

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: P564550

Luminaire Tested: **SQ4-PW1-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564550  
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-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

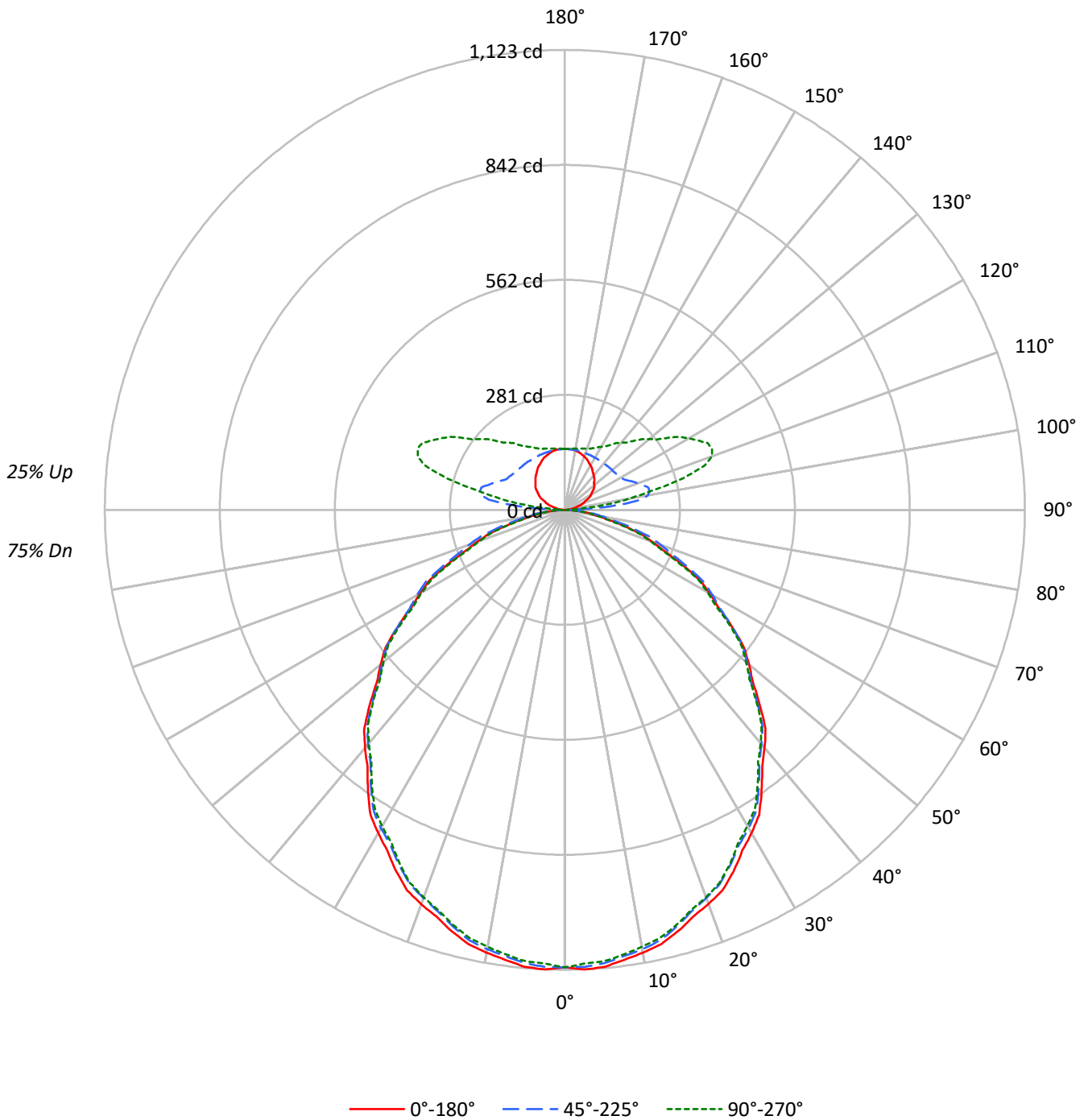
Lumens per Lamp: N/A  
Luminaire Lumens: 3808.4 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

