

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: P563575

Luminaire Tested: **SQ4-PP3-100U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563575  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

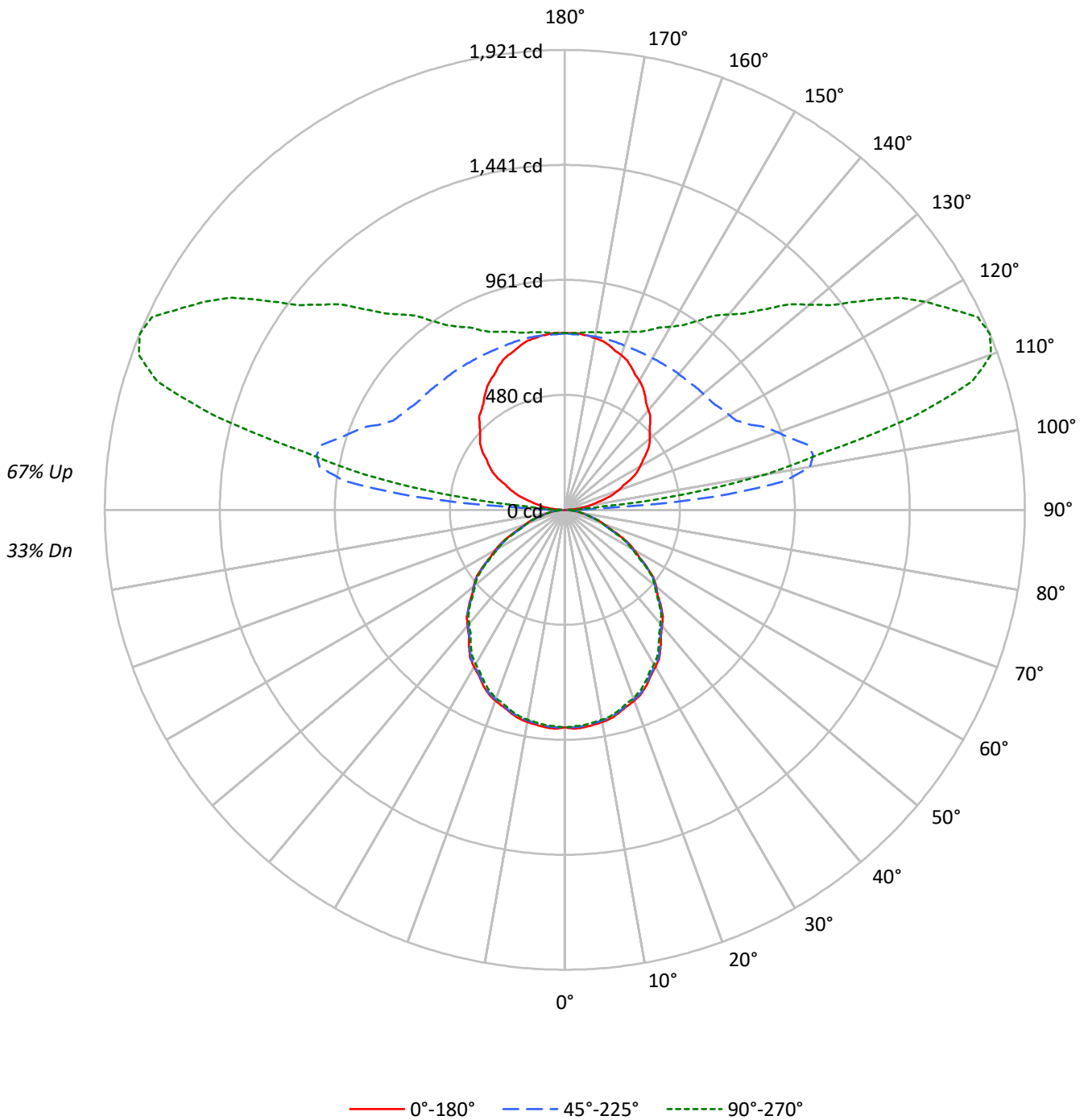
Lumens per Lamp: N/A  
Luminaire Lumens: 7122.3 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

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

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5584	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5286
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4758	4727	4681
55°	4511	4451	4417
60°	4106	3989	3970
65°	3618	3467	3455
70°	3124	2994	2994
75°	2688	2650	2614
80°	2370	2398	2341
85°	1856	2025	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	1.2
10°-20°	245.5	3.4
20°-30°	367.7	5.2
30°-40°	431.2	6.1
40°-50°	432.6	6.1
50°-60°	369.0	5.2
60°-70°	240.7	3.4
70°-80°	120.7	1.7
80°-90°	34.9	0.5
90°-100°	345.5	4.9
100°-110°	953.9	13.4
110°-120°	983.8	13.8
120°-130°	790.5	11.1
130°-140°	621.3	8.7
140°-150°	476.5	6.7
150°-160°	342.5	4.8
160°-170°	209.4	2.9
170°-180°	70.6	1.0
0°-30°	699.1	9.8
0°-40°	1130.3	15.9
0°-60°	1931.9	27.1
0°-90°	2328.3	32.7
90°-120°	2283.2	32.1
90°-150°	4171.5	58.6
90°-180°	4794.0	67.3
0°-180°	7122.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	912	904	907	904	904	87
15°	877	869	872	869	868	247
25°	808	799	802	795	794	372
35°	698	691	693	685	684	436
45°	567	563	563	558	558	437
55°	421	419	415	413	412	374
65°	249	244	238	237	237	248
75°	113	113	112	111	110	123
85°	26	29	29	29	29	31
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	907.4	909.1	907.7	904.0
5°	912.3	903.7	906.7	903.5	903.5
7.5°	906.1	896.7	899.7	896.5	896.4
10°	900.3	891.0	894.0	890.8	890.0
12.5°	892.1	882.7	886.3	882.5	882.3
15°	877.2	868.7	872.5	869.2	867.7
17.5°	860.5	851.2	855.7	851.2	850.6
20°	847.8	838.4	843.0	836.6	836.6
22.5°	832.5	823.1	828.3	820.0	820.0
25°	807.9	798.6	802.3	795.1	794.4
27.5°	778.8	769.6	773.5	765.4	765.2
30°	757.7	749.1	753.7	745.0	744.2
32.5°	734.8	726.8	730.1	721.4	720.6
35°	698.0	690.9	693.2	685.2	684.4
37.5°	659.2	652.1	654.6	647.8	647.4
40°	631.8	627.2	627.8	622.2	620.7
42.5°	606.3	601.0	601.7	596.1	595.8
45°	567.3	563.4	563.3	557.7	557.7
47.5°	525.9	522.9	522.0	517.4	517.3
50°	497.2	494.8	494.0	490.0	489.2
52.5°	467.2	466.1	463.4	460.0	459.9
55°	420.7	419.1	415.1	412.7	411.9
57.5°	370.2	367.1	362.5	359.0	359.7
60°	333.8	330.7	324.3	322.7	322.7
62.5°	298.8	295.0	288.6	286.4	287.6
65°	248.6	243.9	238.2	236.7	237.4
67.5°	203.0	198.8	192.7	192.6	192.0
70°	173.7	171.4	166.5	166.5	166.5
72.5°	147.6	146.5	142.9	142.9	142.3
75°	113.1	113.1	111.5	110.7	110.0
77.5°	84.8	85.1	84.3	83.5	82.1
80°	66.9	68.5	67.7	66.9	66.1
82.5°	50.4	51.9	51.8	50.4	50.2
85°	26.3	28.6	28.7	28.7	28.7
87.5°	7.5	10.4	12.1	12.3	13.2
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)