

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: P523690

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523690  
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-PP3-050U-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5507.7 lumens  
Efficiency: N/A  
Efficacy: 115.7 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: General Diffuse

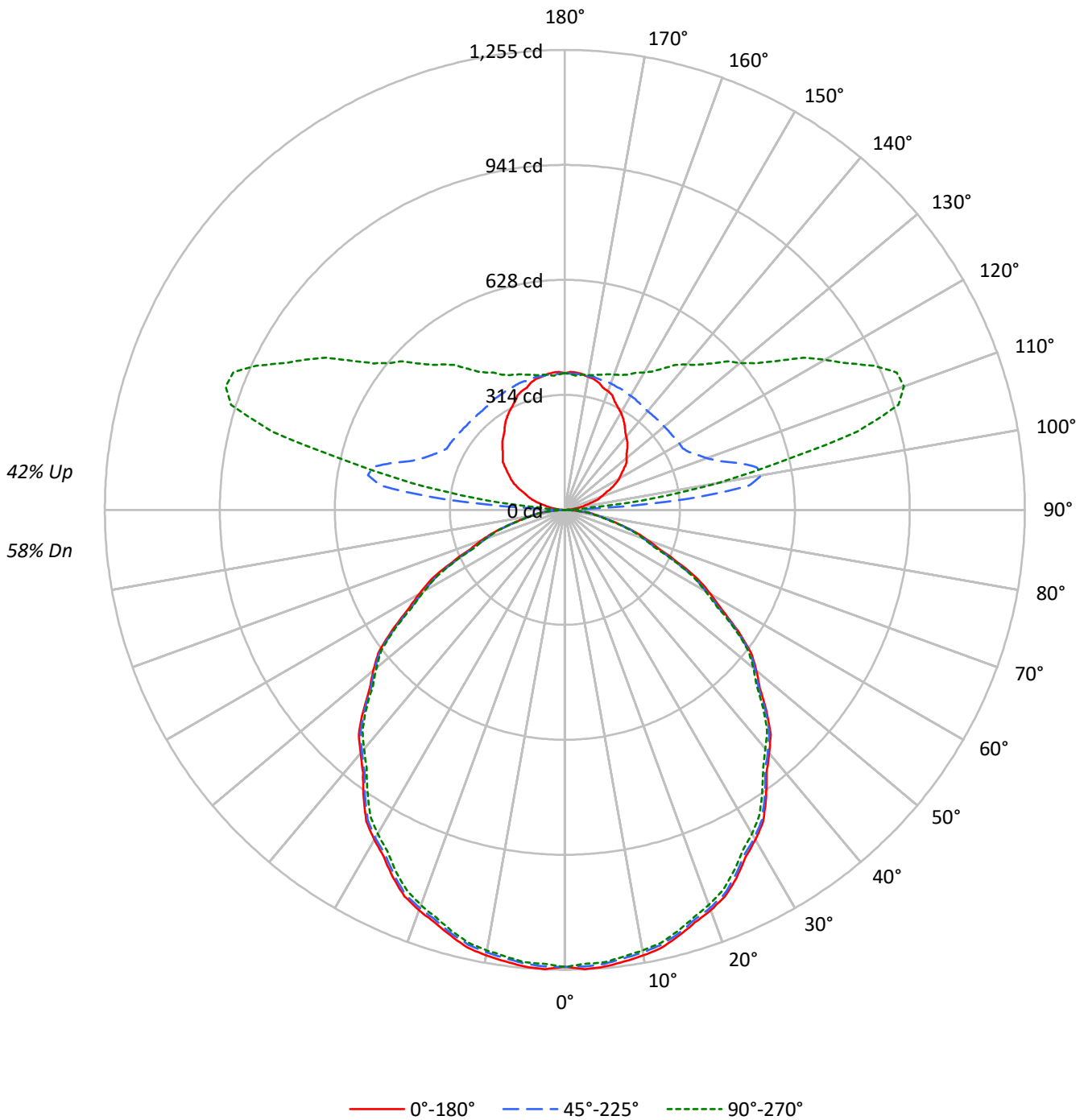
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	11505	11505	11505
5°	11590	11518	11479
10°	11570	11489	11437
15°	11494	11431	11368
20°	11418	11353	11268
25°	11281	11204	11092
30°	11073	11015	10875
35°	10783	10709	10574
40°	10438	10372	10254
45°	10154	10082	9982
50°	9789	9726	9633
55°	9283	9159	9088
60°	8449	8208	8167
65°	7444	7134	7110
70°	6428	6161	6161
75°	5532	5454	5376
80°	4877	4936	4819
85°	3822	4160	4160



