

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: P562472

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562472  
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-PW1-150U-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 1500 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: 10179.5 lumens  
Efficiency: N/A  
Efficacy: 122.9 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: Semi-Indirect

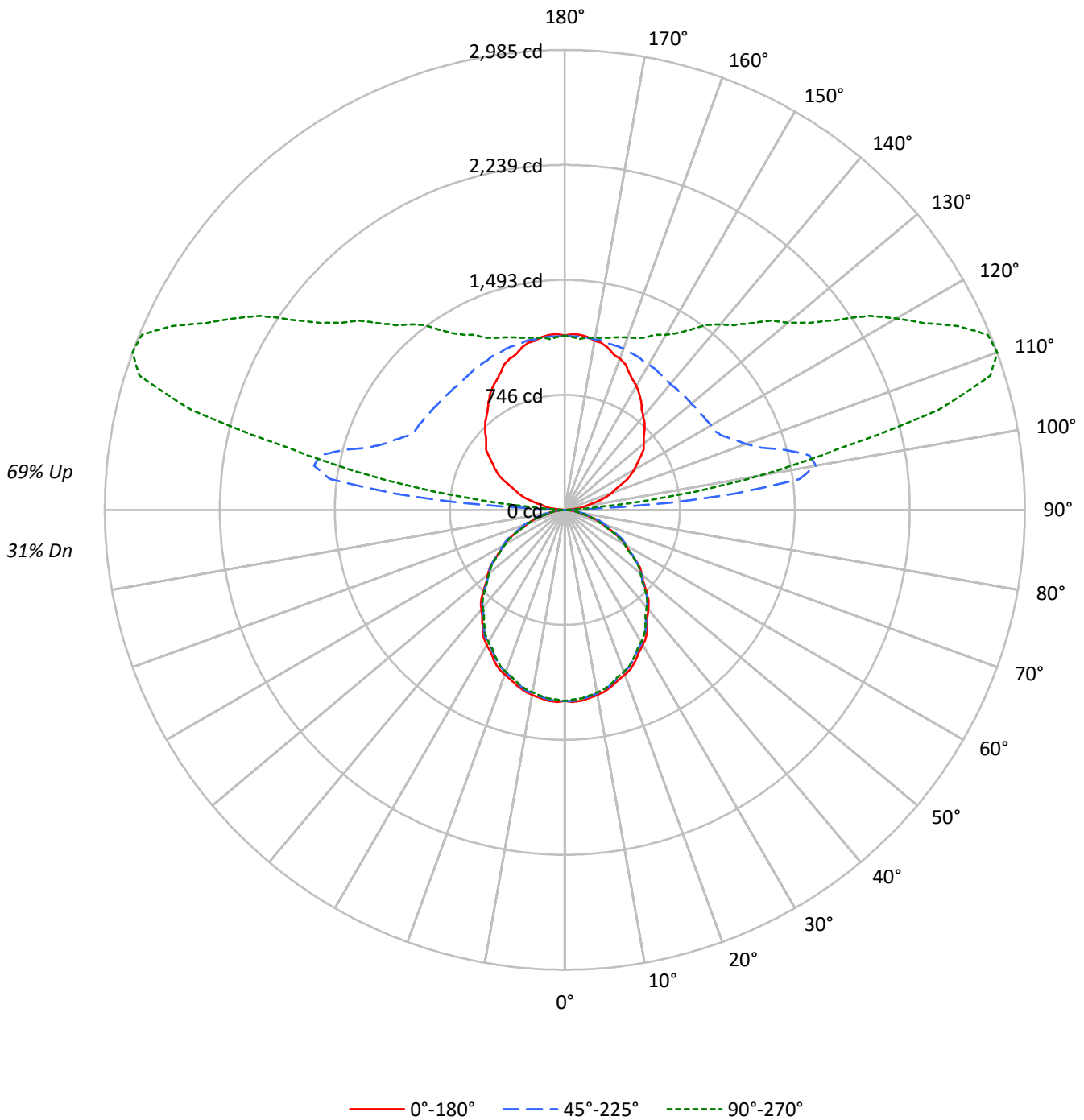
Input Watts (W): 82.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**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	1.1
10°-20°	329.9	3.2
20°-30°	489.3	4.8
30°-40°	572.5	5.6
40°-50°	570.0	5.6
50°-60°	492.2	4.8
60°-70°	354.3	3.5
70°-80°	185.8	1.8
80°-90°	46.1	0.5
90°-100°	515.2	5.1
100°-110°	1465.8	14.4
110°-120°	1404.4	13.8
120°-130°	1111.5	10.9
130°-140°	892.2	8.8
140°-150°	698.5	6.9
150°-160°	511.1	5.0
160°-170°	316.6	3.1
170°-180°	107.4	1.1
0°-30°	936.0	9.2
0°-40°	1508.5	14.8
0°-60°	2570.7	25.3
0°-90°	3156.8	31.0
90°-120°	3385.4	33.3
90°-150°	6087.6	59.8
90°-180°	7023.0	69.0
0°-180°	10179.5	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°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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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°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)