

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: P519444

Luminaire Tested: **SQ4-WB-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519444  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-100U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

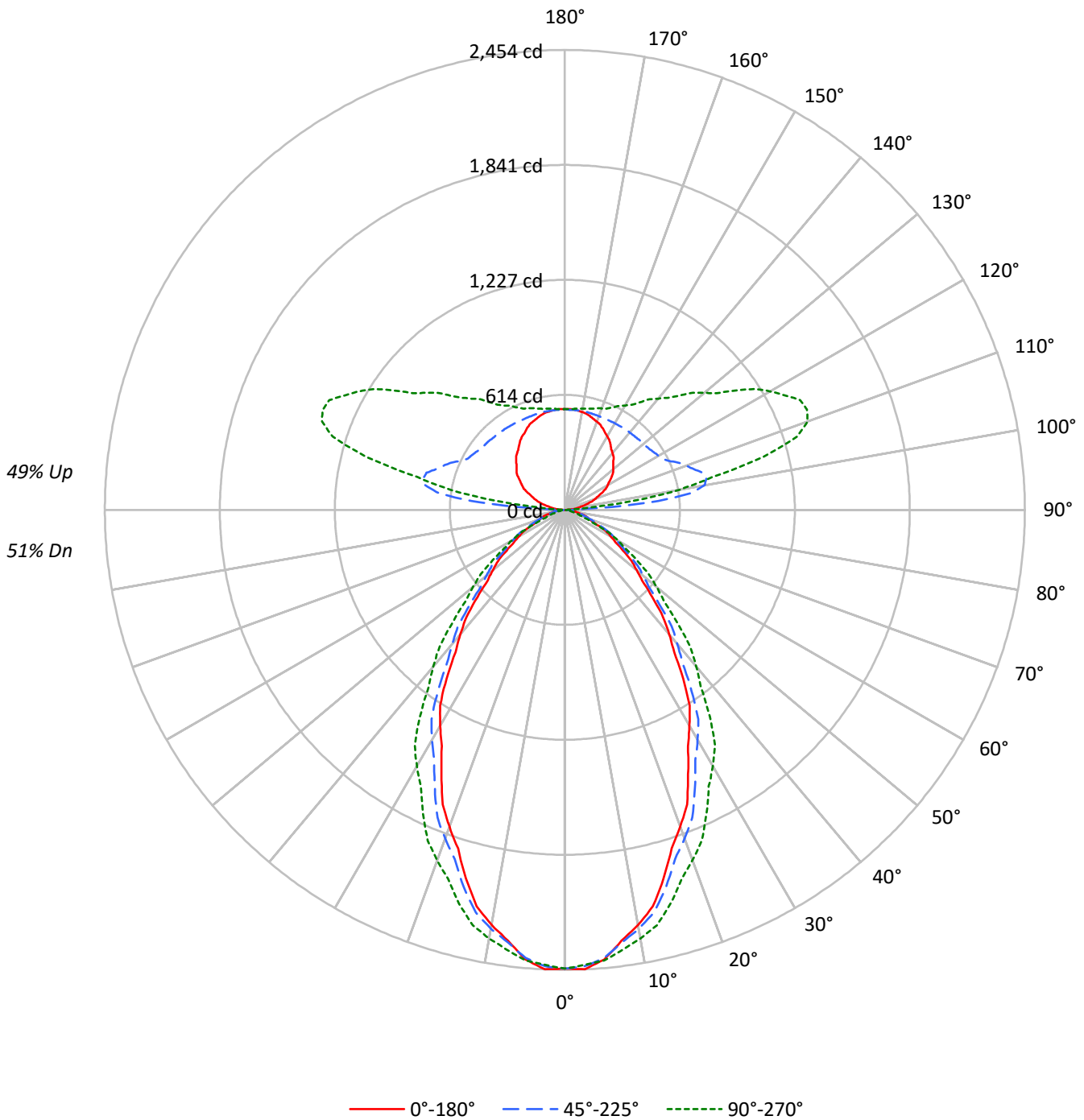
Lumens per Lamp: N/A  
Luminaire Lumens: 7057.7 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.7  
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	84	84	84	70	70	70	57	57	57	51
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

