

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: P564593

Luminaire Tested: **SQ4-PW1-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564593  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16381.6 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

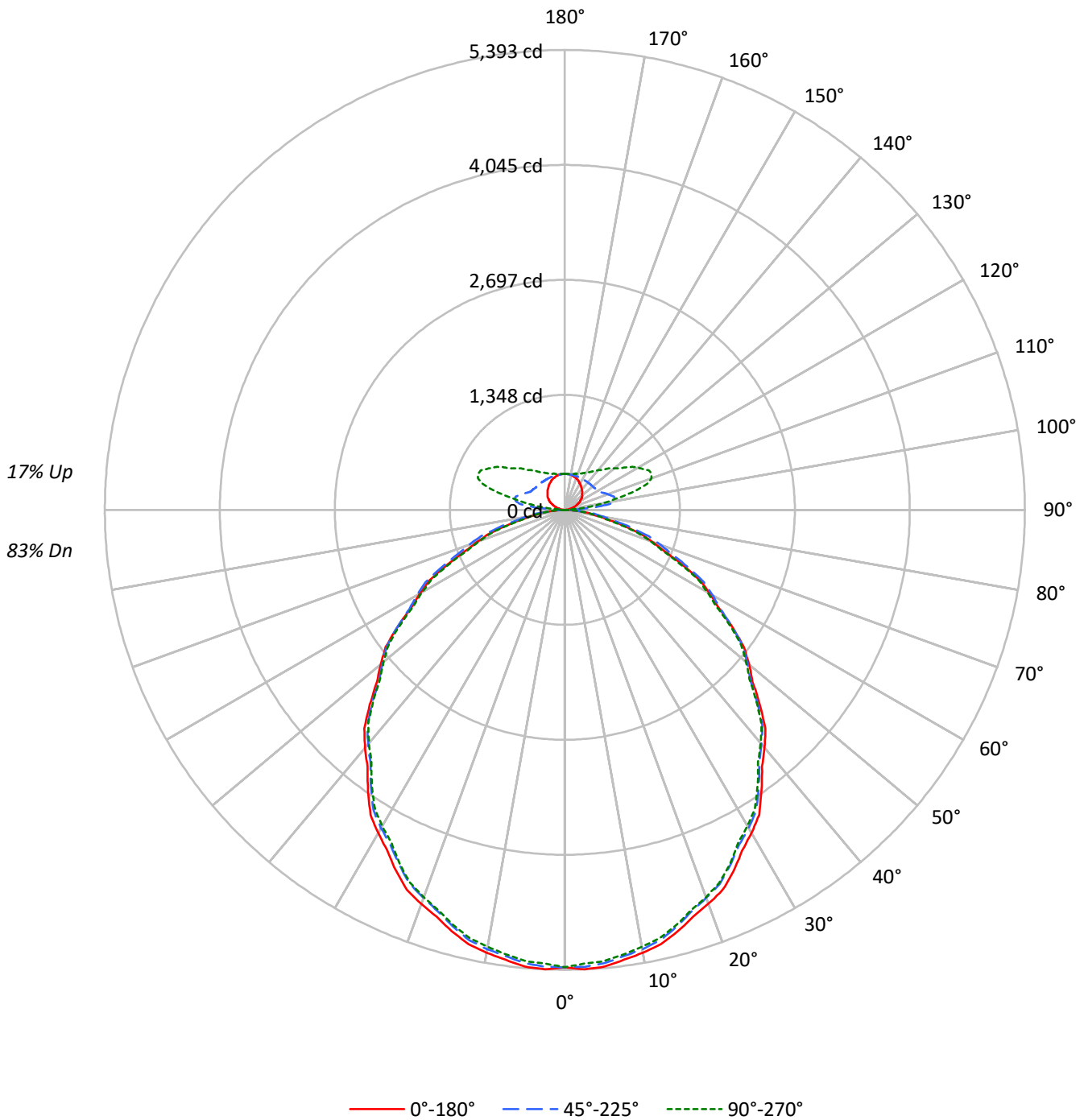
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	16492	16492	16492
5°	16599	16468	16395
10°	16467	16334	16245
15°	16292	16111	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13473	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9544	8085
80°	6443	8033	6526
85°	4167	6168	5501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.0	3.1
10°-20°	1425.7	8.7
20°-30°	2114.8	12.9
30°-40°	2474.5	15.1
40°-50°	2463.5	15.0
50°-60°	2127.3	13.0
60°-70°	1531.3	9.3
70°-80°	803.0	4.9
80°-90°	201.4	1.2
90°-100°	205.7	1.3
100°-110°	540.7	3.3
110°-120°	560.7	3.4
120°-130°	449.7	2.7
130°-140°	352.9	2.2
140°-150°	270.8	1.7
150°-160°	195.1	1.2
160°-170°	119.3	0.7
170°-180°	40.3	0.2
0°-30°	4045.5	24.7
0°-40°	6520.0	39.8
0°-60°	11110.8	67.8
0°-90°	13646.5	83.3
90°-120°	1307.0	8.0
90°-150°	2380.4	14.5
90°-180°	2735.0	16.7
0°-180°	16381.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5363	5363	5363	5363	5363	
5°	5377	5317	5334	5320	5311	509
15°	5117	5052	5060	5051	5041	1442
25°	4678	4599	4593	4564	4578	2151
35°	4021	3965	3964	3927	3940	2514
45°	3232	3204	3189	3180	3175	2494
55°	2396	2391	2396	2362	2358	2137
65°	1517	1563	1592	1530	1479	1503
75°	699	764	803	750	680	750
85°	118	155	175	165	156	156
