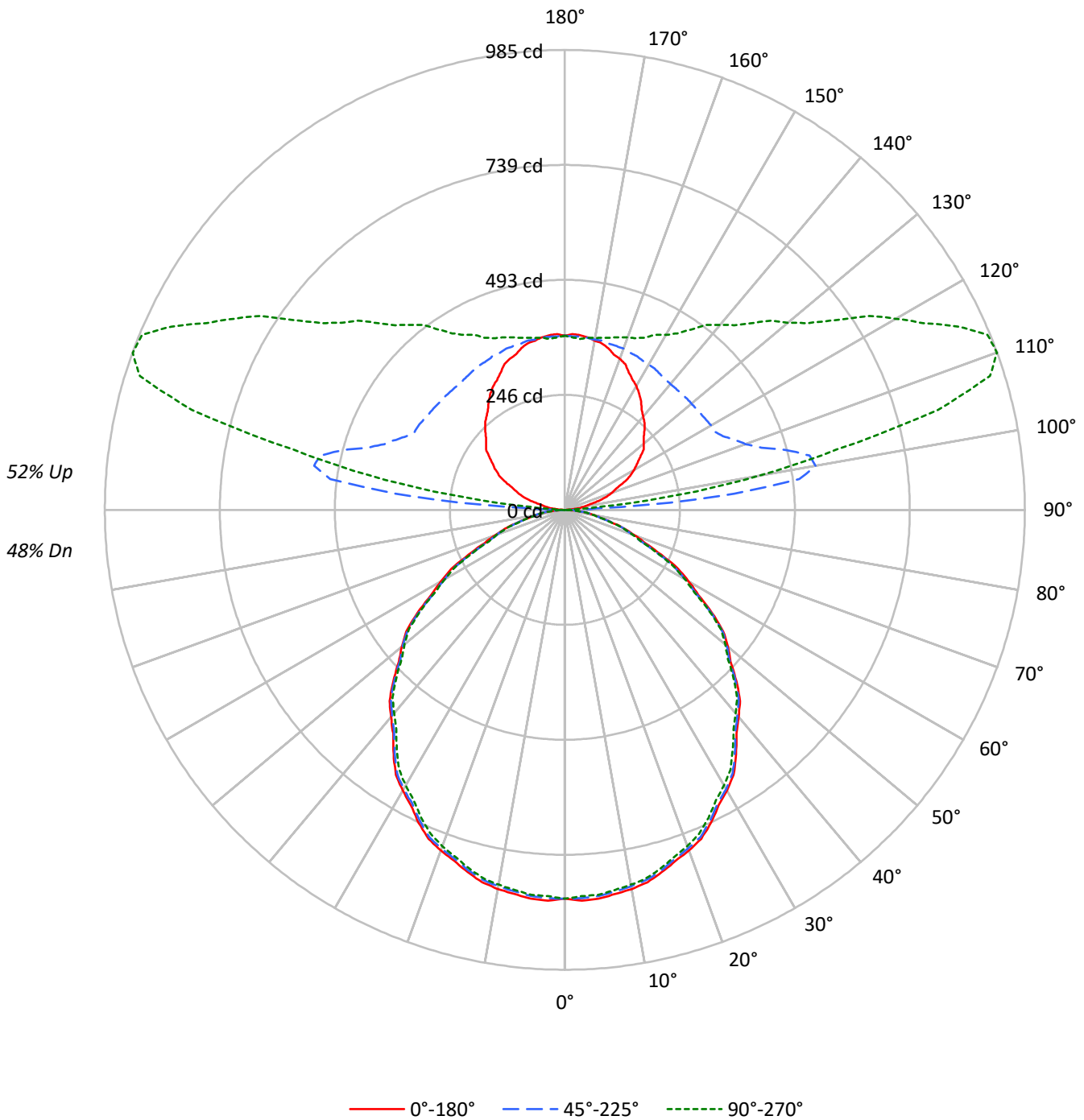
Input Watts (W): 36.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P523677

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523677

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)

**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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39				34	
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	36	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