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

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21755
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6098	6720	7550
60°	5213	5827	6025
65°	4150	4901	3892
70°	3679	3825	2377
75°	3408	3101	1454
80°	3140	2853	1254
85°	2848	2615	1027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	3.2
10°-20°	584.0	8.3
20°-30°	756.4	10.7
30°-40°	740.7	10.5
40°-50°	567.0	8.0
50°-60°	377.8	5.4
60°-70°	206.2	2.9
70°-80°	85.9	1.2
80°-90°	25.5	0.4
90°-100°	251.5	3.6
100°-110°	694.4	9.8
110°-120°	716.1	10.1
120°-130°	575.5	8.2
130°-140°	452.3	6.4
140°-150°	346.9	4.9
150°-160°	249.3	3.5
160°-170°	152.5	2.2
170°-180°	51.4	0.7
0°-30°	1564.9	22.2
0°-40°	2305.6	32.7
0°-60°	3250.4	46.1
0°-90°	3567.9	50.6
90°-120°	1662.0	23.5
90°-150°	3036.6	43.0
90°-180°	3490.0	49.4
0°-180°	7057.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2408	2384	2399	2405	2413	224
15°	2036	2029	2084	2140	2177	569
25°	1556	1560	1641	1713	1788	716
35°	1100	1105	1179	1259	1348	684
45°	660	672	716	771	841	514
55°	379	395	418	434	469	344
65°	190	206	224	196	178	198
75°	96	96	87	60	41	102
85°	27	27	25	16	10	29
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2453.7	2431.9	2437.4	2437.2	2430.5
5°	2408.0	2383.8	2399.4	2404.9	2413.3
7.5°	2318.6	2300.3	2328.7	2349.7	2366.7
10°	2249.0	2233.3	2269.4	2300.0	2322.1
12.5°	2168.2	2155.0	2199.8	2240.9	2269.6
15°	2036.4	2029.0	2083.6	2140.3	2177.1
17.5°	1895.2	1891.7	1954.3	2020.5	2067.5
20°	1799.0	1797.9	1866.7	1935.6	1990.2
22.5°	1701.9	1704.2	1776.4	1848.1	1910.3
25°	1556.3	1560.5	1641.1	1712.6	1788.3
27.5°	1421.6	1423.5	1506.9	1582.4	1663.0
30°	1329.6	1334.9	1416.6	1494.8	1578.8
32.5°	1237.7	1243.8	1323.8	1404.6	1490.3
35°	1099.8	1105.1	1179.3	1258.6	1347.9
37.5°	957.6	964.7	1030.6	1105.7	1193.5
40°	865.7	876.2	934.4	1005.1	1091.2
42.5°	777.2	790.2	844.2	911.3	989.0
45°	659.5	672.1	716.4	770.6	841.0
47.5°	558.1	572.6	606.6	653.3	713.4
50°	500.5	514.1	545.6	580.2	636.9
52.5°	449.8	463.5	491.5	518.1	566.4
55°	379.1	394.9	417.8	433.6	469.4
57.5°	321.1	336.3	354.4	361.6	383.2
60°	282.5	299.3	315.8	315.0	326.5
62.5°	247.2	261.5	278.0	266.6	267.2
65°	190.1	205.9	224.5	196.1	178.3
67.5°	153.6	156.9	176.1	136.8	115.6
70°	136.4	136.4	141.8	105.9	88.1
72.5°	120.1	120.1	115.1	86.1	67.4
75°	95.6	95.6	87.0	59.7	40.8
77.5°	73.7	72.8	66.6	44.6	29.6
80°	59.1	59.1	53.7	35.2	23.6
82.5°	46.2	46.2	41.7	27.5	17.6
85°	26.9	26.9	24.7	16.0	9.7
87.5°	9.8	10.1	10.0	6.7	6.0
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)