90°	3	8	22	11	11	7
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5362.7	5362.7	5362.7	5362.7	5362.7
2.5°	5393.0	5348.6	5362.7	5350.8	5324.9
5°	5376.9	5316.9	5334.4	5320.0	5310.8
7.5°	5322.1	5266.7	5279.6	5264.3	5258.8
10°	5273.0	5217.5	5230.4	5211.3	5202.1
12.5°	5216.3	5157.1	5170.0	5150.9	5145.4
15°	5117.0	5052.4	5060.3	5050.7	5041.4
17.5°	5001.8	4936.2	4937.5	4922.3	4920.5
20°	4918.6	4849.3	4843.0	4824.3	4833.6
22.5°	4827.9	4754.9	4748.5	4722.3	4735.3
25°	4677.6	4599.1	4592.6	4564.5	4578.4
27.5°	4503.8	4426.1	4426.3	4386.9	4401.7
30°	4375.2	4301.3	4309.1	4262.3	4280.7
32.5°	4239.2	4172.6	4176.8	4130.0	4148.4
35°	4020.9	3965.4	3964.2	3926.7	3940.5
37.5°	3797.9	3748.9	3741.2	3719.5	3723.2
40°	3642.9	3601.3	3586.2	3572.0	3572.0
42.5°	3480.3	3442.5	3427.4	3416.9	3413.3
45°	3231.8	3204.1	3189.3	3179.7	3175.1
47.5°	2986.1	2960.3	2947.4	2940.7	2936.0
50°	2816.0	2797.5	2792.4	2778.1	2773.5
52.5°	2645.9	2634.8	2629.9	2611.8	2607.2
55°	2395.5	2390.9	2395.5	2362.3	2357.7
57.5°	2134.7	2142.1	2157.4	2112.7	2101.6
60°	1960.8	1979.3	1998.6	1946.2	1927.8
62.5°	1783.2	1812.7	1839.9	1779.7	1753.9
65°	1516.7	1562.9	1592.3	1529.7	1478.9
67.5°	1259.7	1316.9	1352.3	1284.8	1227.5
70°	1082.0	1146.7	1185.9	1118.3	1053.6
72.5°	927.0	999.1	1031.0	967.1	902.5
75°	699.3	764.0	803.2	749.7	680.4
77.5°	496.1	557.1	589.7	543.0	485.7
80°	363.8	428.5	453.6	414.7	368.5
82.5°	258.0	311.6	328.9	305.5	274.0
85°	118.1	155.1	174.8	165.2	155.9
87.5°	30.8	57.7	76.1	74.1	77.8
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)