

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: P563594

Luminaire Tested: **SQ4-PP3-100U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563594  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

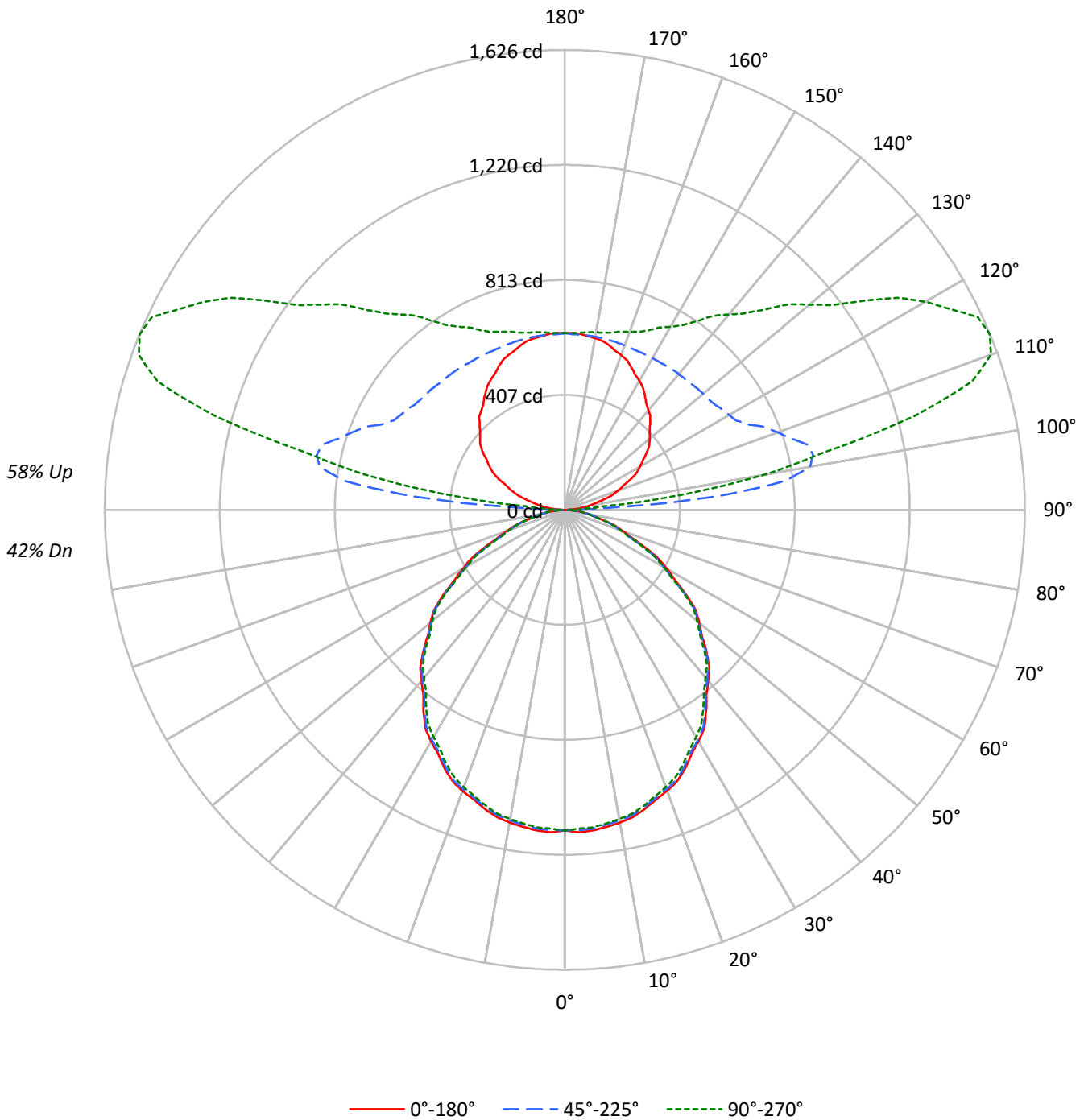
Lumens per Lamp: N/A  
Luminaire Lumens: 6960.1 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.1  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10474	10437
10°	10520	10446	10399
15°	10450	10393	10337
20°	10381	10323	10244
25°	10257	10187	10085
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9432	9323
45°	9231	9167	9076
50°	8901	8843	8757
55°	8440	8327	8265
60°	7684	7462	7427
65°	6768	6486	6464
70°	5843	5603	5603
75°	5030	4959	4887
80°	4436	4490	4383
85°	3472	3790	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.5
10°-20°	306.1	4.4
20°-30°	458.5	6.6
30°-40°	537.9	7.7
40°-50°	539.5	7.8
50°-60°	460.3	6.6
60°-70°	300.2	4.3
70°-80°	150.6	2.2
80°-90°	43.0	0.6
90°-100°	292.4	4.2
100°-110°	807.2	11.6
110°-120°	832.5	12.0
120°-130°	669.0	9.6
130°-140°	525.7	7.6
140°-150°	403.2	5.8
150°-160°	289.8	4.2
160°-170°	177.2	2.5
170°-180°	59.8	0.9
0°-30°	871.9	12.5
0°-40°	1409.8	20.3
0°-60°	2409.6	34.6
0°-90°	2903.3	41.7
90°-120°	1932.1	27.8
90°-150°	3530.0	50.7
90°-180°	4057.0	58.3
0°-180°	6960.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1138	1127	1131	1127	1127	108
15°	1094	1083	1088	1084	1082	309
25°	1008	996	1001	992	991	463
35°	870	862	864	855	854	544
45°	708	703	703	696	696	545
