

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: P562368

Luminaire Tested: **SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562368  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 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: 7796.4 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

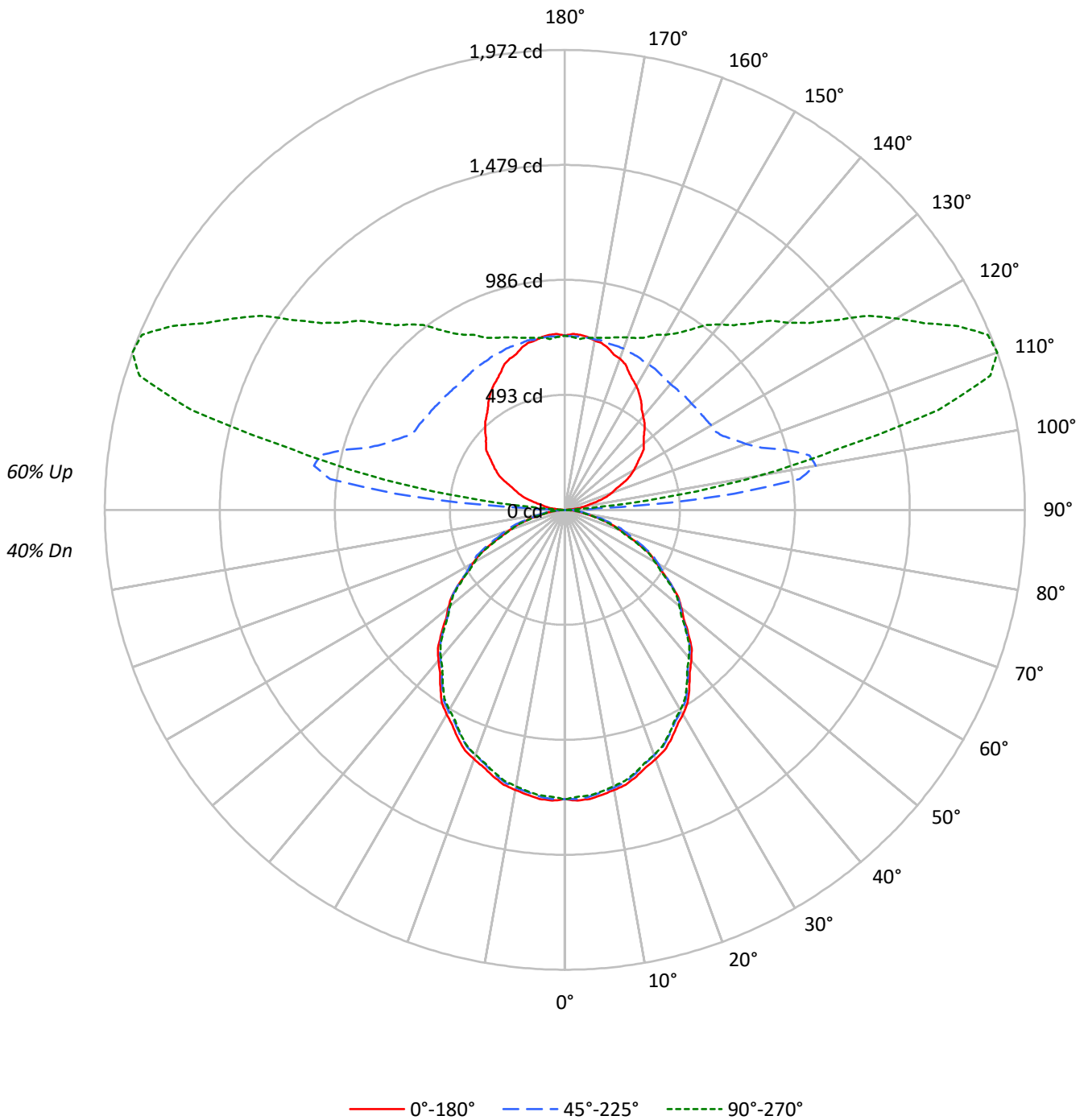
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	78	78	78	62	62	62	47	47	47	40
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

