

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: P564704

Luminaire Tested: **SQ4-PW1-050U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564704  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

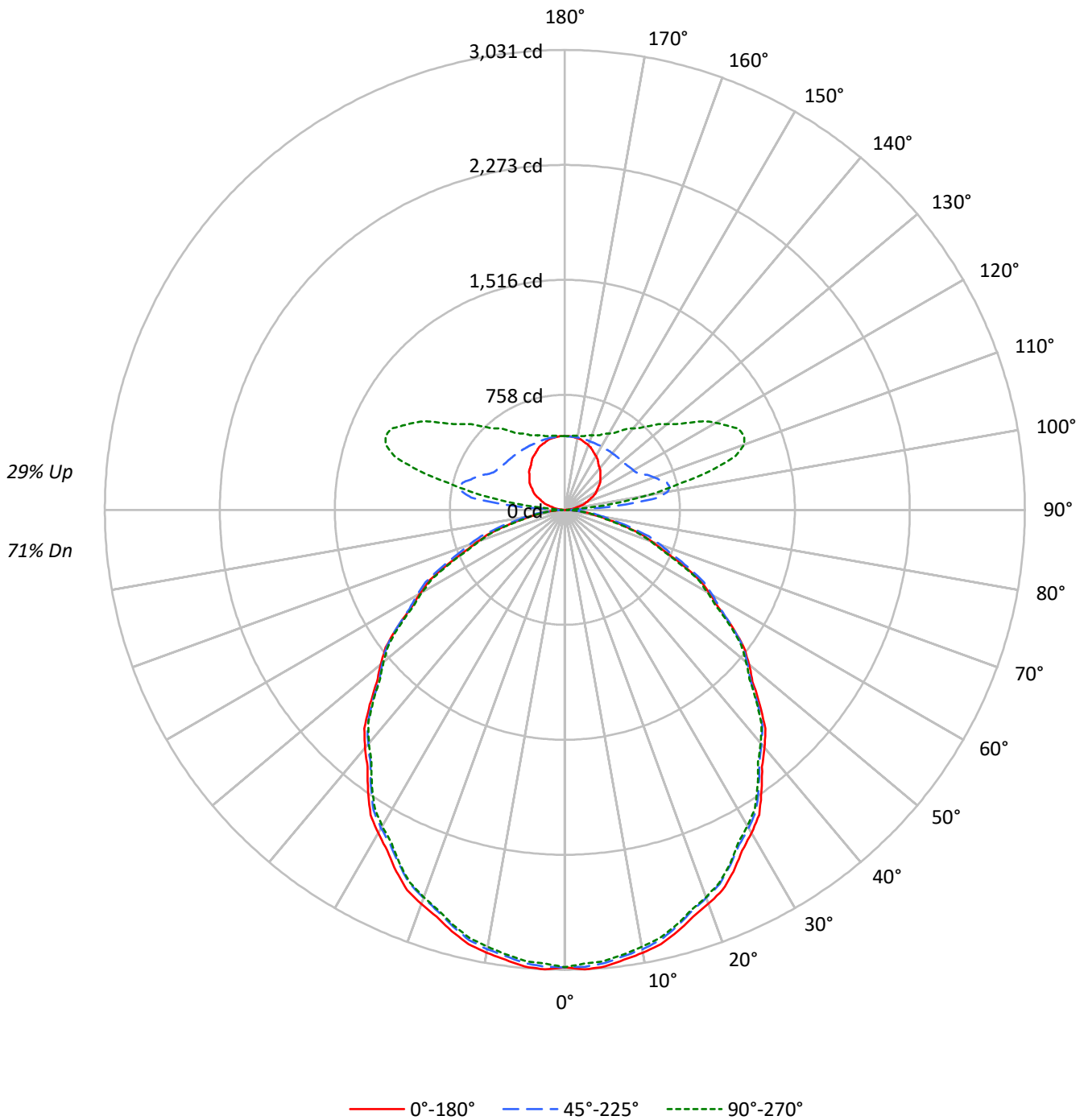
Lumens per Lamp: N/A  
Luminaire Lumens: 10840.6 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 114.8  
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13883	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13336
25°	13382	13138	13098
30°	13098	12901	12816
35°	12727	12547	12472
40°	12329	12138	12090
45°	11850	11694	11642
50°	11359	11263	11187
55°	10829	10829	10657
60°	10168	10364	9997
65°	9304	9768	9073
70°	8202	8990	7987
75°	7005	8046	6816
80°	5433	6772	5502
85°	3515	5203	4637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.8	2.6
10°-20°	801.3	7.4
20°-30°	1188.6	11.0
30°-40°	1390.8	12.8
40°-50°	1384.6	12.8
50°-60°	1195.6	11.0
60°-70°	860.6	7.9
70°-80°	451.3	4.2
80°-90°	113.8	1.0
90°-100°	233.1	2.2
100°-110°	633.2	5.8
110°-120°	651.0	6.0
120°-130°	520.5	4.8
130°-140°	409.0	3.8
140°-150°	313.6	2.9
150°-160°	225.5	2.1
160°-170°	137.9	1.3
170°-180°	46.5	0.4
0°-30°	2273.7	21.0
0°-40°	3664.5	33.8
0°-60°	6244.7	57.6
0°-90°	7670.4	70.8
90°-120°	1517.2	14.0
90°-150°	2760.3	25.5
90°-180°	3170.0	29.2
0°-180°	10840.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3022	2988	2998	2990	2985	286
15°	2876	2840	2844	2839	2834	811
25°	2629	2585	2581	2565	2573	1209
35°	2260	2229	2228	2207	2215	1413
45°	1816	1801	1792	1787	1784	1401
55°	1346	1344	1346	1328	1325	1201
