

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: P564609

Luminaire Tested: **SQ4-PW1-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564609  
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-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

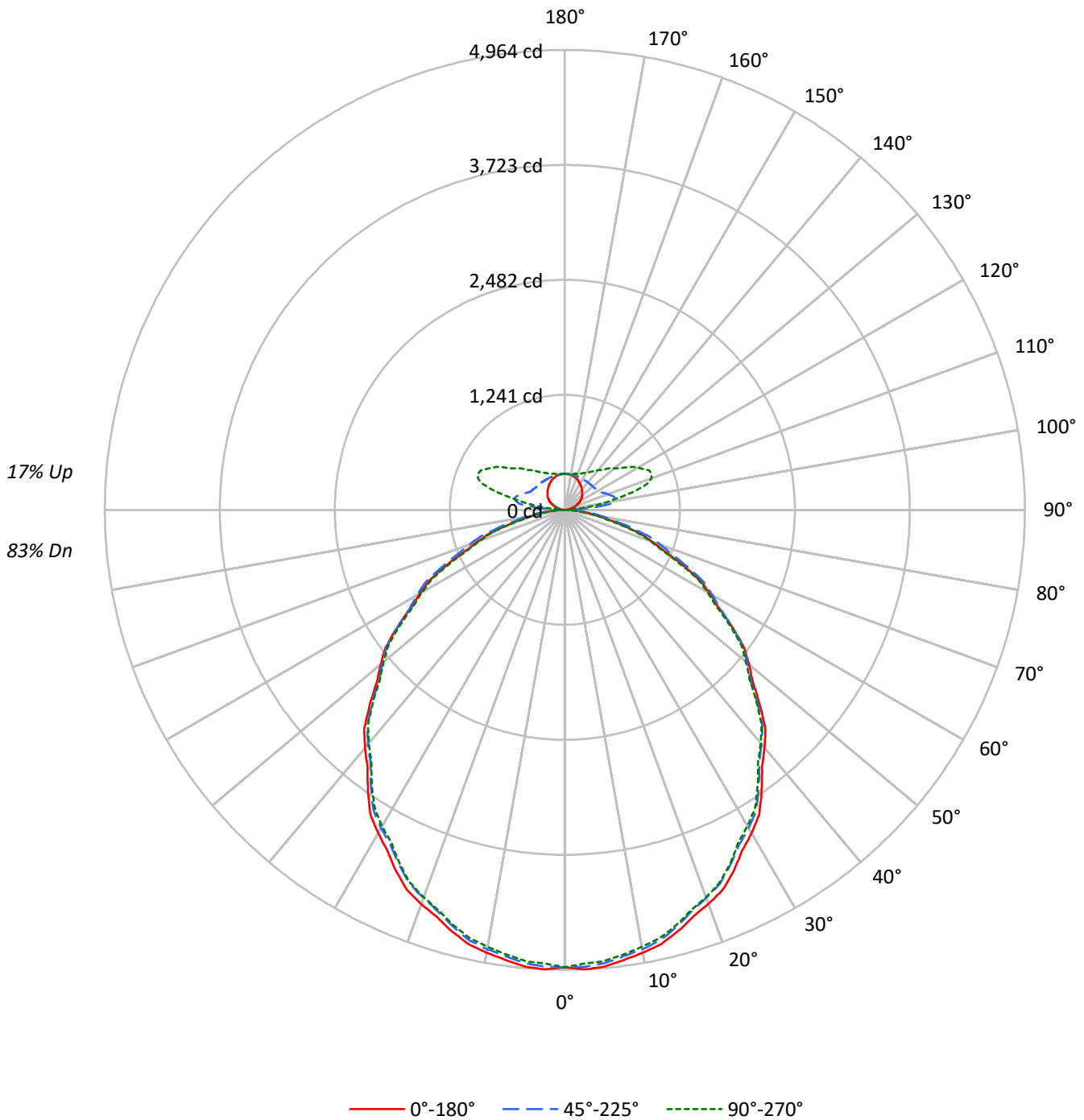
Lumens per Lamp: N/A  
Luminaire Lumens: 15080.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 156.2  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

