

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: P564708

Luminaire Tested: **SQ4-PW1-050U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564708  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

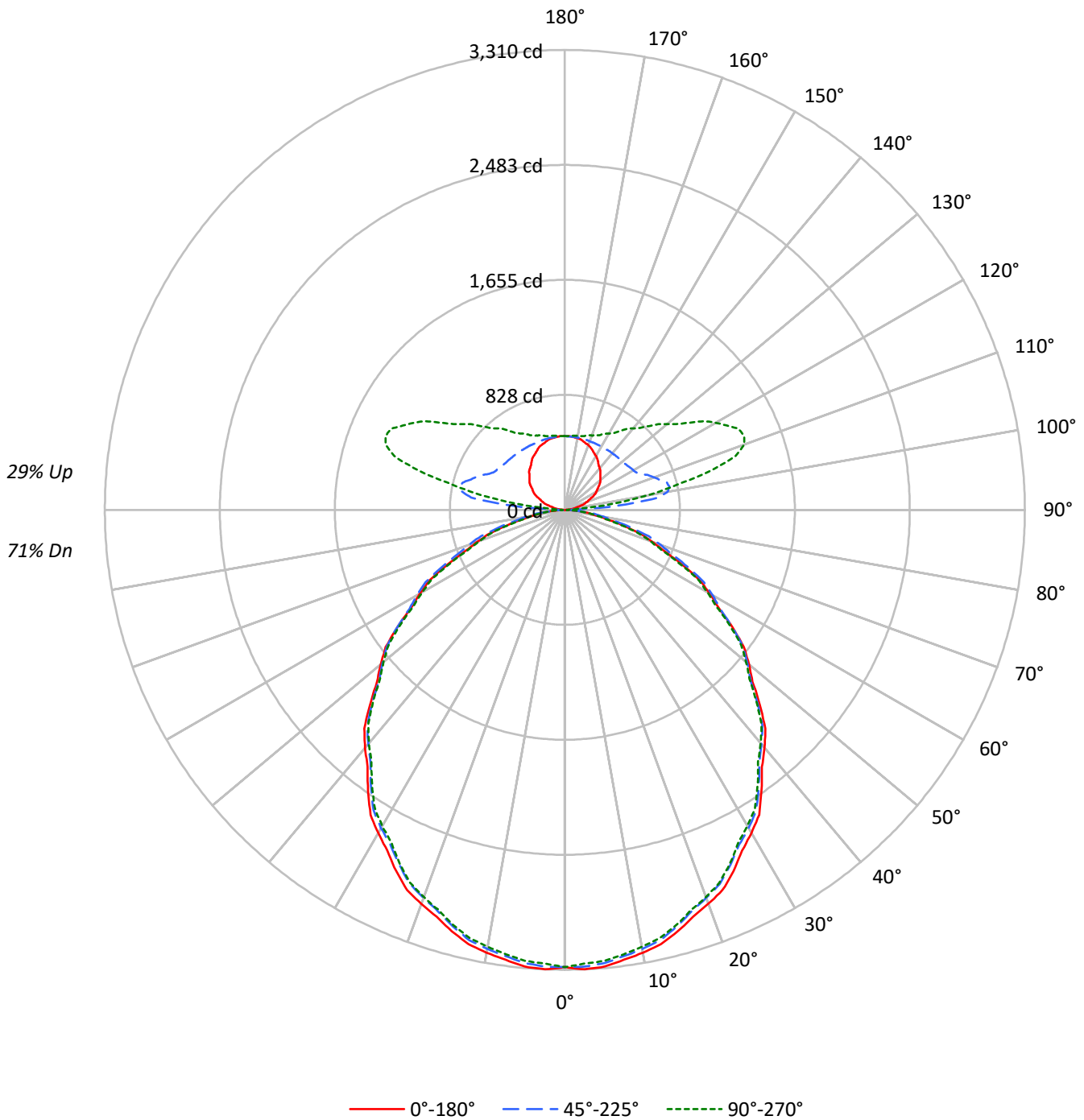
Lumens per Lamp: N/A  
Luminaire Lumens: 11837.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14998	14831	14776
20°	14818	14591	14562
25°	14611	14346	14301
30°	14303	14087	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12299	12215
55°	11824	11824	11637
60°	11102	11316	10916
65°	10160	10667	9907
70°	8956	9816	8721
75°	7648	8785	7441
80°	5932	7396	6009
85°	3837	5679	5065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.9	2.6
10°-20°	875.0	7.4
20°-30°	1297.8	11.0
30°-40°	1518.6	12.8
40°-50°	1511.8	12.8
50°-60°	1305.5	11.0
60°-70°	939.7	7.9
70°-80°	492.8	4.2
80°-90°	124.2	1.0
90°-100°	254.5	2.2
100°-110°	691.4	5.8
110°-120°	710.8	6.0
120°-130°	568.3	4.8
130°-140°	446.6	3.8
140°-150°	342.4	2.9
150°-160°	246.2	2.1
160°-170°	150.6	1.3
170°-180°	50.7	0.4
0°-30°	2482.7	21.0
0°-40°	4001.3	33.8
0°-60°	6818.7	57.6
0°-90°	8375.4	70.8
90°-120°	1656.7	14.0
90°-150°	3014.0	25.5
90°-180°	3462.0	29.2
0°-180°	11837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3300	3263	3274	3265	3259	313
15°	3140	3101	3106	3100	3094	885
25°	2871	2822	2818	2801	2810	1320
35°	2468	2434	2433	2410	2418	1543
45°	1983	1966	1957	1951	1949	1530
55°	1470	1467	1470	1450	1447	1312
65°	931	959	977	939	908	922
75°	429	469	493	460	418	460
