

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: P519921

Luminaire Tested: **SQ4-F-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519921  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-050U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

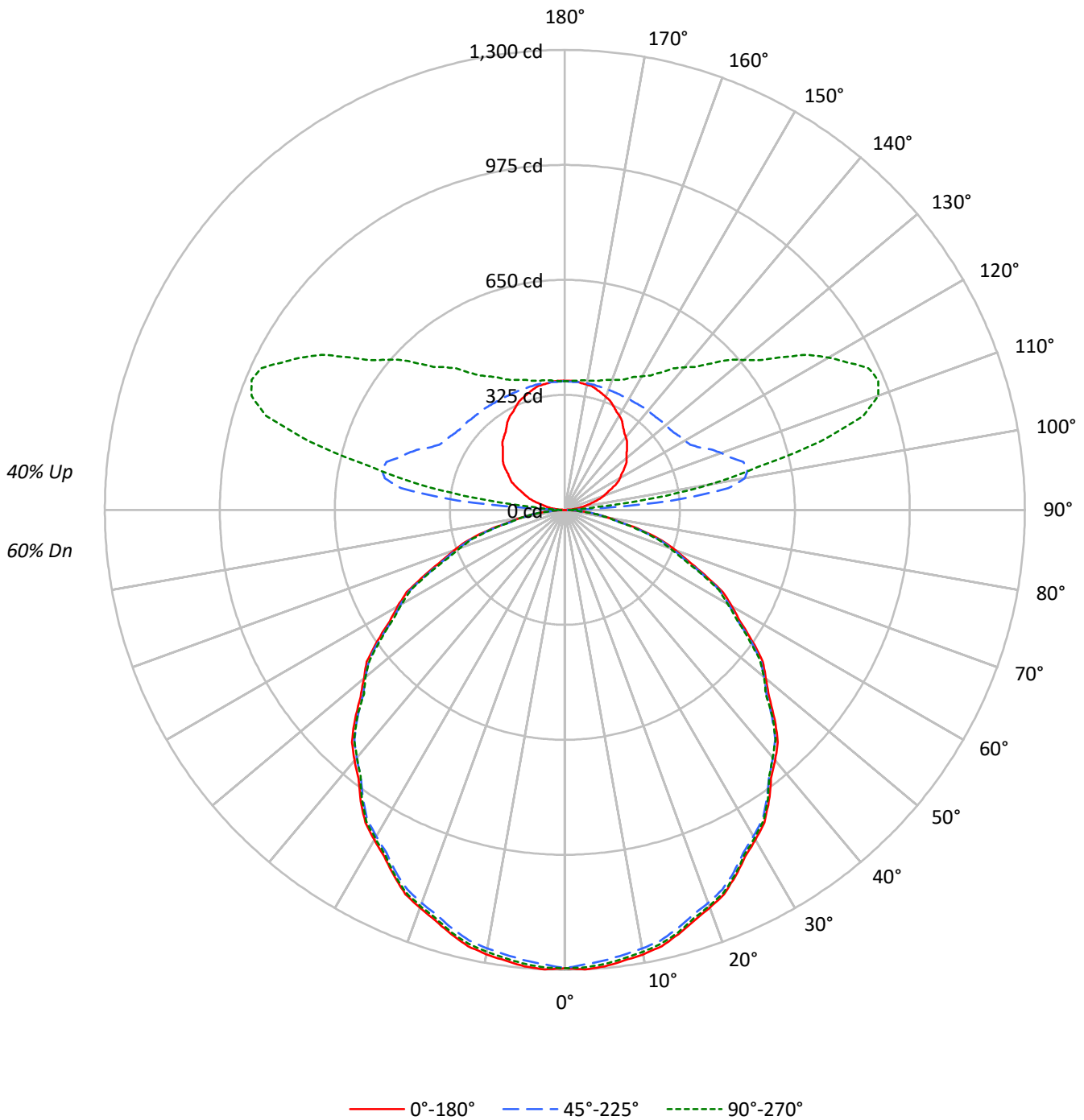
Lumens per Lamp: N/A  
Luminaire Lumens: 5915.8 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 56.3  
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	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	71	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

