

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: P562245

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562245  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

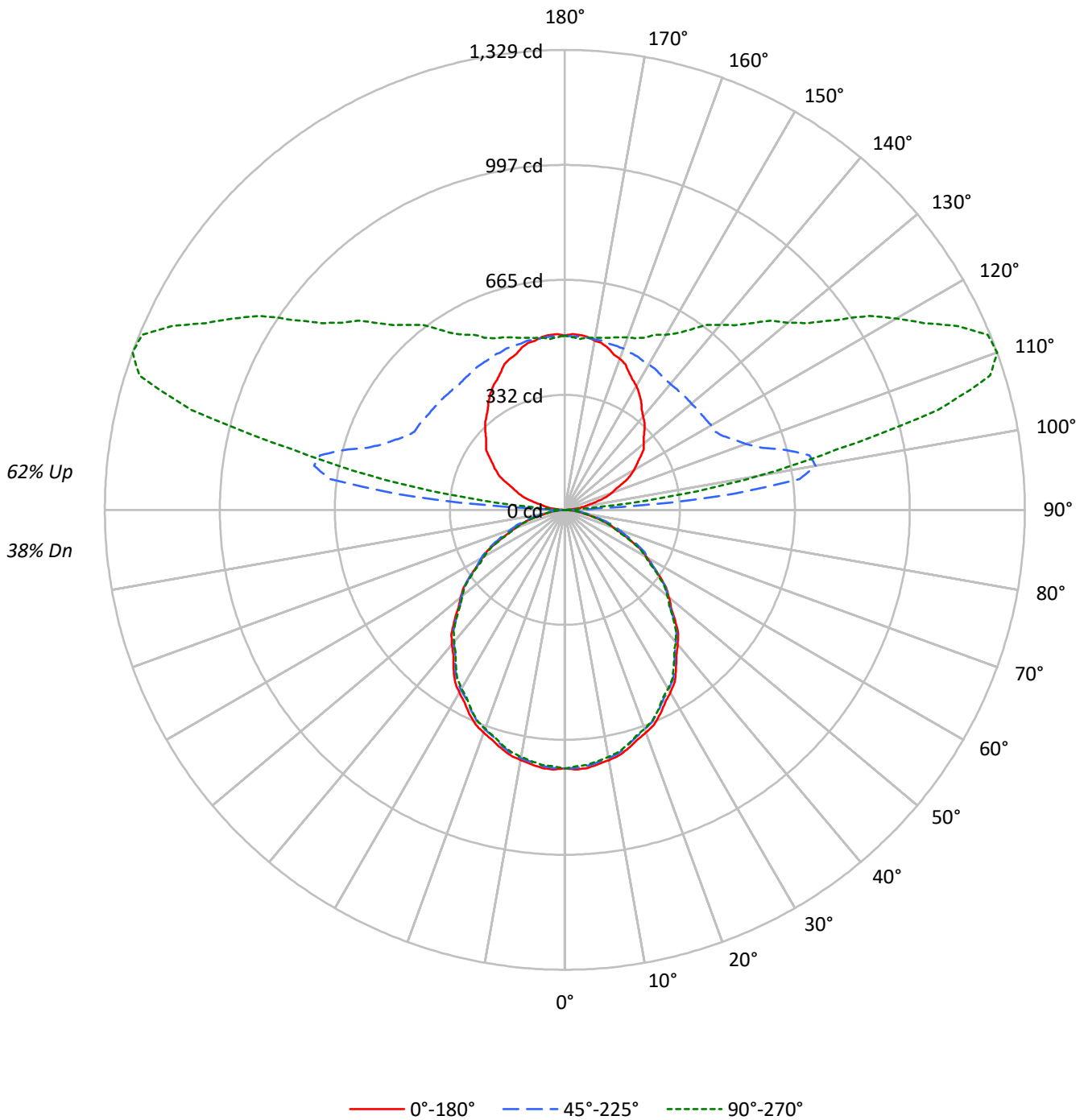
Lumens per Lamp: N/A  
Luminaire Lumens: 5026.6 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 44.2  
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	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°	6892	6892	6892
5°	6937	6882	6852
10°	6881	6826	6788
15°	6808	6733	6708
20°	6728	6623	6611
25°	6633	6512	6493
30°	6493	6394	6353
35°	6308	6219	6182
40°	6111	6016	5993
45°	5874	5797	5771
50°	5631	5583	5545
55°	5368	5368	5282
60°	5039	5137	4954
65°	4613	4842	4497
70°	4065	4456	3960
75°	3472	3989	3379
80°	2694	3358	2726
85°	1747	2583	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.4
10°-20°	198.6	4.0
20°-30°	294.6	5.9
30°-40°	344.7	6.9
40°-50°	343.2	6.8
50°-60°	296.3	5.9
60°-70°	213.3	4.2
70°-80°	111.9	2.2
80°-90°	27.7	0.6
90°-100°	229.3	4.6
100°-110°	652.5	13.0
110°-120°	625.2	12.4
120°-130°	494.8	9.8
130°-140°	397.1	7.9
140°-150°	310.9	6.2
150°-160°	227.5	4.5
160°-170°	140.9	2.8
170°-180°	47.8	1.0
0°-30°	563.5	11.2
0°-40°	908.2	18.1
0°-60°	1547.7	30.8
0°-90°	1900.6	37.8
90°-120°	1507.0	30.0
90°-150°	2709.8	53.9
90°-180°	3126.0	62.2
0°-180°	5026.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	741	743	741	740	71
15°	713	704	705	704	702	201
25°	652	641	640	636	638	300
35°	560	552	552	547	549	350
45°	450	446	444	443	442	347
