

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: P561884

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561884  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5360.3 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

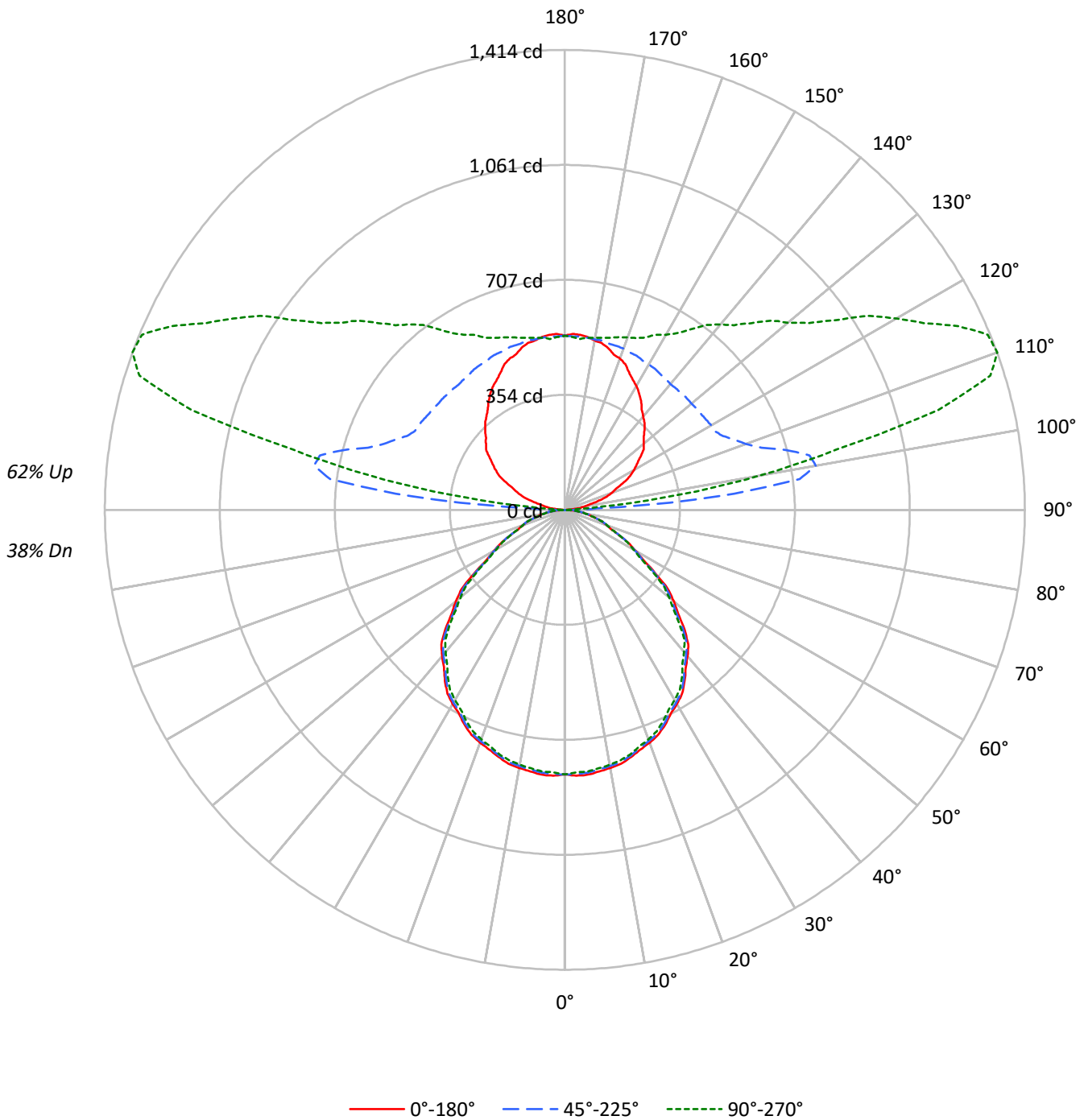
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7504	7504	7504
5°	7571	7513	7474
10°	7547	7495	7455
15°	7514	7467	7427
20°	7477	7429	7373
25°	7423	7373	7288
30°	7343	7291	7187
35°	7235	7172	7070
40°	7070	6994	6867
45°	6782	6664	6527
50°	6274	6123	6003
55°	5475	5352	5239
60°	4615	4576	4486
65°	3991	4006	3975
70°	3666	3685	3685
75°	3522	3522	3547
80°	3310	3347	3310
85°	2668	2964	2964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.4
10°-20°	220.0	4.1
20°-30°	331.9	6.2
30°-40°	395.5	7.4
40°-50°	389.9	7.3
50°-60°	298.0	5.6
60°-70°	184.4	3.4
70°-80°	104.7	2.0
80°-90°	31.9	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	0.9
0°-30°	628.9	11.7
0°-40°	1024.3	19.1
0°-60°	1712.2	31.9
0°-90°	2033.1	37.9
90°-120°	1603.9	29.9
90°-150°	2884.1	53.8
90°-180°	3327.0	62.1
0°-180°	5360.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	818	809	811	808	807	78
15°	787	778	782	779	778	222
25°	729	720	724	717	716	336
35°	642	635	637	628	628	401
45°	520	513	511	502	500	398
55°	340	335	333	327	326	305
65°	183	182	184	182	182	185
75°	99	99	99	100	100	104
85°	25	27	28	28	28	29
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°	813.3	813.3	813.3	813.3	813.3
2.5°	818.3	811.2	813.3	811.5	807.7
5°	817.5	808.6	811.2	808.4	807.0
7.5°	811.2	802.4	805.0	802.2	801.4
10°	805.6	797.4	800.0	797.2	795.8
12.5°	799.4	790.7	793.8	790.4	789.1
15°	786.7	778.5	781.8	778.9	777.6
17.5°	772.7	763.9	767.2	763.9	762.2
20°	761.5	753.2	756.6	751.6	750.9
22.5°	749.1	740.9	744.2	737.6	737.5
25°	729.2	720.3	724.3	716.6	715.9
27.5°	705.6	697.3	700.7	692.8	692.0
30°	689.3	681.1	684.4	676.0	674.6
32.5°	670.8	663.1	665.9	657.5	656.7
35°	642.4	634.8	636.8	628.3	627.7
37.5°	610.0	603.2	604.3	595.0	594.3
40°	587.0	580.2	580.7	570.9	570.2
42.5°	561.8	555.0	554.4	544.6	543.9
45°	519.8	512.9	510.7	501.5	500.2
47.5°	471.9	465.0	460.8	453.3	452.4
50°	437.1	430.3	426.6	420.3	418.2
52.5°	399.6	392.7	389.6	383.8	381.8
55°	340.4	335.0	332.7	327.1	325.7
57.5°	284.3	280.6	279.9	274.4	273.9
60°	250.1	248.0	248.0	243.1	243.1
62.5°	220.9	219.4	220.5	217.3	216.7
65°	182.8	181.5	183.5	182.1	182.1
67.5°	152.7	152.7	154.0	153.4	153.4
70°	135.9	135.9	136.6	136.6	136.6
72.5°	120.8	120.2	122.0	122.0	121.5
75°	98.8	98.8	98.8	99.5	99.5
77.5°	76.9	77.1	77.6	77.5	76.9
80°	62.3	63.0	63.0	62.3	62.3
82.5°	47.8	48.5	48.5	48.3	47.8
85°	25.2	26.6	28.0	28.0	28.0
87.5°	7.3	9.5	11.2	11.2	10.6
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)