

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: P521364

Luminaire Tested: **SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521364  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

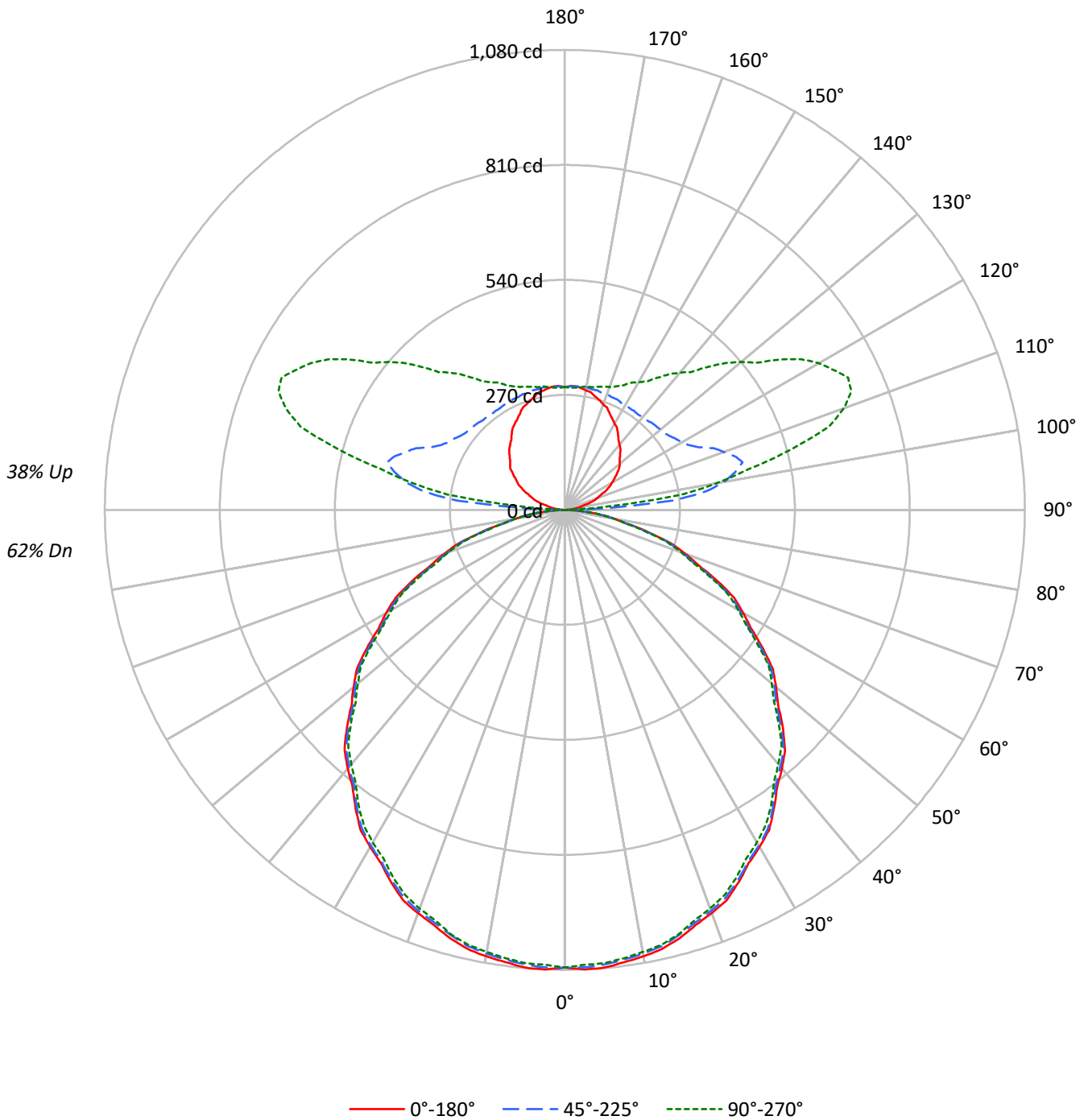
Lumens per Lamp: N/A  
Luminaire Lumens: 4933.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.9  
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: P521364

CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521364

CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)

**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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62		
1	100	96	92	88	94	90	86	83	79	76	74	69	67	65	59	58	56	52		
2	91	83	77	72	85	78	73	68	69	64	61	60	57	54	52	49	47	43		
3	83	73	66	60	77	69	62	57	61	55	51	53	49	45	46	43	40	36		
4	76	65	56	50	71	61	54	48	54	48	43	47	42	39	41	37	34	31		
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	37	33	30	27		
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23		
7	59	47	38	33	55	44	37	31	39	33	28	35	30	26	30	26	23	21		
8	55	42	34	29	51	40	33	28	36	30	25	32	27	23	28	24	21	18		
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17		
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15		

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

	0°	45°	90°
0°	9916	9916	9916
5°	9992	9925	9898
10°	9974	9917	9878
15°	9945	9877	9857
20°	9893	9843	9783
25°	9823	9781	9697
30°	9737	9704	9607
35°	9641	9595	9515
40°	9550	9488	9389
45°	9441	9362	9269
50°	9291	9218	9102
55°	9135	9021	8906
60°	8920	8770	8676
65°	8643	8420	8311
70°	8128	7907	7826
75°	7258	7112	7001
80°	6004	6057	6004
85°	4308	4848	5060