85°	72	95	107	101	96	96
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3291.1	3291.1	3291.1	3291.1	3291.1
2.5°	3309.6	3282.4	3291.1	3283.8	3267.9
5°	3299.8	3262.9	3273.7	3264.9	3259.2
7.5°	3266.1	3232.1	3240.1	3230.7	3227.3
10°	3236.0	3202.0	3209.9	3198.2	3192.5
12.5°	3201.2	3164.9	3172.8	3161.1	3157.7
15°	3140.3	3100.6	3105.5	3099.6	3093.9
17.5°	3069.6	3029.3	3030.1	3020.8	3019.7
20°	3018.5	2976.0	2972.1	2960.7	2966.3
22.5°	2962.8	2918.0	2914.1	2898.1	2906.0
25°	2870.6	2822.4	2818.4	2801.2	2809.7
27.5°	2763.9	2716.3	2716.4	2692.2	2701.3
30°	2685.1	2639.7	2644.5	2615.7	2627.1
32.5°	2601.6	2560.7	2563.3	2534.5	2545.9
35°	2467.6	2433.6	2432.8	2409.8	2418.3
37.5°	2330.7	2300.7	2295.9	2282.6	2284.9
40°	2235.6	2210.1	2200.8	2192.1	2192.1
42.5°	2135.9	2112.6	2103.4	2097.0	2094.7
45°	1983.3	1966.3	1957.3	1951.4	1948.6
47.5°	1832.6	1816.7	1808.8	1804.7	1801.8
50°	1728.2	1716.8	1713.7	1704.9	1702.1
52.5°	1623.8	1617.0	1613.9	1602.9	1600.0
55°	1470.1	1467.3	1470.1	1449.8	1446.9
57.5°	1310.1	1314.6	1324.0	1296.6	1289.8
60°	1203.3	1214.7	1226.5	1194.4	1183.1
62.5°	1094.3	1112.5	1129.1	1092.2	1076.3
65°	930.8	959.1	977.2	938.8	907.6
67.5°	773.0	808.2	829.9	788.5	753.3
70°	664.0	703.7	727.8	686.3	646.6
72.5°	568.9	613.1	632.7	593.5	553.8
75°	429.1	468.8	492.9	460.1	417.5
77.5°	304.5	341.9	361.9	333.2	298.1
80°	223.3	263.0	278.4	254.5	226.2
82.5°	158.3	191.2	201.8	187.5	168.2
85°	72.5	95.2	107.3	101.4	95.7
87.5°	18.9	35.8	46.5	47.2	49.5
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)