

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: P563295

Luminaire Tested: **SQ4-PP3-050U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563295  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

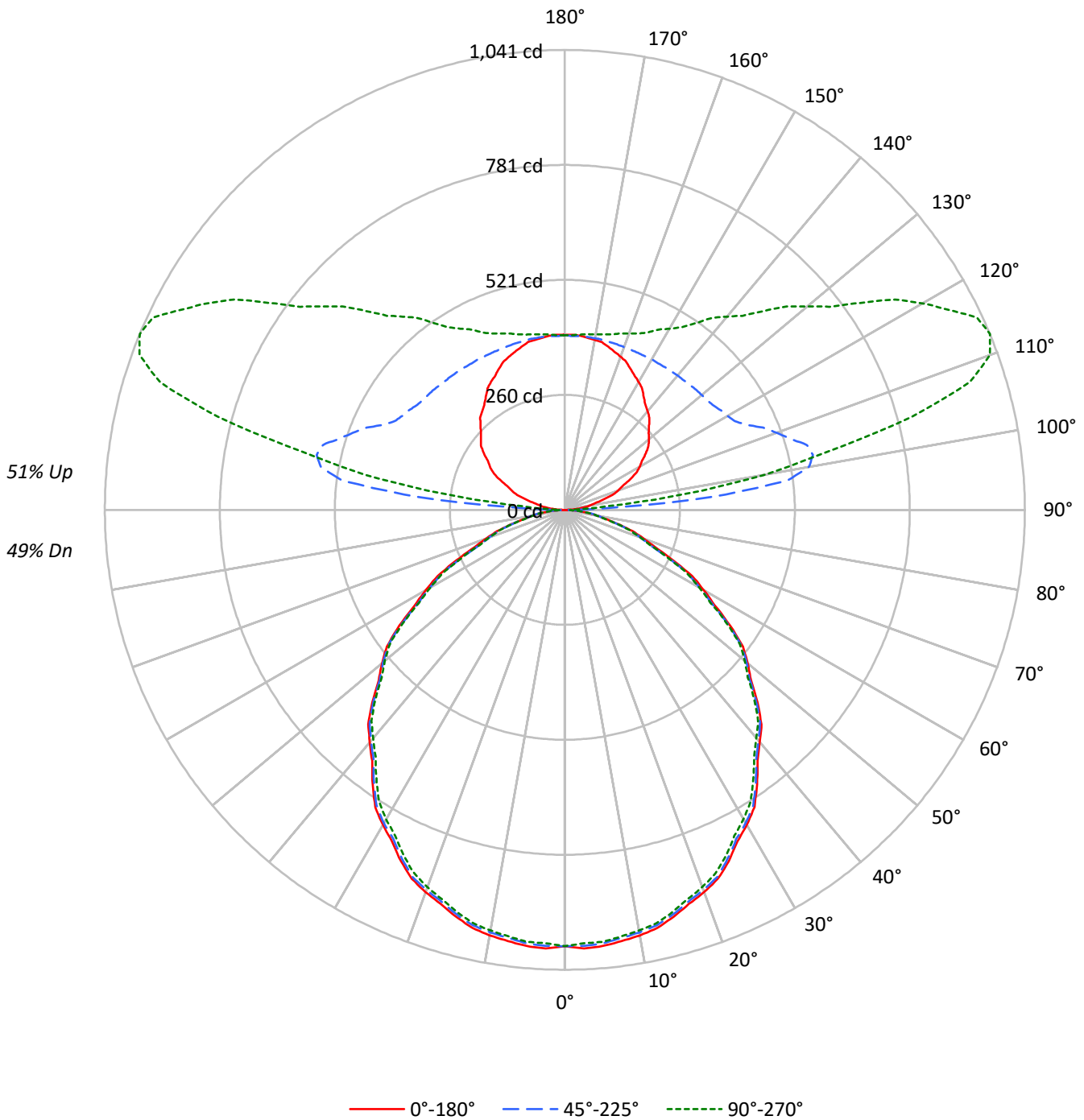
Lumens per Lamp: N/A  
Luminaire Lumens: 5112.3 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6066	6038
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5915	5857
30°	5847	5815	5742
35°	5693	5654	5583
40°	5511	5477	5414
45°	5361	5324	5270
50°	5168	5136	5086
55°	4901	4836	4799
60°	4462	4334	4313
65°	3931	3767	3753
70°	3394	3253	3253
75°	2921	2880	2838
80°	2575	2607	2543
85°	2018	2202	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.8
10°-20°	266.7	5.2
20°-30°	399.4	7.8
30°-40°	468.5	9.2
40°-50°	470.0	9.2
50°-60°	400.9	7.8
60°-70°	261.5	5.1
70°-80°	131.2	2.6
80°-90°	37.8	0.7
90°-100°	189.9	3.7
100°-110°	515.9	10.1
110°-120°	530.4	10.4
120°-130°	424.1	8.3
130°-140°	333.2	6.5
140°-150°	255.5	5.0
150°-160°	183.7	3.6
160°-170°	112.4	2.2
170°-180°	37.9	0.7
0°-30°	759.5	14.9
0°-40°	1227.9	24.0
0°-60°	2098.8	41.1
0°-90°	2529.3	49.5
90°-120°	1236.2	24.2
90°-150°	2249.0	44.0
90°-180°	2583.0	50.5
0°-180°	5112.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	991	982	985	982	982	94
15°	953	944	948	944	943	269
25°	878	868	872	864	863	404
35°	758	751	753	744	744	474
45°	616	612	612	606	606	475
55°	457	455	451	448	448	406
65°	270	265	259	257	258	270
75°	123	123	121	120	119	133
85°	29	31	31	31	31	34
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	



