

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: P564755

Luminaire Tested: **SQ4-PW1-075U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564755  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

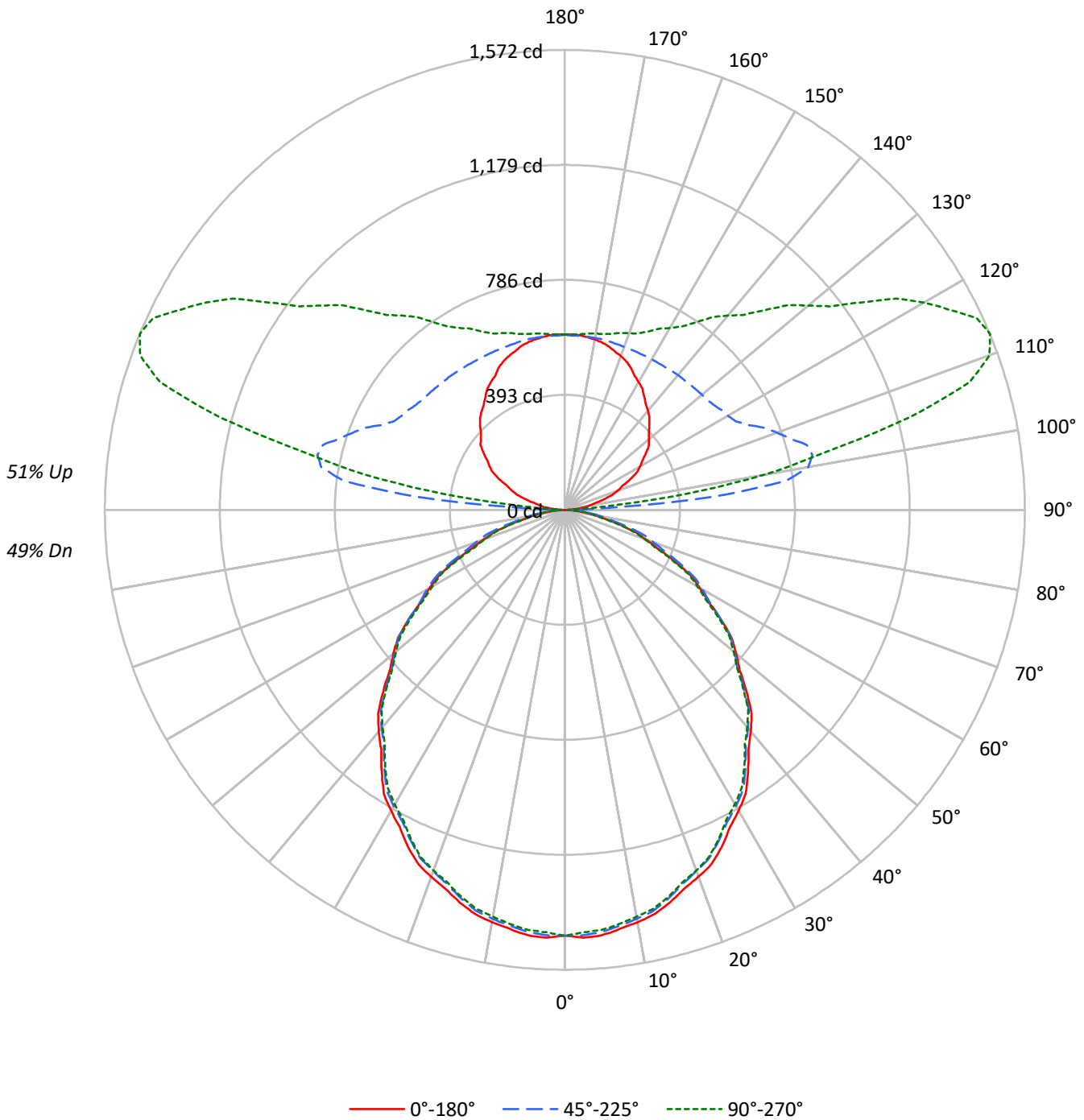
Lumens per Lamp: N/A  
Luminaire Lumens: 7607.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8939	8868	8820
15°	8845	8747	8714
20°	8740	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7530	7497
50°	7315	7253	7204
55°	6974	6974	6863
60°	6548	6674	6437
65°	5992	6290	5842
70°	5282	5789	5143
75°	4511	5181	4389
80°	3500	4360	3542
85°	2265	3352	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	1.8
10°-20°	387.0	5.1
20°-30°	574.1	7.5
30°-40°	671.7	8.8
40°-50°	668.7	8.8
50°-60°	577.5	7.6
60°-70°	415.7	5.5
70°-80°	218.0	2.9
80°-90°	55.6	0.7
90°-100°	282.5	3.7
100°-110°	777.2	10.2
110°-120°	802.2	10.5
120°-130°	642.7	8.4
130°-140°	504.8	6.6
140°-150°	386.9	5.1
150°-160°	278.2	3.7
160°-170°	170.1	2.2
170°-180°	57.3	0.8
0°-30°	1098.1	14.4
0°-40°	1769.9	23.3
0°-60°	3016.0	39.6
0°-90°	3705.3	48.7
90°-120°	1861.9	24.5
90°-150°	3396.4	44.6
90°-180°	3902.0	51.3
0°-180°	7607.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1460	1443	1448	1444	1442	138
15°	1389	1372	1374	1371	1368	392
25°	1270	1248	1247	1239	1243	584
35°	1092	1076	1076	1066	1070	682
45°	877	870	866	863	862	677
55°	650	649	650	641	640	580
65°	412	424	432	415	401	408