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	2.1
10°-20°	336.7	6.1
20°-30°	504.3	9.2
30°-40°	591.5	10.7
40°-50°	593.4	10.8
50°-60°	506.2	9.2
60°-70°	330.1	6.0
70°-80°	165.6	3.0
80°-90°	45.8	0.8
90°-100°	169.9	3.1
100°-110°	483.4	8.8
110°-120°	463.2	8.4
120°-130°	366.6	6.7
130°-140°	294.2	5.3
140°-150°	230.4	4.2
150°-160°	168.5	3.1
160°-170°	104.4	1.9
170°-180°	35.4	0.6
0°-30°	958.9	17.4
0°-40°	1550.5	28.2
0°-60°	2650.1	48.1
0°-90°	3191.7	57.9
90°-120°	1116.5	20.3
90°-150°	2007.7	36.5
90°-180°	2316.0	42.1
0°-180°	5507.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1240	1244	1239	1239	119
15°	1203	1192	1197	1192	1190	339
25°	1108	1095	1101	1091	1090	510
35°	957	948	951	940	939	598
45°	778	773	773	765	765	599
55°	577	575	569	566	565	513
65°	341	335	327	325	326	340
75°	155	155	153	152	151	168
85°	36	39	39	39	39	42
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1247.0	1247.0	1247.0	1247.0	1247.0
2.5°	1254.9	1244.6	1247.0	1245.2	1240.0
5°	1251.4	1239.6	1243.7	1239.4	1239.4
7.5°	1242.9	1230.0	1234.1	1229.8	1229.5
10°	1235.0	1222.2	1226.3	1221.9	1220.8
12.5°	1223.6	1210.8	1215.8	1210.5	1210.3
15°	1203.3	1191.6	1196.8	1192.3	1190.2
17.5°	1180.4	1167.5	1173.8	1167.7	1166.8
20°	1162.9	1150.0	1156.3	1147.6	1147.6
22.5°	1141.9	1129.1	1136.2	1124.8	1124.8
25°	1108.2	1095.4	1100.6	1090.7	1089.6
27.5°	1068.2	1055.6	1061.0	1049.9	1049.6
30°	1039.4	1027.6	1033.9	1021.9	1020.8
32.5°	1007.9	997.0	1001.6	989.5	988.4
35°	957.4	947.8	950.8	939.9	938.8
37.5°	904.3	894.5	897.9	888.5	888.1
40°	866.7	860.3	861.2	853.5	851.4
42.5°	831.7	824.4	825.4	817.7	817.3
45°	778.2	772.8	772.7	765.0	765.0
47.5°	721.3	717.3	716.1	709.7	709.5
50°	682.0	678.8	677.6	672.1	671.1
52.5°	640.9	639.4	635.6	631.0	630.8
55°	577.1	574.9	569.4	566.1	565.0
57.5°	507.8	503.5	497.3	492.5	493.3
60°	457.9	453.7	444.8	442.6	442.6
62.5°	409.8	404.7	395.9	392.8	394.5
65°	341.0	334.6	326.8	324.6	325.7
67.5°	278.5	272.7	264.3	264.2	263.4
70°	238.3	235.1	228.4	228.4	228.4
72.5°	202.4	200.9	196.1	196.1	195.2
75°	155.2	155.2	153.0	151.9	150.8
77.5°	116.3	116.7	115.6	114.5	112.6
80°	91.8	93.9	92.9	91.8	90.7
82.5°	69.1	71.2	71.0	69.1	68.9
85°	36.1	39.3	39.3	39.3	39.3
87.5°	9.6	13.0	14.0	14.0	14.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)