

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: P565030

Luminaire Tested: **SQ4-PW1-125U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565030  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

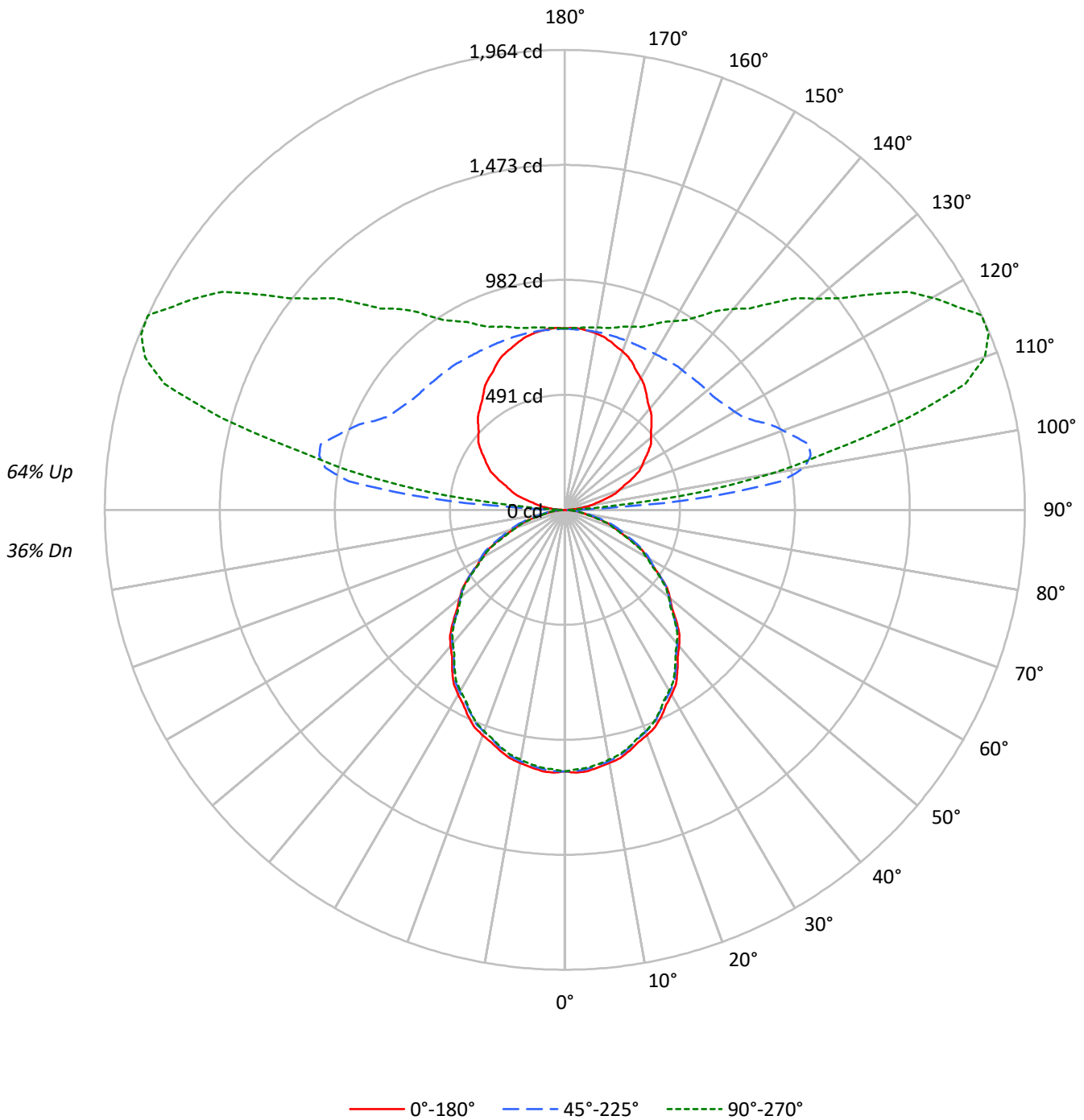
Lumens per Lamp: N/A  
Luminaire Lumens: 7842.9 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31				
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26				
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22				
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16				
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

**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	1.3
10°-20°	296.9	3.8
20°-30°	440.5	5.6
30°-40°	515.4	6.6
40°-50°	513.1	6.5
50°-60°	443.1	5.6
60°-70°	318.9	4.1
70°-80°	167.2	2.1
80°-90°	43.3	0.6
90°-100°	362.3	4.6
100°-110°	975.9	12.4
110°-120°	1024.2	13.1
120°-130°	831.1	10.6
130°-140°	651.8	8.3
140°-150°	500.4	6.4
150°-160°	359.8	4.6
160°-170°	219.8	2.8
170°-180°	74.1	0.9
0°-30°	842.6	10.7
0°-40°	1357.9	17.3
0°-60°	2314.1	29.5
0°-90°	2843.5	36.3
90°-120°	2362.3	30.1
90°-150°	4345.6	55.4
90°-180°	4999.0	63.7
0°-180°	7842.9	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°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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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°	6.7	12.9	17.3	17.5	18.3
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)