65°	852	878	895	860	831	845
75°	393	429	451	421	382	421
85°	66	87	98	93	88	88
90°	2	6	11	14	14	5
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3031.1	3006.1	3014.1	3007.4	2992.8
5°	3022.0	2988.3	2998.1	2990.0	2984.9
7.5°	2991.2	2960.1	2967.3	2958.8	2955.6
10°	2963.6	2932.4	2939.7	2929.0	2923.8
12.5°	2931.7	2898.5	2905.7	2895.0	2891.9
15°	2876.0	2839.6	2844.1	2838.7	2833.5
17.5°	2811.2	2774.3	2775.1	2766.5	2765.5
20°	2764.4	2725.5	2721.9	2711.4	2716.6
22.5°	2713.5	2672.4	2668.8	2654.1	2661.4
25°	2629.0	2584.9	2581.2	2565.4	2573.2
27.5°	2531.3	2487.7	2487.7	2465.6	2473.9
30°	2459.0	2417.5	2421.9	2395.6	2405.9
32.5°	2382.6	2345.2	2347.5	2321.2	2331.6
35°	2259.9	2228.7	2228.0	2206.9	2214.7
37.5°	2134.5	2107.0	2102.7	2090.5	2092.6
40°	2047.4	2024.1	2015.6	2007.6	2007.6
42.5°	1956.1	1934.8	1926.3	1920.5	1918.4
45°	1816.4	1800.8	1792.5	1787.1	1784.5
47.5°	1678.3	1663.8	1656.5	1652.8	1650.2
50°	1582.7	1572.3	1569.4	1561.4	1558.8
52.5°	1487.1	1480.9	1478.1	1467.9	1465.3
55°	1346.4	1343.8	1346.4	1327.7	1325.1
57.5°	1199.8	1203.9	1212.5	1187.4	1181.2
60°	1102.1	1112.4	1123.3	1093.9	1083.5
62.5°	1002.2	1018.8	1034.1	1000.3	985.7
65°	852.4	878.4	894.9	859.8	831.2
67.5°	708.0	740.2	760.0	722.1	689.9
70°	608.1	644.5	666.5	628.5	592.2
72.5°	521.0	561.5	579.4	543.6	507.2
75°	393.0	429.4	451.4	421.3	382.4
77.5°	278.8	313.1	331.4	305.2	273.0
80°	204.5	240.8	254.9	233.1	207.1
82.5°	145.0	175.1	184.8	171.7	154.0
85°	66.4	87.2	98.3	92.8	87.6
87.5°	17.3	32.8	42.6	43.2	45.3
90°	1.6	6.1	10.9	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)