55°	334	333	334	329	328	298
65°	211	218	222	213	206	209
75°	97	106	112	104	95	104
85°	16	22	24	23	22	22
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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CATALOG NUMBER: SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.2	745.1	747.0	745.4	741.8
5°	749.0	740.6	743.1	741.1	739.8
7.5°	741.4	733.6	735.4	733.3	732.5
10°	734.5	726.8	728.6	725.9	724.6
12.5°	726.6	718.4	720.2	717.5	716.7
15°	712.8	703.8	704.9	703.6	702.3
17.5°	696.7	687.6	687.8	685.7	685.4
20°	685.2	675.5	674.6	672.0	673.3
22.5°	672.5	662.3	661.5	657.8	659.6
25°	651.6	640.6	639.7	635.8	637.8
27.5°	627.4	616.6	616.6	611.1	613.1
30°	609.5	599.2	600.2	593.7	596.3
32.5°	590.5	581.2	581.8	575.3	577.9
35°	560.1	552.4	552.2	547.0	548.9
37.5°	529.0	522.2	521.1	518.1	518.6
40°	507.4	501.7	499.5	497.6	497.6
42.5°	484.8	479.5	477.4	476.0	475.5
45°	450.2	446.3	444.3	442.9	442.3
47.5°	416.0	412.4	410.6	409.6	409.0
50°	392.3	389.7	389.0	387.0	386.3
52.5°	368.6	367.0	366.3	363.8	363.2
55°	333.7	333.0	333.7	329.1	328.4
57.5°	297.4	298.4	300.5	294.3	292.8
60°	273.1	275.7	278.4	271.1	268.5
62.5°	248.4	252.5	256.3	247.9	244.3
65°	211.3	217.7	221.8	213.1	206.0
67.5°	175.5	183.4	188.4	179.0	171.0
70°	150.7	159.7	165.2	155.8	146.8
72.5°	129.1	139.2	143.6	134.7	125.7
75°	97.4	106.4	111.9	104.4	94.8
77.5°	69.1	77.6	82.1	75.6	67.7
80°	50.7	59.7	63.2	57.8	51.3
82.5°	35.9	43.4	45.8	42.5	38.2
85°	16.5	21.6	24.4	23.0	21.7
87.5°	4.2	7.8	10.0	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)