

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: P564582

Luminaire Tested: **SQ4-PW1-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564582  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

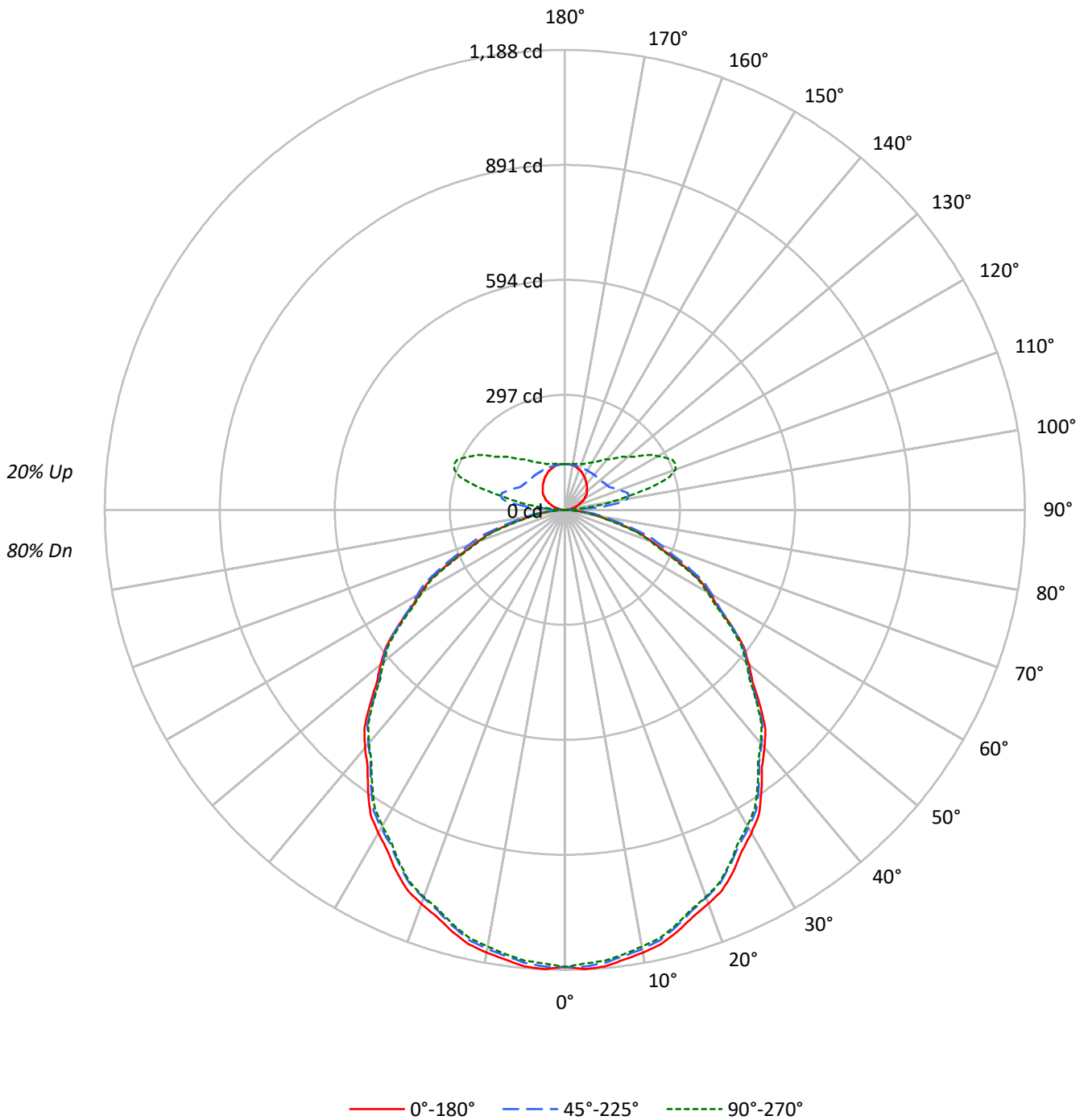
Lumens per Lamp: N/A  
Luminaire Lumens: 3773.9 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

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

	0°	45°	90°
0°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	2.9
10°-20°	314.0	8.3
20°-30°	465.7	12.3
30°-40°	544.9	14.4
40°-50°	542.5	14.4
50°-60°	468.5	12.4
60°-70°	337.2	8.9
70°-80°	176.8	4.7
80°-90°	44.5	1.2
90°-100°	57.8	1.5
100°-110°	151.9	4.0
110°-120°	157.6	4.2
120°-130°	126.4	3.3
130°-140°	99.2	2.6
140°-150°	76.1	2.0
150°-160°	54.8	1.5
160°-170°	33.5	0.9
170°-180°	11.3	0.3
0°-30°	890.9	23.6
0°-40°	1435.8	38.0
0°-60°	2446.7	64.8
0°-90°	3005.3	79.6
90°-120°	367.3	9.7
90°-150°	669.0	17.7
90°-180°	769.0	20.4
0°-180°	3773.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	34
90°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1187.6	1177.8	1180.9	1178.3	1172.6
5°	1184.1	1170.8	1174.7	1171.5	1169.5
7.5°	1172.0	1159.8	1162.6	1159.3	1158.0
10°	1161.2	1149.0	1151.8	1147.6	1145.6
12.5°	1148.7	1135.7	1138.5	1134.3	1133.1
15°	1126.8	1112.6	1114.3	1112.2	1110.2
17.5°	1101.4	1087.0	1087.3	1084.0	1083.5
20°	1083.1	1067.9	1066.5	1062.4	1064.4
22.5°	1063.2	1047.1	1045.7	1039.9	1042.8
25°	1030.1	1012.8	1011.3	1005.2	1008.2
27.5°	991.8	974.7	974.7	966.0	969.3
30°	963.5	947.2	948.9	938.6	942.7
32.5°	933.5	918.9	919.8	909.5	913.5
35°	885.4	873.2	873.0	864.7	867.8
37.5°	836.3	825.5	823.8	819.1	819.9
40°	802.2	793.0	789.7	786.6	786.6
42.5°	766.4	758.1	754.8	752.5	751.6
45°	711.7	705.6	702.3	700.2	699.2
47.5°	657.6	651.9	649.0	647.6	646.5
50°	620.1	616.1	614.9	611.8	610.8
52.5°	582.7	580.2	579.1	575.1	574.1
55°	527.5	526.5	527.5	520.2	519.2
57.5°	470.1	471.7	475.1	465.2	462.8
60°	431.8	435.9	440.1	428.6	424.5
62.5°	392.7	399.2	405.2	391.9	386.2
65°	334.0	344.2	350.6	336.9	325.7
67.5°	277.4	290.0	297.8	282.9	270.3
70°	238.3	252.5	261.2	246.3	232.0
72.5°	204.1	220.0	227.0	213.0	198.7
75°	154.0	168.2	176.9	165.1	149.8
77.5°	109.2	122.7	129.9	119.6	107.0
80°	80.1	94.4	99.9	91.3	81.2
82.5°	56.8	68.6	72.4	67.3	60.3
85°	26.0	34.2	38.5	36.4	34.3
87.5°	6.8	12.8	17.0	16.4	17.3
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)