55°	525	523	518	515	514	466
65°	310	304	297	295	296	309
75°	141	141	139	138	137	153
85°	33	36	36	36	36	39
90°	2	4	8	9	10	4
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1141.0	1131.7	1133.8	1132.1	1127.5
5°	1137.8	1127.1	1130.9	1126.9	1126.9
7.5°	1130.1	1118.4	1122.1	1118.1	1117.9
10°	1122.9	1111.3	1115.0	1111.0	1110.0
12.5°	1112.6	1100.9	1105.4	1100.6	1100.5
15°	1094.1	1083.4	1088.1	1084.1	1082.2
17.5°	1073.2	1061.6	1067.3	1061.7	1060.9
20°	1057.3	1045.7	1051.4	1043.4	1043.4
22.5°	1038.2	1026.6	1033.1	1022.7	1022.7
25°	1007.6	996.0	1000.7	991.7	990.7
27.5°	971.3	959.8	964.7	954.6	954.4
30°	945.0	934.3	940.1	929.1	928.1
32.5°	916.4	906.5	910.7	899.7	898.7
35°	870.5	861.8	864.5	854.6	853.6
37.5°	822.2	813.3	816.4	807.9	807.5
40°	788.0	782.2	783.1	776.1	774.1
42.5°	756.2	749.6	750.5	743.5	743.1
45°	707.5	702.7	702.6	695.6	695.6
47.5°	655.9	652.2	651.1	645.3	645.1
50°	620.1	617.2	616.1	611.1	610.1
52.5°	582.7	581.4	578.0	573.8	573.6
55°	524.7	522.7	517.7	514.7	513.8
57.5°	461.7	457.8	452.1	447.8	448.6
60°	416.4	412.5	404.4	402.5	402.5
62.5°	372.6	368.0	359.9	357.2	358.7
65°	310.0	304.2	297.1	295.2	296.1
67.5°	253.2	248.0	240.3	240.3	239.5
70°	216.6	213.7	207.7	207.7	207.7
72.5°	184.0	182.7	178.3	178.3	177.5
75°	141.1	141.1	139.1	138.1	137.1
77.5°	105.7	106.1	105.1	104.1	102.4
80°	83.5	85.4	84.5	83.5	82.5
82.5°	62.8	64.7	64.6	62.8	62.6
85°	32.8	35.7	35.8	35.8	35.8
87.5°	9.1	12.6	14.3	14.5	15.5
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)