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

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10151
15°	10179	10067	10029
20°	10058	9904	9884
25°	9917	9737	9708
30°	9707	9562	9499
35°	9432	9299	9244
40°	9138	8996	8961
45°	8782	8666	8629
50°	8418	8348	8291
55°	8025	8025	7898
60°	7536	7682	7409
65°	6896	7239	6724
70°	6080	6663	5918
75°	5190	5964	5051
80°	4027	5021	4081
85°	2604	3853	3440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	2.8
10°-20°	296.9	7.8
20°-30°	440.5	11.6
30°-40°	515.4	13.5
40°-50°	513.1	13.5
50°-60°	443.1	11.6
60°-70°	318.9	8.4
70°-80°	167.2	4.4
80°-90°	42.3	1.1
90°-100°	72.6	1.9
100°-110°	190.9	5.0
110°-120°	198.0	5.2
120°-130°	158.8	4.2
130°-140°	124.6	3.3
140°-150°	95.6	2.5
150°-160°	68.9	1.8
160°-170°	42.1	1.1
170°-180°	14.2	0.4
0°-30°	842.6	22.1
0°-40°	1357.9	35.7
0°-60°	2314.1	60.8
0°-90°	2842.5	74.6
90°-120°	461.6	12.1
90°-150°	840.6	22.1
90°-180°	966.0	25.4
0°-180°	3808.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1120	1107	1111	1108	1106	106
15°	1066	1052	1054	1052	1050	300
25°	974	958	956	951	954	448
35°	837	826	826	818	821	524
45°	673	667	664	662	661	519
55°	499	498	499	492	491	445
65°	316	326	332	319	308	313
75°	146	159	167	156	142	156
85°	25	32	36	34	32	32
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1123.2	1114.0	1116.9	1114.4	1109.0
5°	1119.9	1107.4	1111.0	1108.0	1106.1
7.5°	1108.4	1096.9	1099.6	1096.4	1095.3
10°	1098.2	1086.7	1089.4	1085.4	1083.5
12.5°	1086.4	1074.1	1076.8	1072.8	1071.6
15°	1065.7	1052.3	1053.9	1051.9	1050.0
17.5°	1041.7	1028.1	1028.3	1025.2	1024.8
20°	1024.4	1010.0	1008.7	1004.8	1006.7
22.5°	1005.5	990.3	989.0	983.5	986.2
25°	974.2	957.9	956.5	950.7	953.6
27.5°	938.0	921.8	921.9	913.7	916.8
30°	911.2	895.8	897.5	887.7	891.6
32.5°	882.9	869.0	869.9	860.2	864.0
35°	837.4	825.9	825.6	817.8	820.7
37.5°	791.0	780.8	779.2	774.7	775.4
40°	758.7	750.1	746.9	744.0	744.0
42.5°	724.9	717.0	713.8	711.7	710.9
45°	673.1	667.3	664.2	662.3	661.3
47.5°	621.9	616.5	613.9	612.5	611.5
50°	586.5	582.7	581.6	578.6	577.6
52.5°	551.1	548.8	547.7	544.0	543.0
55°	498.9	498.0	498.9	492.0	491.0
57.5°	444.6	446.1	449.3	440.0	437.7
60°	408.4	412.2	416.3	405.3	401.5
62.5°	371.4	377.5	383.2	370.7	365.3
65°	315.9	325.5	331.6	318.6	308.0
67.5°	262.4	274.3	281.6	267.6	255.7
70°	225.4	238.8	247.0	232.9	219.4
72.5°	193.1	208.1	214.7	201.4	188.0
75°	145.6	159.1	167.3	156.1	141.7
77.5°	103.3	116.0	122.8	113.1	101.2
80°	75.8	89.2	94.5	86.4	76.8
82.5°	53.7	64.9	68.5	63.6	57.1
85°	24.6	32.3	36.4	34.4	32.5
87.5°	6.5	12.3	16.5	15.7	16.5
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)