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

	0°	45°	90°
0°	7683	7683	7683
5°	7739	7692	7665
10°	7725	7671	7637
15°	7675	7633	7591
20°	7624	7581	7524
25°	7533	7481	7407
30°	7394	7355	7261
35°	7201	7151	7061
40°	6970	6926	6847
45°	6780	6731	6665
50°	6537	6495	6432
55°	6198	6116	6069
60°	5643	5480	5455
65°	4971	4764	4748
70°	4292	4114	4114
75°	3693	3643	3590
80°	3257	3294	3220
85°	2551	2784	2784



TEST NUMBER: P523677

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.8
10°-20°	224.8	5.1
20°-30°	336.8	7.6
30°-40°	395.0	8.9
40°-50°	396.2	8.9
50°-60°	338.0	7.6
60°-70°	220.4	5.0
70°-80°	110.6	2.5
80°-90°	30.6	0.7
90°-100°	169.9	3.8
100°-110°	483.4	10.9
110°-120°	463.2	10.4
120°-130°	366.6	8.2
130°-140°	294.2	6.6
140°-150°	230.4	5.2
150°-160°	168.5	3.8
160°-170°	104.4	2.3
170°-180°	35.4	0.8
0°-30°	640.3	14.4
0°-40°	1035.3	23.3
0°-60°	1769.5	39.8
0°-90°	2131.1	47.9
90°-120°	1116.5	25.1
90°-150°	2007.7	45.1
90°-180°	2316.0	52.1
0°-180°	4447.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	836	828	830	828	828	79
15°	804	796	799	796	795	227
25°	740	731	735	728	728	340
35°	639	633	635	628	627	399
45°	520	516	516	511	511	400
55°	385	384	380	378	377	342
65°	228	223	218	217	218	227
75°	104	104	102	101	101	112
85°	24	26	26	26	26	28
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

TEST NUMBER: P523677

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.7	832.7	832.7	832.7	832.7
2.5°	837.9	831.1	832.7	831.4	828.0
5°	835.6	827.7	830.5	827.6	827.6
7.5°	829.9	821.3	824.1	821.1	821.0
10°	824.6	816.1	818.8	815.9	815.2
12.5°	817.0	808.5	811.8	808.3	808.1
15°	803.5	795.6	799.1	796.1	794.7
17.5°	788.1	779.6	783.8	779.7	779.1
20°	776.5	767.9	772.1	766.3	766.3
22.5°	762.5	753.9	758.7	751.1	751.1
25°	740.0	731.4	734.9	728.3	727.6
27.5°	713.3	704.9	708.5	701.0	700.9
30°	694.0	686.2	690.4	682.3	681.6
32.5°	673.0	665.7	668.8	660.7	660.0
35°	639.3	632.9	634.9	627.6	626.9
37.5°	603.8	597.2	599.6	593.3	593.0
40°	578.7	574.4	575.1	569.9	568.5
42.5°	555.4	550.5	551.1	546.0	545.7
45°	519.6	516.0	515.9	510.8	510.8
47.5°	481.6	478.9	478.1	473.9	473.8
50°	455.4	453.2	452.5	448.8	448.1
52.5°	427.9	426.9	424.4	421.4	421.2
55°	385.3	383.9	380.2	378.0	377.3
57.5°	339.1	336.2	332.0	328.8	329.4
60°	305.8	302.9	297.0	295.6	295.6
62.5°	273.7	270.2	264.3	262.3	263.4
65°	227.7	223.4	218.2	216.8	217.5
67.5°	185.9	182.1	176.5	176.4	175.9
70°	159.1	156.9	152.5	152.5	152.5
72.5°	135.2	134.2	130.9	130.9	130.3
75°	103.6	103.6	102.2	101.4	100.7
77.5°	77.6	77.9	77.2	76.5	75.2
80°	61.3	62.7	62.0	61.3	60.6
82.5°	46.1	47.5	47.4	46.1	46.0
85°	24.1	26.2	26.3	26.3	26.3
87.5°	6.4	8.7	9.3	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6



TEST NUMBER: P523677

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)