

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: P523723

Luminaire Tested: **SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523723  
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-PP3-075U-050D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 5047.6 lumens  
Efficiency: N/A  
Efficacy: 114.2 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: Semi-Indirect

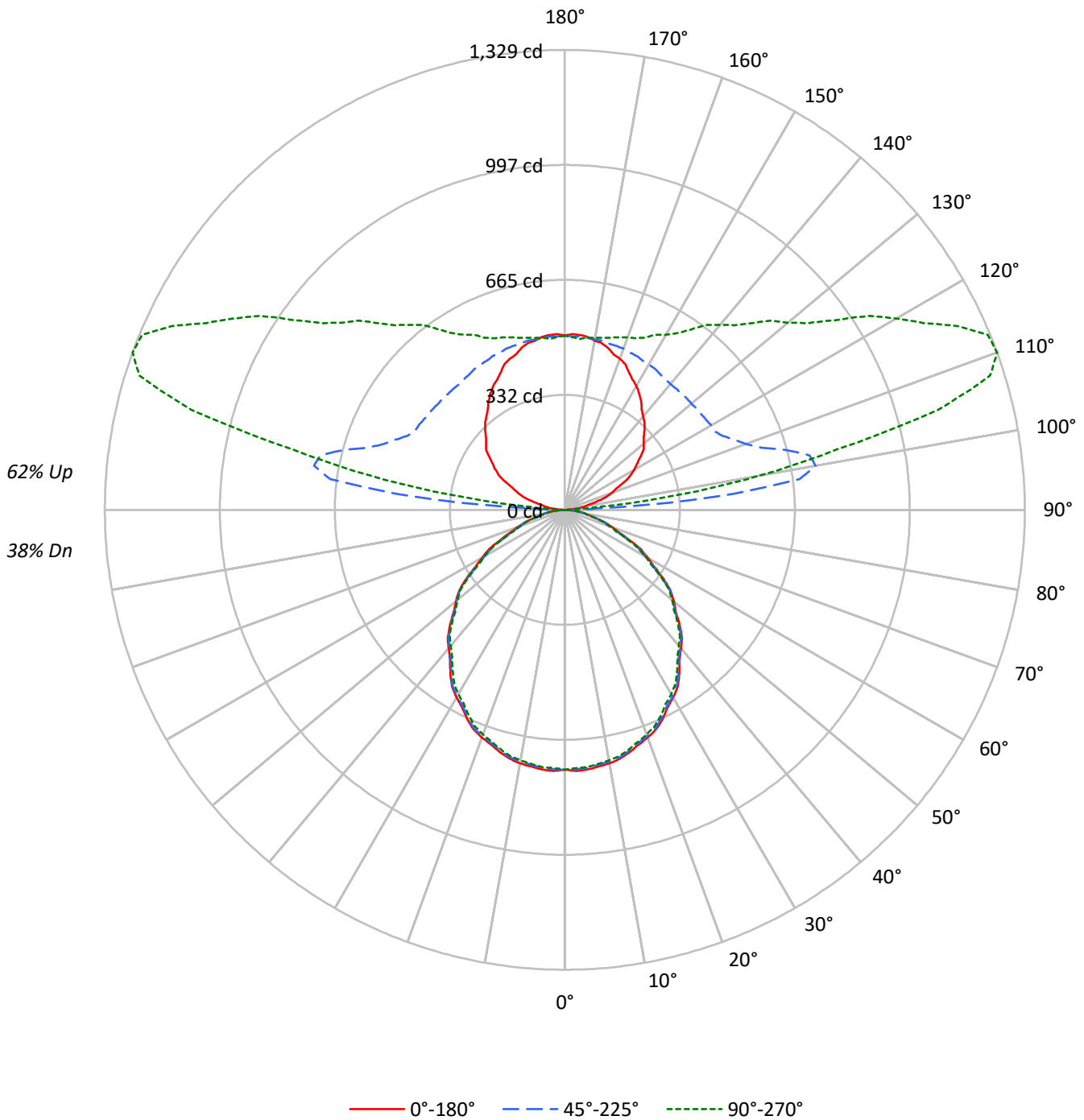
Input Watts (W): 44.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	69	79	73	68	63	59	56	53	47	44	42	35	34	33	27				
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23				
4	72	62	54	48	66	57	50	45	46	42	38	37	34	31	28	26	24	20				
5	66	55	47	41	60	50	44	38	42	36	32	33	30	27	25	23	21	17				
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14				
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12				
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10				

