

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: P561881

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561881  
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-PR1-075U-050D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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**

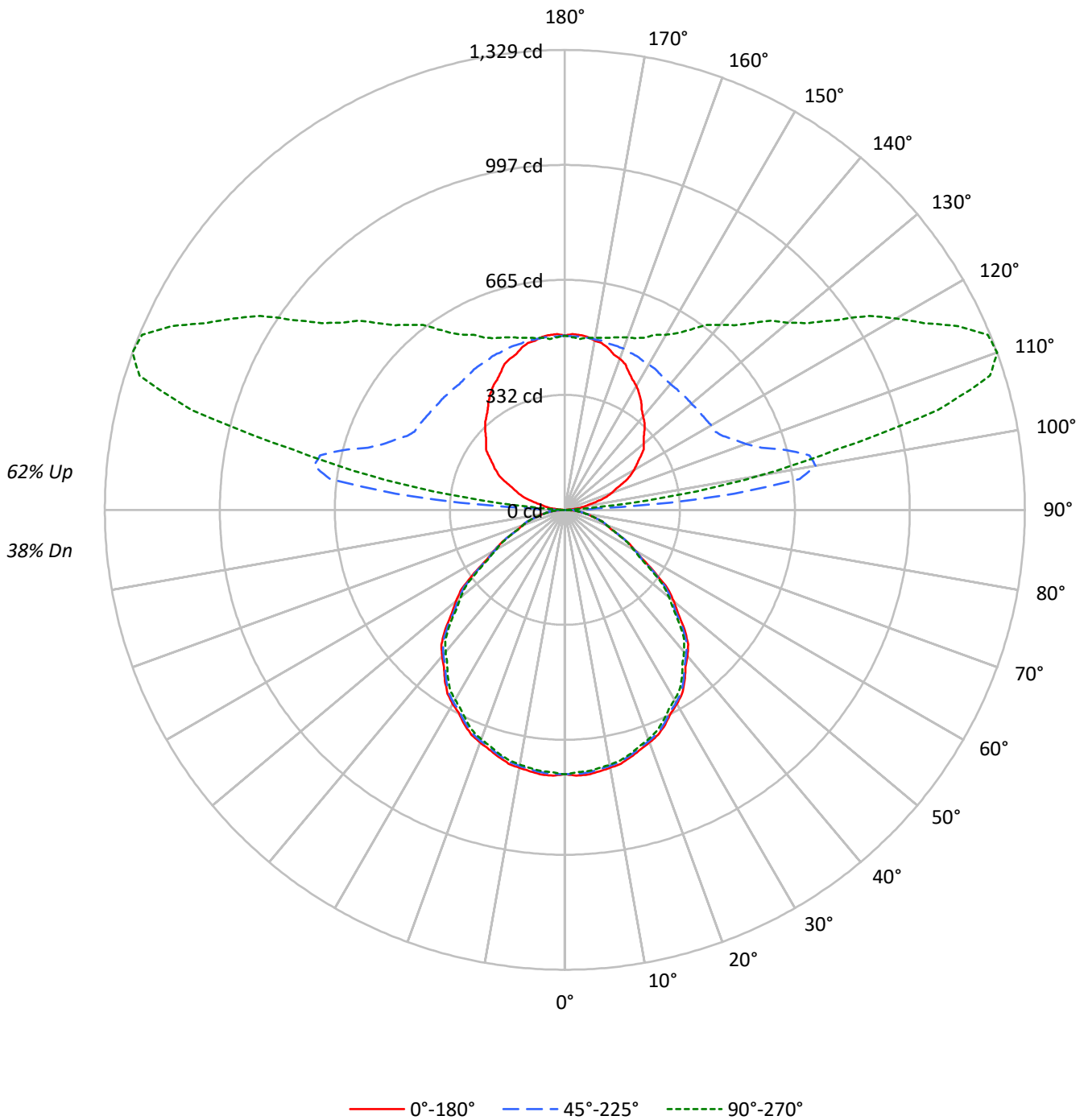
Lumens per Lamp: N/A  
Luminaire Lumens: 5036.2 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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

