

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: P563383

Luminaire Tested: **SQ4-PP3-075U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563383  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

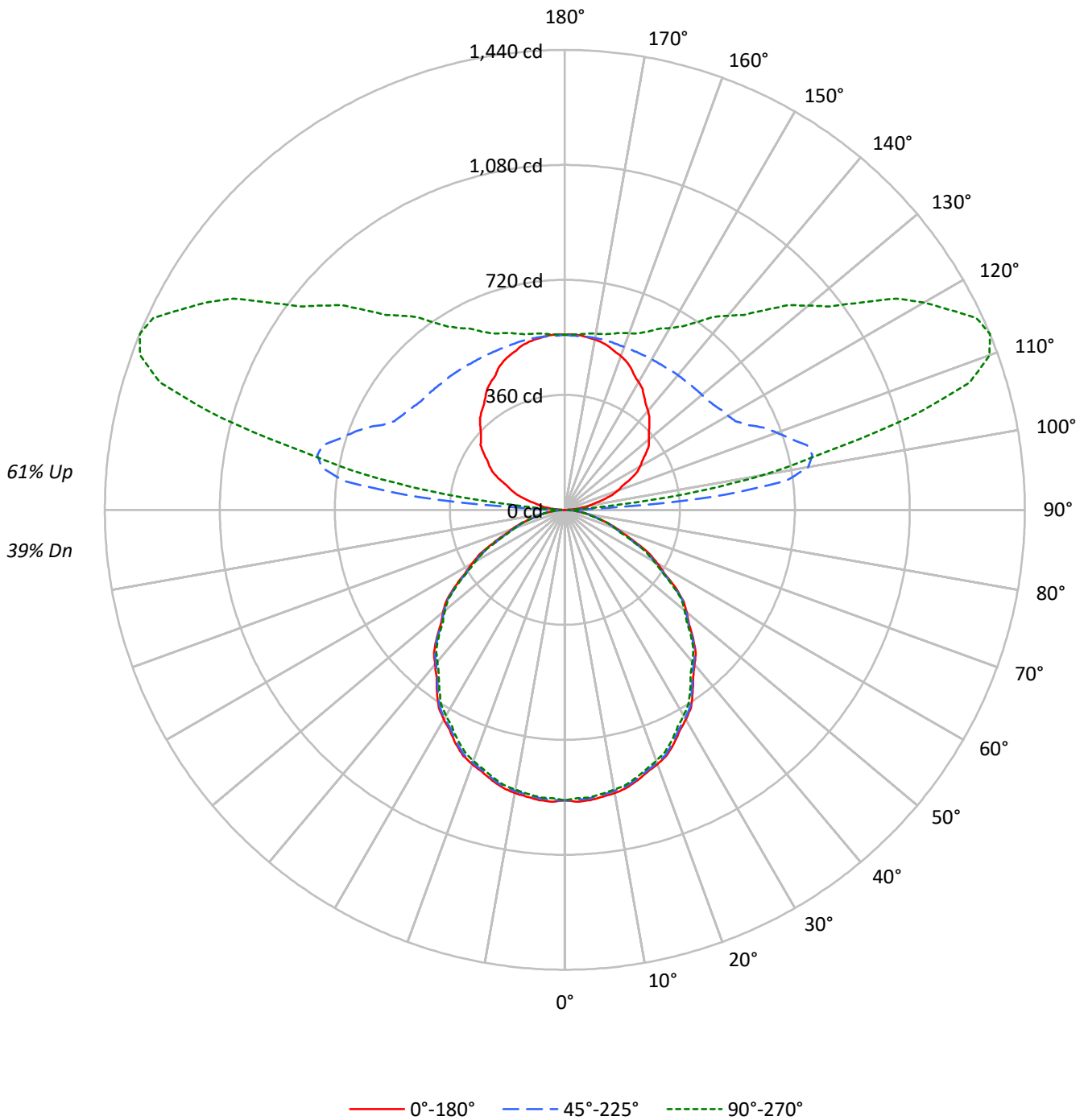
Lumens per Lamp: N/A  
Luminaire Lumens: 5901.6 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

**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	1.5
10°-20°	245.5	4.2
20°-30°	367.7	6.2
30°-40°	431.2	7.3
40°-50°	432.6	7.3
50°-60°	369.0	6.3
60°-70°	240.7	4.1
70°-80°	120.7	2.0
80°-90°	34.8	0.6
90°-100°	258.7	4.4
100°-110°	711.8	12.1
110°-120°	734.7	12.4
120°-130°	588.6	10.0
130°-140°	462.3	7.8
140°-150°	354.3	6.0
150°-160°	254.7	4.3
160°-170°	155.8	2.6
170°-180°	52.5	0.9
0°-30°	699.1	11.8
0°-40°	1130.3	19.2
0°-60°	1931.9	32.7
0°-90°	2328.2	39.4
90°-120°	1705.2	28.9
90°-150°	3110.5	52.7
90°-180°	3573.0	60.5
0°-180°	5901.6	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°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	



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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°	7.2	10.4	11.8	12.3	12.9
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)