TEST NUMBER: P563295

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.6	987.6	987.6	987.6	987.6
2.5°	993.8	985.7	987.6	986.1	982.1
5°	991.1	981.8	985.0	981.6	981.6
7.5°	984.3	974.2	977.4	973.9	973.8
10°	978.1	967.9	971.2	967.7	966.8
12.5°	969.1	958.9	962.9	958.7	958.5
15°	953.0	943.7	947.8	944.3	942.6
17.5°	934.8	924.7	929.6	924.8	924.1
20°	921.0	910.8	915.8	908.9	908.9
22.5°	904.3	894.2	899.8	890.8	890.8
25°	877.7	867.5	871.6	863.8	863.0
27.5°	846.0	836.0	840.3	831.5	831.3
30°	823.2	813.8	818.8	809.3	808.4
32.5°	798.2	789.6	793.2	783.7	782.8
35°	758.2	750.6	753.0	744.4	743.5
37.5°	716.2	708.4	711.2	703.7	703.4
40°	686.4	681.3	682.1	676.0	674.3
42.5°	658.7	652.9	653.7	647.6	647.3
45°	616.3	612.1	612.0	605.9	605.9
47.5°	571.3	568.1	567.1	562.1	561.9
50°	540.1	537.6	536.7	532.3	531.5
52.5°	507.6	506.4	503.4	499.8	499.6
55°	457.0	455.3	451.0	448.3	447.5
57.5°	402.1	398.8	393.8	390.0	390.7
60°	362.7	359.3	352.3	350.6	350.6
62.5°	324.6	320.5	313.5	311.1	312.5
65°	270.1	265.0	258.8	257.1	257.9
67.5°	220.5	216.0	209.3	209.3	208.6
70°	188.7	186.2	180.9	180.9	180.9
72.5°	160.3	159.1	155.3	155.3	154.6
75°	122.9	122.9	121.2	120.3	119.4
77.5°	92.1	92.4	91.6	90.7	89.2
80°	72.7	74.4	73.6	72.7	71.8
82.5°	54.7	56.4	56.3	54.7	54.5
85°	28.6	31.1	31.2	31.2	31.2
87.5°	7.9	11.3	12.9	13.4	14.1
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)