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

	0°	45°	90°
0°	11448	11448	11448
5°	11521	11430	11380
10°	11430	11338	11276
15°	11308	11183	11141
20°	11173	11001	10980
25°	11018	10817	10784
30°	10785	10622	10551
35°	10478	10331	10269
40°	10151	9993	9953
45°	9756	9628	9585
50°	9351	9274	9211
55°	8915	8915	8775
60°	8372	8532	8230
65°	7661	8043	7471
70°	6752	7402	6577
75°	5768	6623	5611
80°	4474	5574	4532
85°	2890	4277	3822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	1.5
10°-20°	329.9	4.2
20°-30°	489.3	6.3
30°-40°	572.5	7.3
40°-50°	570.0	7.3
50°-60°	492.2	6.3
60°-70°	354.3	4.5
70°-80°	185.8	2.4
80°-90°	46.1	0.6
90°-100°	340.3	4.4
100°-110°	968.4	12.4
110°-120°	927.8	11.9
120°-130°	734.4	9.4
130°-140°	589.4	7.6
140°-150°	461.5	5.9
150°-160°	337.6	4.3
160°-170°	209.1	2.7
170°-180°	71.0	0.9
0°-30°	936.0	12.0
0°-40°	1508.5	19.3
0°-60°	2570.7	33.0
0°-90°	3156.8	40.5
90°-120°	2236.6	28.7
90°-150°	4021.8	51.6
90°-180°	4640.0	59.5
0°-180°	7796.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1244	1230	1234	1231	1229	118
15°	1184	1169	1171	1169	1166	334
25°	1082	1064	1063	1056	1059	498
35°	930	918	917	908	912	582
45°	748	741	738	736	735	577
55°	554	553	554	547	546	495
65°	351	362	368	354	342	348
75°	162	177	186	174	157	173
85°	27	36	40	38	36	36
90°	0	0	0	0	0	3
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1247.8	1237.5	1240.8	1238.0	1232.0
5°	1244.0	1230.1	1234.2	1230.9	1228.7
7.5°	1231.4	1218.5	1221.5	1218.0	1216.7
10°	1220.0	1207.2	1210.2	1205.7	1203.6
12.5°	1206.9	1193.2	1196.2	1191.8	1190.5
15°	1183.9	1169.0	1170.8	1168.6	1166.4
17.5°	1157.2	1142.1	1142.4	1138.9	1138.4
20°	1138.0	1122.0	1120.5	1116.2	1118.3
22.5°	1117.0	1100.1	1098.6	1092.6	1095.6
25°	1082.3	1064.1	1062.6	1056.1	1059.3
27.5°	1042.0	1024.1	1024.1	1015.0	1018.4
30°	1012.3	995.2	997.0	986.1	990.4
32.5°	980.8	965.4	966.4	955.5	959.8
35°	930.3	917.5	917.2	908.5	911.7
37.5°	878.7	867.4	865.6	860.6	861.4
40°	842.8	833.2	829.7	826.4	826.4
42.5°	805.2	796.5	793.0	790.6	789.7
45°	747.7	741.3	737.9	735.7	734.6
47.5°	690.9	684.9	681.9	680.4	679.3
50°	651.5	647.3	646.1	642.8	641.7
52.5°	612.2	609.6	608.5	604.3	603.2
55°	554.2	553.2	554.2	546.6	545.5
57.5°	493.9	495.6	499.1	488.8	486.2
60°	453.7	457.9	462.4	450.3	446.0
62.5°	412.6	419.4	425.7	411.8	405.8
65°	350.9	361.6	368.4	353.9	342.2
67.5°	291.4	304.7	312.9	297.3	284.0
70°	250.3	265.3	274.4	258.7	243.8
72.5°	214.5	231.2	238.5	223.8	208.8
75°	161.8	176.8	185.8	173.5	157.4
77.5°	114.8	128.9	136.4	125.6	112.4
80°	84.2	99.1	104.9	96.0	85.3
82.5°	59.7	72.1	76.1	70.7	63.4
85°	27.3	35.9	40.4	38.2	36.1
87.5°	7.0	13.0	16.6	16.6	17.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)