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

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12298	12215
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7649	8786	7442
80°	5931	7394	6009
85°	3836	5678	5064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	3.1
10°-20°	1312.4	8.7
20°-30°	1946.8	12.9
30°-40°	2277.9	15.1
40°-50°	2267.7	15.0
50°-60°	1958.3	13.0
60°-70°	1409.6	9.3
70°-80°	739.2	4.9
80°-90°	185.4	1.2
90°-100°	189.3	1.3
100°-110°	497.7	3.3
110°-120°	516.1	3.4
120°-130°	414.0	2.7
130°-140°	324.8	2.2
140°-150°	249.3	1.7
150°-160°	179.6	1.2
160°-170°	109.9	0.7
170°-180°	37.1	0.2
0°-30°	3724.1	24.7
0°-40°	6002.0	39.8
0°-60°	10228.0	67.8
0°-90°	12562.2	83.3
90°-120°	1203.2	8.0
90°-150°	2191.3	14.5
90°-180°	2518.0	16.7
0°-180°	15080.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4950	4894	4910	4897	4889	469
15°	4710	4651	4658	4649	4641	1328
25°	4306	4234	4228	4202	4215	1980
35°	3701	3650	3649	3615	3627	2314
45°	2975	2950	2936	2927	2923	2295
55°	2205	2201	2205	2175	2170	1968
65°	1396	1439	1466	1408	1361	1384
75°	644	703	739	690	626	690
85°	109	143	161	152	144	143
90°	2	7	20	10	10	6
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4964.5	4923.6	4936.6	4925.6	4901.8
5°	4949.7	4894.4	4910.5	4897.3	4888.8
7.5°	4899.2	4848.2	4860.1	4846.0	4840.9
10°	4854.0	4803.0	4814.8	4797.3	4788.7
12.5°	4801.8	4747.4	4759.2	4741.7	4736.6
15°	4710.5	4650.9	4658.3	4649.4	4640.9
17.5°	4604.3	4543.9	4545.2	4531.2	4529.5
20°	4527.8	4464.0	4458.2	4441.0	4449.5
22.5°	4444.3	4377.1	4371.2	4347.1	4359.0
25°	4306.0	4233.7	4227.7	4201.9	4214.6
27.5°	4145.9	4074.4	4074.6	4038.3	4051.9
30°	4027.6	3959.5	3966.7	3923.6	3940.6
32.5°	3902.3	3841.1	3844.9	3801.8	3818.8
35°	3701.4	3650.3	3649.2	3614.7	3627.4
37.5°	3496.1	3451.0	3443.9	3424.0	3427.4
40°	3353.4	3315.2	3301.2	3288.2	3288.2
42.5°	3203.8	3168.9	3155.1	3145.4	3142.0
45°	2975.0	2949.5	2935.9	2927.1	2922.8
47.5°	2748.9	2725.0	2713.2	2707.0	2702.7
50°	2592.3	2575.3	2570.5	2557.4	2553.1
52.5°	2435.7	2425.5	2420.9	2404.3	2400.0
55°	2205.2	2200.9	2205.2	2174.6	2170.4
57.5°	1965.1	1971.9	1986.0	1944.8	1934.6
60°	1805.0	1822.0	1839.8	1791.6	1774.6
62.5°	1641.5	1668.7	1693.7	1638.3	1614.5
65°	1396.2	1438.7	1465.8	1408.2	1361.4
67.5°	1159.6	1212.3	1244.8	1182.7	1130.0
70°	996.0	1055.6	1091.7	1029.5	969.9
72.5°	853.4	919.7	949.0	890.3	830.7
75°	643.7	703.3	739.4	690.1	626.3
77.5°	456.7	512.8	542.8	499.9	447.1
80°	334.9	394.4	417.5	381.8	339.3
82.5°	237.5	286.8	302.7	281.2	252.3
85°	108.7	142.8	160.9	152.0	143.5
87.5°	28.3	53.1	70.1	68.2	71.6
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)