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

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7876
20°	7834	7742	7804
25°	7748	7669	7725
30°	7651	7566	7608
35°	7550	7470	7506
40°	7422	7347	7337
45°	7295	7203	7223
50°	7093	7036	7036
55°	6927	6840	6777
60°	6704	6589	6531
65°	6341	6223	6137
70°	5956	5809	5661
75°	5359	5164	5052
80°	4282	4204	4162
85°	2569	2901	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	2.1
10°-20°	348.1	5.9
20°-30°	523.1	8.8
30°-40°	624.1	10.5
40°-50°	640.1	10.8
50°-60°	570.3	9.6
60°-70°	425.2	7.2
70°-80°	230.6	3.9
80°-90°	54.4	0.9
90°-100°	174.8	3.0
100°-110°	474.9	8.0
110°-120°	488.2	8.3
120°-130°	390.4	6.6
130°-140°	306.7	5.2
140°-150°	235.2	4.0
150°-160°	169.1	2.9
160°-170°	103.4	1.7
170°-180°	34.8	0.6
0°-30°	993.5	16.8
0°-40°	1617.6	27.3
0°-60°	2828.0	47.8
0°-90°	3538.2	59.8
90°-120°	1137.9	19.2
90°-150°	2070.2	35.0
90°-180°	2378.0	40.2
0°-180°	5915.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1296	1293	1279	1290	1288	123
15°	1242	1239	1226	1236	1237	350
25°	1142	1140	1130	1136	1138	526
35°	1006	1003	995	995	1000	628
45°	839	835	828	828	830	645
55°	646	645	638	632	632	577
65°	436	436	428	423	422	434
75°	226	221	217	214	213	237
85°	36	39	41	41	42	50
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	307	363	441	474	180
155°	324	336	361	396	407	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.6	1295.6	1295.6	1295.6	1295.6
2.5°	1300.3	1297.6	1286.2	1295.6	1294.6
5°	1295.6	1293.3	1279.2	1289.7	1288.5
7.5°	1285.0	1282.5	1268.6	1279.2	1278.9
10°	1275.6	1272.2	1259.2	1269.7	1268.6
12.5°	1263.4	1260.0	1247.0	1257.5	1256.4
15°	1241.6	1239.2	1226.3	1235.7	1236.9
17.5°	1216.7	1212.3	1200.7	1209.9	1211.0
20°	1196.9	1193.5	1182.8	1191.1	1192.2
22.5°	1176.2	1172.8	1162.2	1170.4	1171.5
25°	1141.7	1140.5	1130.0	1135.9	1138.2
27.5°	1104.4	1101.2	1092.6	1097.1	1099.4
30°	1077.2	1074.8	1065.3	1069.0	1071.2
32.5°	1048.9	1047.5	1039.1	1040.7	1044.0
35°	1005.5	1003.2	994.9	995.0	999.6
37.5°	957.3	954.7	947.9	946.8	948.6
40°	924.4	921.0	915.0	913.8	913.8
42.5°	890.6	888.0	880.2	878.2	880.9
45°	838.7	835.3	828.1	828.2	830.4
47.5°	782.5	781.1	772.9	769.1	770.0
50°	741.2	743.5	735.3	730.7	735.3
52.5°	705.5	704.1	696.8	692.1	694.0
55°	646.0	644.9	637.8	632.0	632.0
57.5°	586.4	583.4	576.1	571.6	575.1
60°	545.0	543.9	535.6	527.5	530.9
62.5°	503.6	501.6	493.3	488.0	490.6
65°	435.7	435.7	427.6	422.9	421.7
67.5°	376.3	370.8	366.3	360.6	359.0
70°	331.2	326.6	323.0	318.2	314.8
72.5°	287.1	284.3	278.9	274.2	273.5
75°	225.5	220.9	217.3	213.7	212.6
77.5°	160.5	159.5	156.3	154.4	155.1
80°	120.9	120.9	118.7	118.6	117.5
82.5°	85.3	86.2	85.7	83.8	83.6
85°	36.4	38.7	41.1	41.1	42.3
87.5°	6.8	12.1	12.0	12.5	12.5
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.3	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.6	492.0	871.5	884.5
110°	118.2	156.0	469.5	886.5	942.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.1	874.0	958.5
115°	149.8	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.4	210.1	391.0	731.3	860.6
122.5°	190.7	220.4	385.4	690.8	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.3	596.6	694.8
130°	228.3	255.8	372.3	571.0	659.2
132.5°	236.8	264.3	370.4	549.3	627.3
135°	248.3	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.2	492.3	548.2
140°	268.1	292.1	365.3	475.3	525.8
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.8	307.4	363.0	441.0	474.3
147.5°	299.5	317.2	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.4
157.5°	333.9	342.9	360.6	389.0	397.6
160°	339.5	347.6	360.6	384.2	391.0
162.5°	345.2	351.4	361.6	380.4	385.4
165°	351.3	355.8	361.8	377.0	378.2
167.5°	357.6	359.8	363.0	373.1	374.0
170°	359.4	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.2	365.3	363.0	367.6	366.5
177.5°	365.0	365.0	362.3	366.0	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)