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

	0°	45°	90°
0°	6927	6927	6927
5°	6978	6935	6911
10°	6966	6917	6886
15°	6920	6882	6845
20°	6874	6836	6783
25°	6792	6745	6678
30°	6667	6632	6548
35°	6492	6448	6366
40°	6285	6245	6174
45°	6113	6070	6010
50°	5894	5856	5799
55°	5588	5514	5472
60°	5087	4942	4918
65°	4482	4294	4281
70°	3868	3709	3709
75°	3329	3283	3237
80°	2938	2970	2901
85°	2297	2509	2509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	1.4
10°-20°	202.7	4.0
20°-30°	303.6	6.0
30°-40°	356.1	7.1
40°-50°	357.3	7.1
50°-60°	304.8	6.0
60°-70°	198.8	3.9
70°-80°	99.7	2.0
80°-90°	27.6	0.5
90°-100°	229.3	4.5
100°-110°	652.5	12.9
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	0.9
0°-30°	577.3	11.4
0°-40°	933.5	18.5
0°-60°	1595.5	31.6
0°-90°	1921.6	38.1
90°-120°	1507.0	29.9
90°-150°	2709.8	53.7
90°-180°	3126.0	61.9
0°-180°	5047.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	753	746	749	746	746	72
15°	724	717	720	718	717	204
25°	667	660	663	657	656	307
35°	576	571	572	566	565	360
45°	468	465	465	461	461	361
55°	347	346	343	341	340	309
65°	205	201	197	195	196	205
75°	93	93	92	91	91	101
85°	22	24	24	24	24	26
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.8	750.8	750.8	750.8	750.8
2.5°	755.5	749.4	750.8	749.7	746.6
5°	753.4	746.3	748.8	746.2	746.2
7.5°	748.3	740.6	743.0	740.4	740.3
10°	743.6	735.8	738.3	735.6	735.0
12.5°	736.7	729.0	732.0	728.8	728.7
15°	724.5	717.4	720.5	717.9	716.6
17.5°	710.7	702.9	706.7	703.0	702.5
20°	700.1	692.4	696.2	690.9	690.9
22.5°	687.5	679.8	684.1	677.2	677.2
25°	667.2	659.5	662.6	656.7	656.0
27.5°	643.1	635.5	638.8	632.1	632.0
30°	625.8	618.7	622.5	615.2	614.6
32.5°	606.8	600.3	603.0	595.7	595.1
35°	576.4	570.6	572.5	565.9	565.2
37.5°	544.4	538.5	540.6	535.0	534.7
40°	521.8	517.9	518.5	513.9	512.6
42.5°	500.7	496.4	496.9	492.3	492.1
45°	468.5	465.3	465.2	460.6	460.6
47.5°	434.3	431.8	431.1	427.3	427.2
50°	410.6	408.7	408.0	404.7	404.0
52.5°	385.9	385.0	382.7	379.9	379.8
55°	347.4	346.1	342.8	340.8	340.2
57.5°	305.7	303.1	299.4	296.5	297.0
60°	275.7	273.1	267.8	266.5	266.5
62.5°	246.8	243.7	238.3	236.5	237.5
65°	205.3	201.4	196.7	195.4	196.1
67.5°	167.7	164.2	159.1	159.1	158.6
70°	143.4	141.5	137.5	137.5	137.5
72.5°	121.9	121.0	118.0	118.0	117.5
75°	93.4	93.4	92.1	91.4	90.8
77.5°	70.0	70.3	69.6	68.9	67.8
80°	55.3	56.6	55.9	55.3	54.6
82.5°	41.6	42.9	42.8	41.6	41.5
85°	21.7	23.6	23.7	23.7	23.7
87.5°	5.8	7.8	8.4	8.4	8.9
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)