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

	0°	45°	90°
0°	7050	7050	7050
5°	7114	7059	7022
10°	7091	7041	7005
15°	7060	7016	6978
20°	7024	6979	6928
25°	6975	6927	6847
30°	6899	6850	6752
35°	6797	6739	6642
40°	6642	6571	6452
45°	6373	6260	6131
50°	5895	5753	5639
55°	5146	5028	4922
60°	4336	4299	4215
65°	3751	3764	3735
70°	3445	3461	3461
75°	3308	3308	3333
80°	3114	3145	3114
85°	2509	2784	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	1.4
10°-20°	206.7	4.1
20°-30°	311.8	6.2
30°-40°	371.6	7.4
40°-50°	366.3	7.3
50°-60°	280.0	5.6
60°-70°	173.2	3.4
70°-80°	98.4	2.0
80°-90°	29.9	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	0.9
0°-30°	590.8	11.7
0°-40°	962.4	19.1
0°-60°	1608.6	31.9
0°-90°	1910.2	37.9
90°-120°	1507.0	29.9
90°-150°	2709.8	53.8
90°-180°	3126.0	62.1
0°-180°	5036.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	768	760	762	760	758	73
15°	739	731	734	732	731	209
25°	685	677	680	673	673	315
35°	604	596	598	590	590	377
45°	488	482	480	471	470	374
55°	320	315	313	307	306	287
65°	172	170	172	171	171	174
75°	93	93	93	94	94	98
85°	24	25	26	26	26	28
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-PR1-075U-050D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	764.1	764.1	764.1	764.1	764.1
2.5°	768.9	762.2	764.1	762.5	758.9
5°	768.1	759.7	762.2	759.5	758.2
7.5°	762.2	753.9	756.4	753.7	752.9
10°	756.9	749.2	751.6	749.0	747.7
12.5°	751.1	742.9	745.8	742.6	741.4
15°	739.1	731.4	734.5	731.9	730.6
17.5°	726.0	717.7	720.8	717.8	716.1
20°	715.4	707.7	710.8	706.2	705.6
22.5°	703.8	696.1	699.2	693.0	692.9
25°	685.2	676.8	680.5	673.3	672.6
27.5°	662.9	655.2	658.3	650.9	650.1
30°	647.6	639.9	643.0	635.1	633.8
32.5°	630.3	623.1	625.7	617.7	617.0
35°	603.5	596.5	598.3	590.4	589.7
37.5°	573.1	566.7	567.7	559.0	558.4
40°	551.5	545.1	545.6	536.4	535.7
42.5°	527.8	521.4	520.9	511.6	511.0
45°	488.4	481.9	479.8	471.2	469.9
47.5°	443.3	436.9	432.9	425.9	425.0
50°	410.7	404.3	400.8	394.9	392.9
52.5°	375.4	369.0	366.1	360.6	358.7
55°	319.9	314.7	312.6	307.3	306.0
57.5°	267.1	263.6	263.0	257.9	257.3
60°	235.0	233.0	233.0	228.4	228.4
62.5°	207.6	206.2	207.2	204.2	203.6
65°	171.8	170.5	172.4	171.1	171.1
67.5°	143.5	143.5	144.7	144.1	144.1
70°	127.7	127.7	128.3	128.3	128.3
72.5°	113.5	113.0	114.7	114.6	114.1
75°	92.8	92.8	92.8	93.5	93.5
77.5°	72.3	72.4	72.9	72.8	72.3
80°	58.6	59.2	59.2	58.6	58.6
82.5°	44.9	45.5	45.5	45.4	44.9
85°	23.7	25.0	26.3	26.3	26.3
87.5°	6.8	8.9	10.5	10.5	10.0
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)