

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: P564943

Luminaire Tested: **SQ4-PW1-100U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564943  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

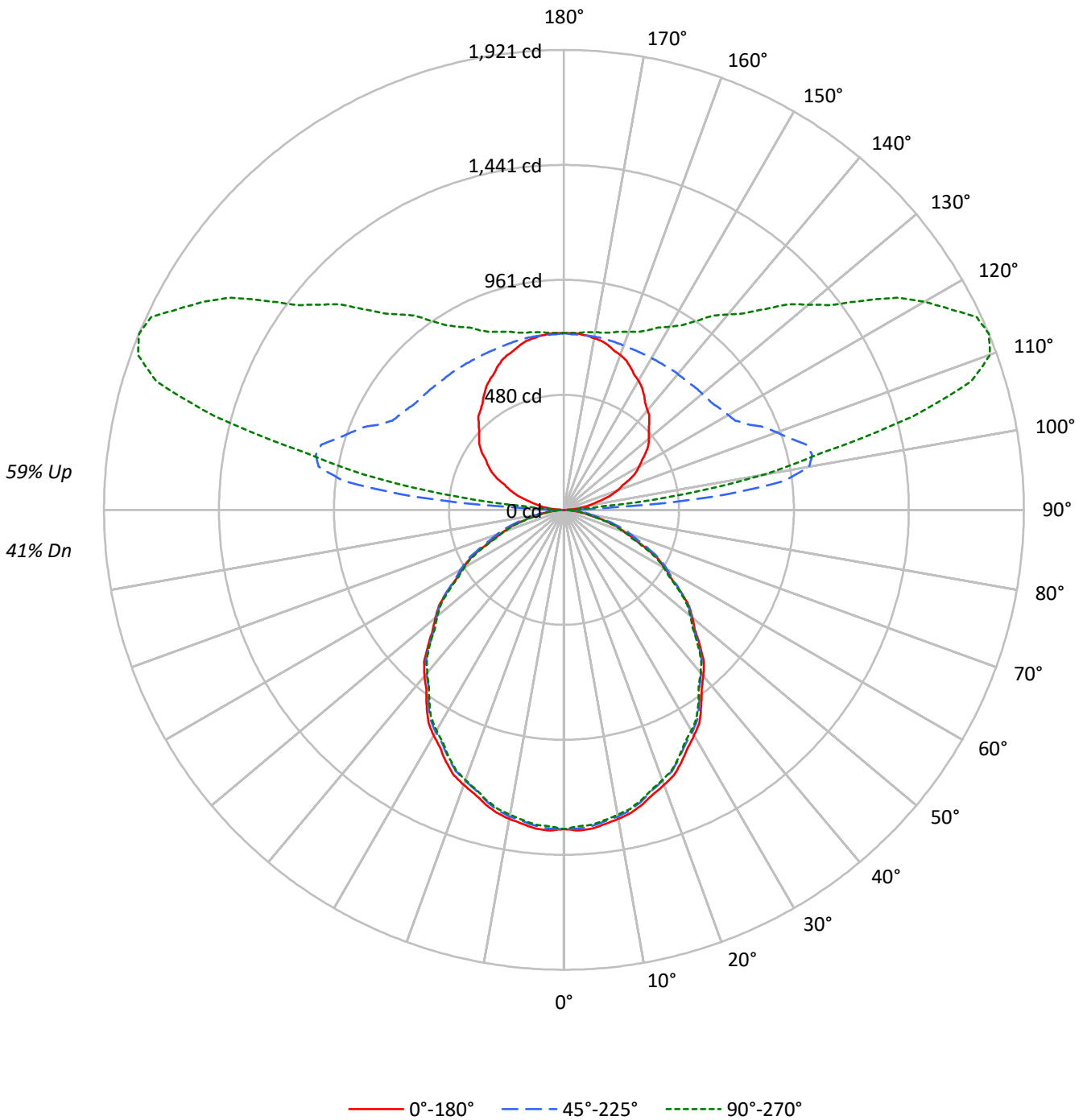
Lumens per Lamp: N/A  
Luminaire Lumens: 8187.5 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78  
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	79	79	79	63	63	63	48	48	48	41
1	96	92	88	84	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	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	31	25	21	26	21	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7158	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6113	5895
65°	5487	5760	5352
70°	4838	5302	4710
75°	4130	4746	4019
80°	3202	3995	3245
85°	2075	3070	2738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	1.5
10°-20°	354.4	4.3
20°-30°	525.7	6.4
30°-40°	615.2	7.5
40°-50°	612.4	7.5
50°-60°	528.8	6.5
60°-70°	380.7	4.6
70°-80°	199.6	2.4
80°-90°	51.0	0.6
90°-100°	345.5	4.2
100°-110°	953.9	11.7
110°-120°	983.8	12.0
120°-130°	790.5	9.7
130°-140°	621.3	7.6
140°-150°	476.5	5.8
150°-160°	342.5	4.2
160°-170°	209.4	2.6
170°-180°	70.6	0.9
0°-30°	1005.7	12.3
0°-40°	1620.9	19.8
0°-60°	2762.2	33.7
0°-90°	3393.5	41.4
90°-120°	2283.2	27.9
90°-150°	4171.5	50.9
90°-180°	4794.0	58.6
0°-180°	8187.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1337	1322	1326	1323	1320	127
15°	1272	1256	1258	1256	1253	359
25°	1163	1143	1142	1135	1138	535
35°	1000	986	986	976	980	625