75°	190	207	218	204	185	203
85°	32	42	48	45	42	42
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1463.9	1451.9	1455.7	1452.5	1445.5
5°	1459.6	1443.3	1448.0	1444.1	1441.6
7.5°	1444.7	1429.6	1433.1	1429.0	1427.5
10°	1431.3	1416.3	1419.8	1414.6	1412.1
12.5°	1416.0	1399.9	1403.4	1398.2	1396.7
15°	1389.0	1371.5	1373.6	1371.0	1368.5
17.5°	1357.7	1339.9	1340.3	1336.2	1335.7
20°	1335.2	1316.3	1314.6	1309.6	1312.1
22.5°	1310.5	1290.7	1289.0	1281.9	1285.4
25°	1269.7	1248.4	1246.7	1239.0	1242.8
27.5°	1222.5	1201.5	1201.5	1190.8	1194.8
30°	1187.7	1167.6	1169.7	1157.0	1162.0
32.5°	1150.7	1132.7	1133.8	1121.1	1126.1
35°	1091.5	1076.4	1076.1	1065.9	1069.7
37.5°	1030.9	1017.6	1015.5	1009.7	1010.7
40°	988.9	977.6	973.5	969.6	969.6
42.5°	944.7	934.5	930.4	927.5	926.5
45°	877.3	869.8	865.7	863.1	861.9
47.5°	810.6	803.6	800.1	798.2	797.0
50°	764.4	759.4	758.0	754.1	752.9
52.5°	718.2	715.2	713.9	709.0	707.7
55°	650.3	649.0	650.3	641.3	640.0
57.5°	579.5	581.5	585.6	573.5	570.5
60°	532.3	537.3	542.5	528.3	523.3
62.5°	484.0	492.1	499.4	483.1	476.1
65°	411.7	424.2	432.2	415.2	401.4
67.5°	341.9	357.5	367.1	348.8	333.2
70°	293.7	311.3	321.9	303.6	286.0
72.5°	251.6	271.2	279.9	262.5	245.0
75°	189.8	207.4	218.0	203.5	184.7
77.5°	134.7	151.2	160.1	147.4	131.8
80°	98.8	116.3	123.1	112.6	100.0
82.5°	70.0	84.6	89.3	82.9	74.4
85°	32.1	42.1	47.5	44.8	42.3
87.5°	8.5	16.2	21.3	21.8	22.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)