

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: P562248

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562248  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 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: 5350.1 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

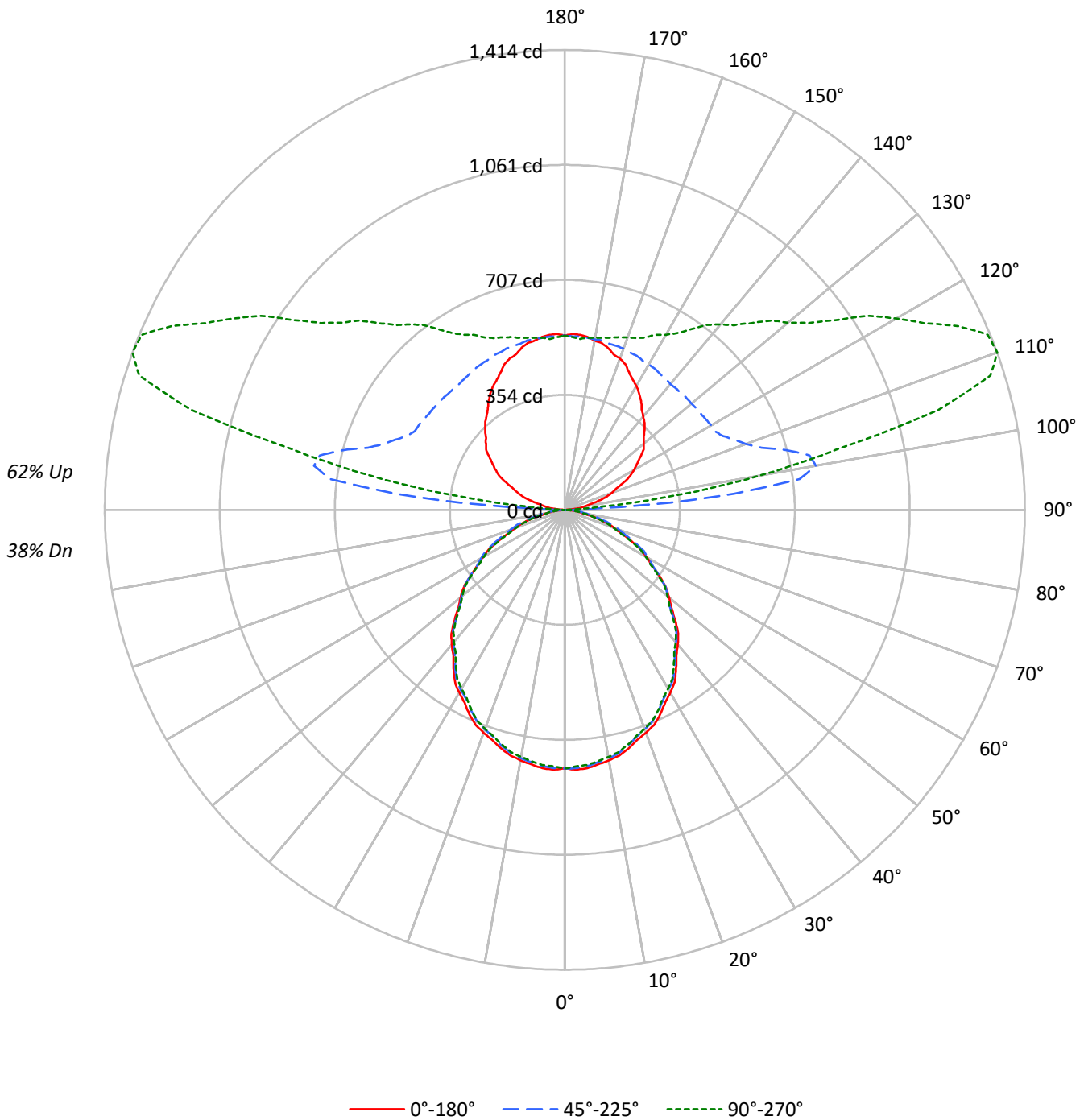
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32				
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				
3	79	70	63	57	71	64	57	53	52	48	44	41	38	35	31	29	27	23				
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13				
8	52	40	33	27	47	37	30	26	31	25	22	25	21	18	19	16	14	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10				

