

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: P563334

Luminaire Tested: **SQ4-PP3-050U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563334  
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-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

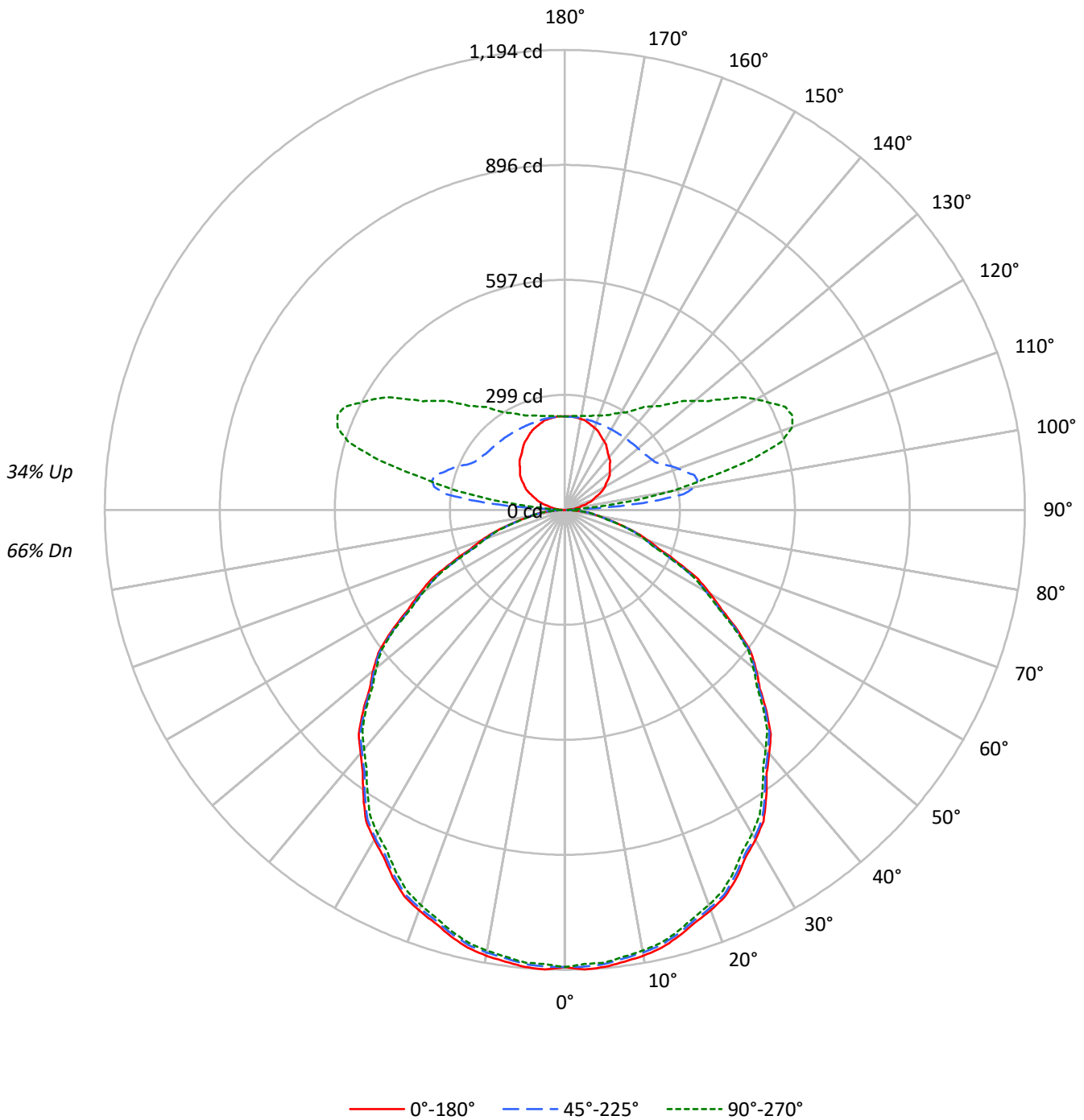
Lumens per Lamp: N/A  
Luminaire Lumens: 4623.8 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10964	10925
10°	11013	10934	10885
15°	10940	10879	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10540	10484	10351
35°	10263	10193	10065
40°	9935	9872	9759
45°	9663	9595	9501
50°	9317	9257	9168
55°	8834	8718	8651
60°	8043	7813	7774
65°	7084	6789	6768
70°	6118	5864	5864
75°	5265	5190	5119
80°	4644	4697	4585
85°	3631	3959	3959