45°	803	796	793	790	789	620
55°	596	594	596	587	586	531
65°	377	388	396	380	368	374
75°	174	190	200	186	169	186
85°	29	39	44	41	39	39
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
2.5°	1340.7	1329.7	1333.2	1330.2	1323.8
5°	1336.7	1321.8	1326.1	1322.6	1320.3
7.5°	1323.1	1309.3	1312.5	1308.7	1307.3
10°	1310.9	1297.1	1300.3	1295.5	1293.2
12.5°	1296.8	1282.1	1285.3	1280.5	1279.1
15°	1272.1	1256.0	1258.0	1255.6	1253.3
17.5°	1243.4	1227.1	1227.5	1223.7	1223.2
20°	1222.8	1205.5	1204.0	1199.3	1201.6
22.5°	1200.2	1182.1	1180.5	1174.0	1177.2
25°	1162.9	1143.3	1141.7	1134.8	1138.2
27.5°	1119.6	1100.3	1100.4	1090.6	1094.3
30°	1087.7	1069.3	1071.2	1059.6	1064.2
32.5°	1053.9	1037.3	1038.4	1026.7	1031.3
35°	999.6	985.8	985.5	976.2	979.6
37.5°	944.2	932.0	930.1	924.7	925.6
40°	905.6	895.3	891.5	888.0	888.0
42.5°	865.2	855.8	852.1	849.5	848.5
45°	803.4	796.5	792.9	790.5	789.3
47.5°	742.4	735.9	732.7	731.1	729.9
50°	700.1	695.5	694.2	690.6	689.5
52.5°	657.8	655.0	653.8	649.3	648.1
55°	595.5	594.4	595.5	587.3	586.1
57.5°	530.7	532.5	536.3	525.2	522.5
60°	487.5	492.1	496.9	483.8	479.2
62.5°	443.3	450.6	457.4	442.4	436.0
65°	377.0	388.5	395.8	380.3	367.7
67.5°	313.2	327.4	336.2	319.4	305.2
70°	269.0	285.1	294.8	278.0	261.9
72.5°	230.5	248.4	256.3	240.4	224.4
75°	173.8	189.9	199.7	186.4	169.1
77.5°	123.3	138.5	146.6	135.0	120.7
80°	90.4	106.5	112.8	103.1	91.6
82.5°	64.1	77.5	81.8	75.9	68.1
85°	29.4	38.6	43.5	41.1	38.8
87.5°	8.0	14.9	19.7	20.0	21.2
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)