TEST NUMBER: P521364

CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	2.1
10°-20°	291.3	5.9
20°-30°	440.6	8.9
30°-40°	530.5	10.8
40°-50°	551.0	11.2
50°-60°	500.0	10.1
60°-70°	381.4	7.7
70°-80°	212.5	4.3
80°-90°	55.8	1.1
90°-100°	148.7	3.0
100°-110°	359.5	7.3
110°-120°	383.4	7.8
120°-130°	310.5	6.3
130°-140°	240.4	4.9
140°-150°	183.4	3.7
150°-160°	132.8	2.7
160°-170°	81.8	1.7
170°-180°	27.7	0.6
0°-30°	833.7	16.9
0°-40°	1364.2	27.7
0°-60°	2415.2	49.0
0°-90°	3064.8	62.1
90°-120°	891.6	18.1
90°-150°	1626.0	33.0
90°-180°	1868.0	37.9
0°-180°	4933.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1079	1069	1072	1070	1069	102
15°	1041	1029	1034	1032	1032	294
25°	965	955	961	952	953	444
35°	856	850	852	843	845	536
45°	724	717	718	708	710	557
55°	568	565	561	554	554	507
65°	396	392	386	380	381	390
75°	204	203	200	197	196	216
85°	41	46	46	48	48	50
90°	0	0	0	0	0	2
95°	15	74	255	166	116	16
105°	57	99	432	559	552	61
115°	105	134	347	658	734	104
125°	150	172	301	523	615	134
135°	184	206	289	413	475	142
145°	218	234	284	351	378	136
155°	249	260	287	311	322	115
165°	276	280	291	295	300	78
175°	292	290	292	289	288	28
180°	288	288	288	288	288	

TEST NUMBER: P521364

CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1080.5	1072.5	1075.6	1073.1	1069.1
5°	1078.9	1068.9	1071.7	1069.7	1068.7
7.5°	1071.1	1061.2	1065.0	1062.0	1061.8
10°	1064.6	1054.7	1058.5	1055.4	1054.4
12.5°	1056.5	1045.7	1049.5	1046.5	1046.3
15°	1041.2	1029.3	1034.1	1032.0	1032.0
17.5°	1022.3	1010.5	1016.4	1012.7	1011.1
20°	1007.6	996.7	1002.5	996.4	996.4
22.5°	992.1	981.2	986.2	979.3	979.3
25°	964.9	954.9	960.8	951.7	952.6
27.5°	935.1	926.2	931.3	922.5	922.9
30°	914.0	905.0	910.9	899.8	901.8
32.5°	892.0	883.8	887.3	877.7	878.1
35°	856.0	850.0	851.9	842.8	844.8
37.5°	818.9	811.9	813.8	804.5	806.5
40°	792.9	785.9	787.8	777.6	779.6
42.5°	765.2	759.0	760.1	750.0	752.8
45°	723.6	716.7	717.5	708.4	710.4
47.5°	679.1	673.5	672.3	664.0	665.8
50°	647.3	643.3	642.2	633.1	634.1
52.5°	615.6	612.4	609.7	601.4	604.0
55°	567.9	564.9	560.8	553.7	553.7
57.5°	518.5	515.5	510.3	503.2	505.2
60°	483.4	480.5	475.3	468.2	470.2
62.5°	448.4	445.5	439.5	433.2	434.4
65°	395.9	391.9	385.7	379.7	380.7
67.5°	339.5	335.8	330.6	324.7	325.9
70°	301.3	298.3	293.1	288.1	290.1
72.5°	261.4	258.4	254.0	251.4	251.0
75°	203.6	202.6	199.5	197.4	196.4
77.5°	148.8	150.2	146.6	145.7	145.5
80°	113.0	116.0	114.0	114.0	113.0
82.5°	81.2	85.8	84.7	84.7	84.5
85°	40.7	45.7	45.8	47.8	47.8
87.5°	11.4	16.2	18.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.3	94.8	46.1	31.3
95°	14.7	74.4	254.8	165.7	116.1
97.5°	26.0	82.4	335.6	323.3	277.6
100°	34.8	87.4	380.1	401.3	363.6
102.5°	43.1	91.9	409.5	466.1	443.8
105°	57.4	99.3	432.1	559.0	551.8
107.5°	71.5	108.0	418.7	633.5	650.4
110°	81.3	115.3	397.2	665.6	697.3

TEST NUMBER: P521364

CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.1	122.7	378.2	673.5	727.6
115°	105.1	134.4	347.1	658.1	734.0
117.5°	119.0	146.7	328.9	622.7	711.6
120°	128.3	154.0	317.2	594.9	688.1
122.5°	138.1	161.9	309.8	566.5	658.3
125°	149.7	172.4	301.3	523.4	614.8
127.5°	161.2	182.6	295.3	486.8	567.1
130°	168.1	189.0	293.3	461.4	540.2
132.5°	174.4	196.3	290.4	443.0	509.9
135°	183.9	205.5	289.1	412.7	474.8
137.5°	193.0	214.6	284.8	392.2	439.0
140°	199.8	219.6	284.8	377.4	420.5
142.5°	206.7	226.4	282.3	364.6	400.9
145°	217.6	233.7	283.6	350.8	378.3
147.5°	227.7	243.4	282.8	334.9	357.6
150°	234.1	247.8	284.8	328.0	345.9
152.5°	240.9	254.2	284.3	320.6	336.6
155°	249.3	260.1	287.2	310.7	322.1
157.5°	259.5	268.7	286.6	306.9	313.6
160°	263.4	271.2	289.1	302.0	306.8
162.5°	269.8	276.6	288.1	300.5	303.4
165°	275.6	279.8	290.9	295.3	299.5
167.5°	282.8	285.6	290.2	294.9	295.1
170°	284.8	286.6	292.1	291.6	294.6
172.5°	288.2	289.5	290.7	292.0	290.2
175°	291.5	290.3	291.5	289.0	288.5
177.5°	290.9	290.9	289.9	288.9	286.5
180°	288.5	288.5	288.5	288.5	288.5

(END OF REPORT)