

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: P563602

Luminaire Tested: **SQ4-PP3-100U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563602  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

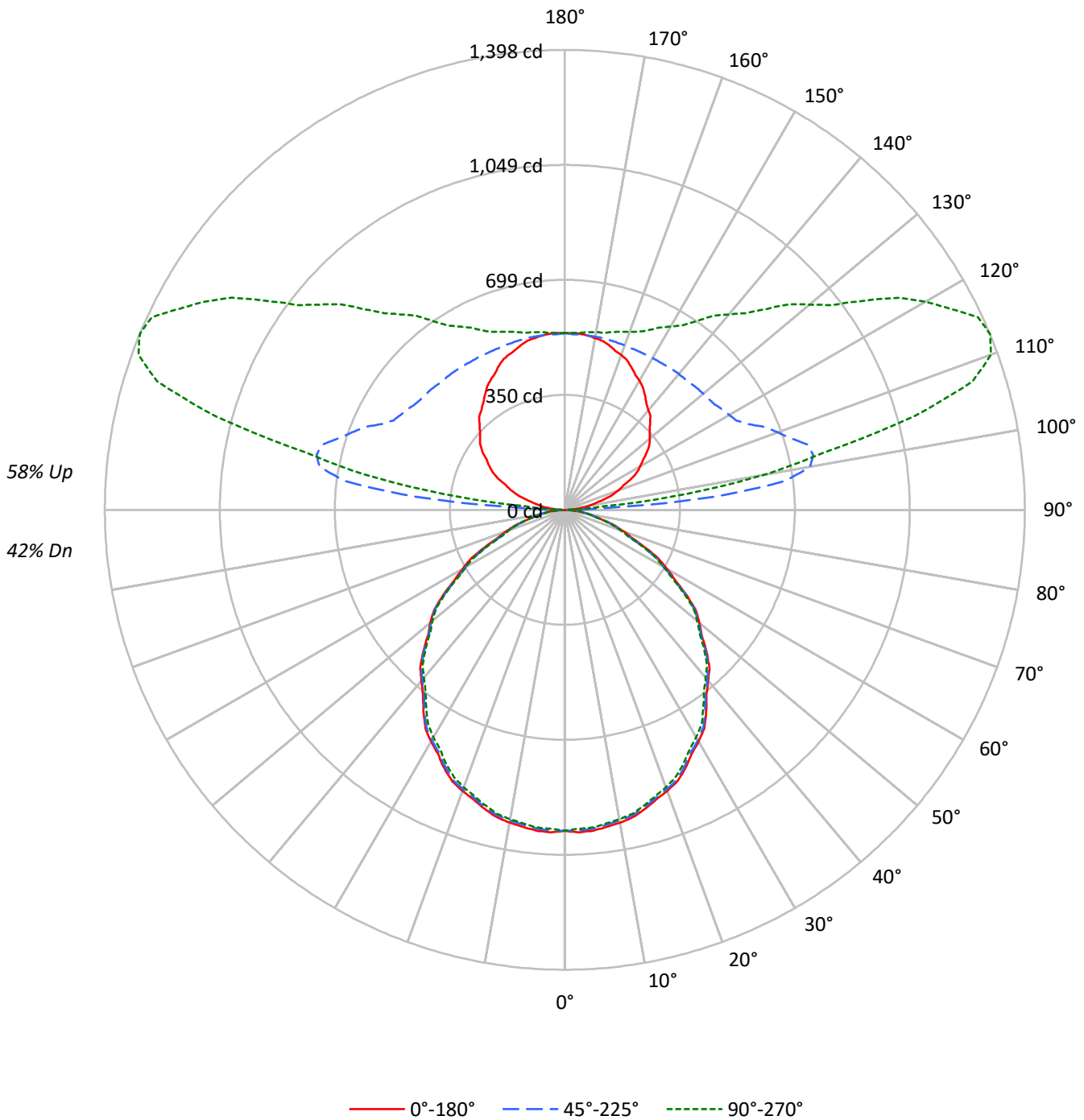
Lumens per Lamp: N/A  
Luminaire Lumens: 5987.3 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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	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°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8985	8946
15°	8990	8941	8892
20°	8931	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7656	7607	7534
55°	7261	7164	7110
60°	6610	6420	6388
65°	5822	5580	5560
70°	5028	4821	4821
75°	4328	4267	4206
80°	3815	3863	3772
85°	2985	3260	3260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	1.5
10°-20°	263.4	4.4
20°-30°	394.5	6.6
30°-40°	462.7	7.7
40°-50°	464.1	7.8
50°-60°	395.9	6.6
60°-70°	258.2	4.3
70°-80°	129.6	2.2
80°-90°	37.0	0.6
90°-100°	251.5	4.2
100°-110°	694.4	11.6
110°-120°	716.1	12.0
120°-130°	575.5	9.6
130°-140°	452.3	7.6
140°-150°	346.9	5.8
150°-160°	249.3	4.2
160°-170°	152.5	2.5
170°-180°	51.4	0.9
0°-30°	750.0	12.5
0°-40°	1212.7	20.3
0°-60°	2072.8	34.6
0°-90°	2497.6	41.7
90°-120°	1662.0	27.8
90°-150°	3036.6	50.7
90°-180°	3490.0	58.3
0°-180°	5987.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	979	970	973	969	969	93
15°	941	932	936	933	931	266
25°	867	857	861	853	852	399
35°	749	741	744	735	734	468