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

	0°	45°	90°
0°	7336	7336	7336
5°	7383	7325	7292
10°	7324	7265	7226
15°	7247	7167	7139
20°	7160	7050	7036
25°	7060	6932	6910
30°	6911	6807	6762
35°	6714	6619	6580
40°	6505	6404	6378
45°	6253	6169	6142
50°	5993	5942	5902
55°	5714	5714	5623
60°	5364	5467	5274
65°	4910	5154	4788
70°	4327	4742	4214
75°	3697	4246	3597
80°	2864	3570	2901
85°	1853	2742	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	1.4
10°-20°	211.4	4.0
20°-30°	313.5	5.9
30°-40°	366.9	6.9
40°-50°	365.2	6.8
50°-60°	315.4	5.9
60°-70°	227.0	4.2
70°-80°	119.1	2.2
80°-90°	29.5	0.6
90°-100°	244.1	4.6
100°-110°	694.5	13.0
110°-120°	665.4	12.4
120°-130°	526.6	9.8
130°-140°	422.7	7.9
140°-150°	330.9	6.2
150°-160°	242.1	4.5
160°-170°	150.0	2.8
170°-180°	50.9	1.0
0°-30°	599.8	11.2
0°-40°	966.7	18.1
0°-60°	1647.3	30.8
0°-90°	2022.9	37.8
90°-120°	1603.9	30.0
90°-150°	2884.1	53.9
90°-180°	3327.0	62.2
0°-180°	5350.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	797	788	791	789	787	76
15°	759	749	750	749	747	214
25°	694	682	681	677	679	319
35°	596	588	588	582	584	373
45°	479	475	473	471	471	370
55°	355	354	355	350	350	317
65°	225	232	236	227	219	223
75°	104	113	119	111	101	111
85°	18	23	26	24	23	23
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	799.6	793.0	795.1	793.3	789.5
5°	797.2	788.3	790.9	788.7	787.4
7.5°	789.1	780.8	782.8	780.5	779.7
10°	781.8	773.6	775.5	772.6	771.3
12.5°	773.4	764.6	766.5	763.7	762.9
15°	758.7	749.1	750.3	748.8	747.4
17.5°	741.6	731.8	732.0	729.8	729.5
20°	729.2	719.0	718.0	715.3	716.6
22.5°	715.8	705.0	704.0	700.1	702.1
25°	693.5	681.9	680.9	676.7	678.8
27.5°	667.7	656.2	656.2	650.4	652.6
30°	648.7	637.7	638.9	631.9	634.7
32.5°	628.5	618.6	619.3	612.3	615.1
35°	596.1	587.9	587.7	582.2	584.2
37.5°	563.1	555.8	554.7	551.5	552.0
40°	540.1	533.9	531.7	529.6	529.6
42.5°	516.0	510.4	508.2	506.6	506.1
45°	479.2	475.0	472.8	471.4	470.7
47.5°	442.7	438.9	437.0	436.0	435.3
50°	417.5	414.8	414.0	411.9	411.2
52.5°	392.3	390.6	389.9	387.2	386.5
55°	355.2	354.5	355.2	350.2	349.6
57.5°	316.5	317.6	319.9	313.2	311.6
60°	290.7	293.5	296.3	288.5	285.8
62.5°	264.4	268.8	272.8	263.9	260.0
65°	224.9	231.7	236.1	226.8	219.3
67.5°	186.8	195.3	200.5	190.5	182.0
70°	160.4	170.0	175.8	165.8	156.2
72.5°	137.4	148.1	152.9	143.4	133.8
75°	103.7	113.3	119.1	111.1	100.9
77.5°	73.6	82.6	87.4	80.5	72.0
80°	53.9	63.5	67.2	61.5	54.6
82.5°	38.2	46.2	48.8	45.3	40.6
85°	17.5	23.0	25.9	24.5	23.1
87.5°	4.5	8.3	10.6	10.7	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)