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.2	2.4
10°-20°	320.5	6.9
20°-30°	480.0	10.4
30°-40°	563.0	12.2
40°-50°	564.8	12.2
50°-60°	481.8	10.4
60°-70°	314.2	6.8
70°-80°	157.6	3.4
80°-90°	44.5	1.0
90°-100°	116.5	2.5
100°-110°	316.6	6.8
110°-120°	325.5	7.0
120°-130°	260.2	5.6
130°-140°	204.5	4.4
140°-150°	156.8	3.4
150°-160°	112.8	2.4
160°-170°	69.0	1.5
170°-180°	23.2	0.5
0°-30°	912.7	19.7
0°-40°	1475.7	31.9
0°-60°	2522.3	54.6
0°-90°	3038.7	65.7
90°-120°	758.6	16.4
90°-150°	1380.1	29.8
90°-180°	1585.0	34.3
0°-180°	4623.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1145	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	911	902	905	895	894	569
45°	741	736	735	728	728	570
55°	549	547	542	539	538	488
65°	324	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	37	37	37	37	40
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1194.4	1184.6	1186.9	1185.1	1180.2
5°	1191.1	1179.9	1183.8	1179.6	1179.6
7.5°	1182.9	1170.7	1174.6	1170.5	1170.3
10°	1175.5	1163.2	1167.1	1162.9	1161.9
12.5°	1164.6	1152.4	1157.1	1152.1	1151.9
15°	1145.3	1134.1	1139.0	1134.8	1132.8
17.5°	1123.4	1111.2	1117.2	1111.4	1110.5
20°	1106.8	1094.6	1100.6	1092.2	1092.2
22.5°	1086.8	1074.6	1081.4	1070.6	1070.6
25°	1054.8	1042.6	1047.5	1038.1	1037.1
27.5°	1016.7	1004.7	1009.8	999.2	999.0
30°	989.3	978.1	984.1	972.6	971.6
32.5°	959.3	948.9	953.3	941.8	940.8
35°	911.2	902.1	905.0	894.6	893.6
37.5°	860.7	851.3	854.6	845.7	845.3
40°	824.9	818.8	819.7	812.4	810.3
42.5°	791.6	784.7	785.6	778.3	777.9
45°	740.6	735.6	735.4	728.2	728.2
47.5°	686.5	682.7	681.6	675.5	675.3
50°	649.1	646.0	644.9	639.7	638.7
52.5°	610.0	608.6	605.0	600.6	600.4
55°	549.2	547.2	542.0	538.8	537.8
57.5°	483.3	479.2	473.3	468.7	469.6
60°	435.9	431.8	423.4	421.3	421.3
62.5°	390.1	385.2	376.8	373.9	375.5
65°	324.5	318.4	311.0	309.0	310.0
67.5°	265.0	259.6	251.5	251.5	250.7
70°	226.8	223.7	217.4	217.4	217.4
72.5°	192.6	191.2	186.6	186.6	185.8
75°	147.7	147.7	145.6	144.6	143.6
77.5°	110.7	111.1	110.1	109.0	107.1
80°	87.4	89.4	88.4	87.4	86.3
82.5°	65.7	67.8	67.6	65.7	65.5
85°	34.3	37.4	37.4	37.4	37.4
87.5°	9.3	13.0	14.4	14.7	15.6
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)