

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: P561832

Luminaire Tested: **SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561832  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

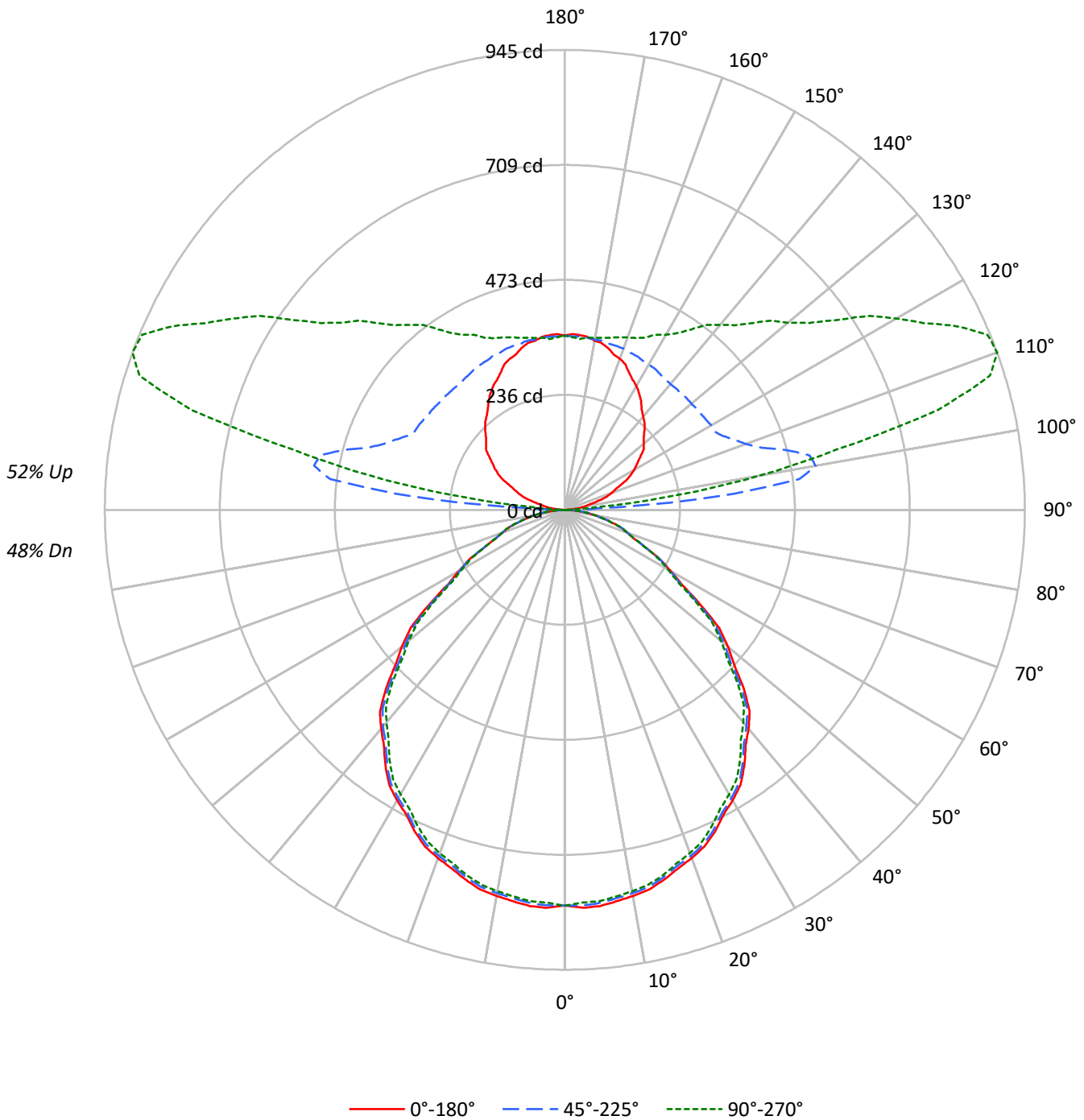
Lumens per Lamp: N/A  
Luminaire Lumens: 4255.8 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 36.5  
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: P561832  
CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P561832

CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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	67	67	67	54	54	54	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	76	70	66	64	60	57	53	50	48	43	41	39	35		
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26		
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22		
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13		

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

	0°	45°	90°
0°	7504	7504	7504
5°	7571	7513	7474
10°	7547	7495	7455
15°	7514	7467	7427
20°	7477	7429	7373
25°	7423	7373	7288
30°	7343	7291	7187
35°	7235	7172	7070
40°	7070	6994	6867
45°	6782	6664	6527
50°	6274	6123	6003
55°	5475	5352	5239
60°	4615	4576	4486
65°	3991	4006	3975
70°	3666	3685	3685
75°	3522	3522	3547
80°	3310	3347	3310
85°	2668	2964	2964



TEST NUMBER: P561832

CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.8
10°-20°	220.0	5.2
20°-30°	331.9	7.8
30°-40°	395.5	9.3
40°-50°	389.9	9.2
50°-60°	298.0	7.0
60°-70°	184.4	4.3
70°-80°	104.7	2.5
80°-90°	31.9	0.7
90°-100°	163.0	3.8
100°-110°	463.9	10.9
110°-120°	444.5	10.4
120°-130°	351.8	8.3
130°-140°	282.4	6.6
140°-150°	221.1	5.2
150°-160°	161.8	3.8
160°-170°	100.2	2.4
170°-180°	34.0	0.8
0°-30°	628.9	14.8
0°-40°	1024.3	24.1
0°-60°	1712.2	40.2
0°-90°	2033.1	47.8
90°-120°	1071.5	25.2
90°-150°	1926.7	45.3
90°-180°	2223.0	52.2
0°-180°	4255.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	818	809	811	808	807	78
15°	787	778	782	779	778	222
25°	729	720	724	717	716	336
35°	642	635	637	628	628	401
45°	520	513	511	502	500	398
55°	340	335	333	327	326	305
65°	183	182	184	182	182	185
75°	99	99	99	100	100	104
85°	25	27	28	28	28	29
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

TEST NUMBER: P561832

CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	818.3	811.2	813.3	811.5	807.7
5°	817.5	808.6	811.2	808.4	807.0
7.5°	811.2	802.4	805.0	802.2	801.4
10°	805.6	797.4	800.0	797.2	795.8
12.5°	799.4	790.7	793.8	790.4	789.1
15°	786.7	778.5	781.8	778.9	777.6
17.5°	772.7	763.9	767.2	763.9	762.2
20°	761.5	753.2	756.6	751.6	750.9
22.5°	749.1	740.9	744.2	737.6	737.5
25°	729.2	720.3	724.3	716.6	715.9
27.5°	705.6	697.3	700.7	692.8	692.0
30°	689.3	681.1	684.4	676.0	674.6
32.5°	670.8	663.1	665.9	657.5	656.7
35°	642.4	634.8	636.8	628.3	627.7
37.5°	610.0	603.2	604.3	595.0	594.3
40°	587.0	580.2	580.7	570.9	570.2
42.5°	561.8	555.0	554.4	544.6	543.9
45°	519.8	512.9	510.7	501.5	500.2
47.5°	471.9	465.0	460.8	453.3	452.4
50°	437.1	430.3	426.6	420.3	418.2
52.5°	399.6	392.7	389.6	383.8	381.8
55°	340.4	335.0	332.7	327.1	325.7
57.5°	284.3	280.6	279.9	274.4	273.9
60°	250.1	248.0	248.0	243.1	243.1
62.5°	220.9	219.4	220.5	217.3	216.7
65°	182.8	181.5	183.5	182.1	182.1
67.5°	152.7	152.7	154.0	153.4	153.4
70°	135.9	135.9	136.6	136.6	136.6
72.5°	120.8	120.2	122.0	122.0	121.5
75°	98.8	98.8	98.8	99.5	99.5
77.5°	76.9	77.1	77.6	77.5	76.9
80°	62.3	63.0	63.0	62.3	62.3
82.5°	47.8	48.5	48.5	48.3	47.8
85°	25.2	26.6	28.0	28.0	28.0
87.5°	7.3	9.5	11.2	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

TEST NUMBER: P561832

CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)