45°	609	604	604	598	598	469
55°	451	450	445	443	442	401
65°	267	262	256	254	255	266
75°	121	121	120	119	118	132
85°	28	31	31	31	31	33
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	975.4	975.4	975.4	975.4	975.4
2.5°	981.5	973.5	975.4	973.9	969.9
5°	978.8	969.6	972.8	969.4	969.4
7.5°	972.1	962.1	965.3	961.9	961.7
10°	966.0	955.9	959.1	955.7	954.9
12.5°	957.1	947.1	950.9	946.8	946.7
15°	941.2	932.0	936.1	932.6	930.9
17.5°	923.2	913.2	918.1	913.3	912.6
20°	909.6	899.5	904.4	897.6	897.6
22.5°	893.1	883.1	888.7	879.8	879.8
25°	866.8	856.8	860.8	853.1	852.3
27.5°	835.5	825.7	829.9	821.2	821.0
30°	813.0	803.8	808.7	799.3	798.4
32.5°	788.3	779.8	783.4	774.0	773.1
35°	748.8	741.3	743.7	735.1	734.3
37.5°	707.3	699.6	702.3	695.0	694.6
40°	677.9	672.9	673.6	667.6	665.9
42.5°	650.5	644.9	645.6	639.6	639.3
45°	608.6	604.5	604.4	598.4	598.4
47.5°	564.2	561.0	560.1	555.1	555.0
50°	533.4	530.9	530.0	525.7	524.9
52.5°	501.3	500.1	497.2	493.6	493.4
55°	451.4	449.7	445.4	442.8	442.0
57.5°	397.2	393.8	389.0	385.2	385.9
60°	358.2	354.8	347.9	346.2	346.2
62.5°	320.6	316.6	309.6	307.3	308.6
65°	266.7	261.7	255.6	253.9	254.7
67.5°	217.8	213.3	206.7	206.7	206.0
70°	186.4	183.8	178.7	178.7	178.7
72.5°	158.3	157.1	153.4	153.3	152.7
75°	121.4	121.4	119.7	118.8	118.0
77.5°	91.0	91.3	90.4	89.6	88.0
80°	71.8	73.5	72.7	71.8	71.0
82.5°	54.0	55.7	55.6	54.0	53.9
85°	28.2	30.7	30.8	30.8	30.8
87.5°	7.9	10.9	12.3	12.5	13.3
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)