

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: P519348

Luminaire Tested: **SQ4-WB-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519348  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

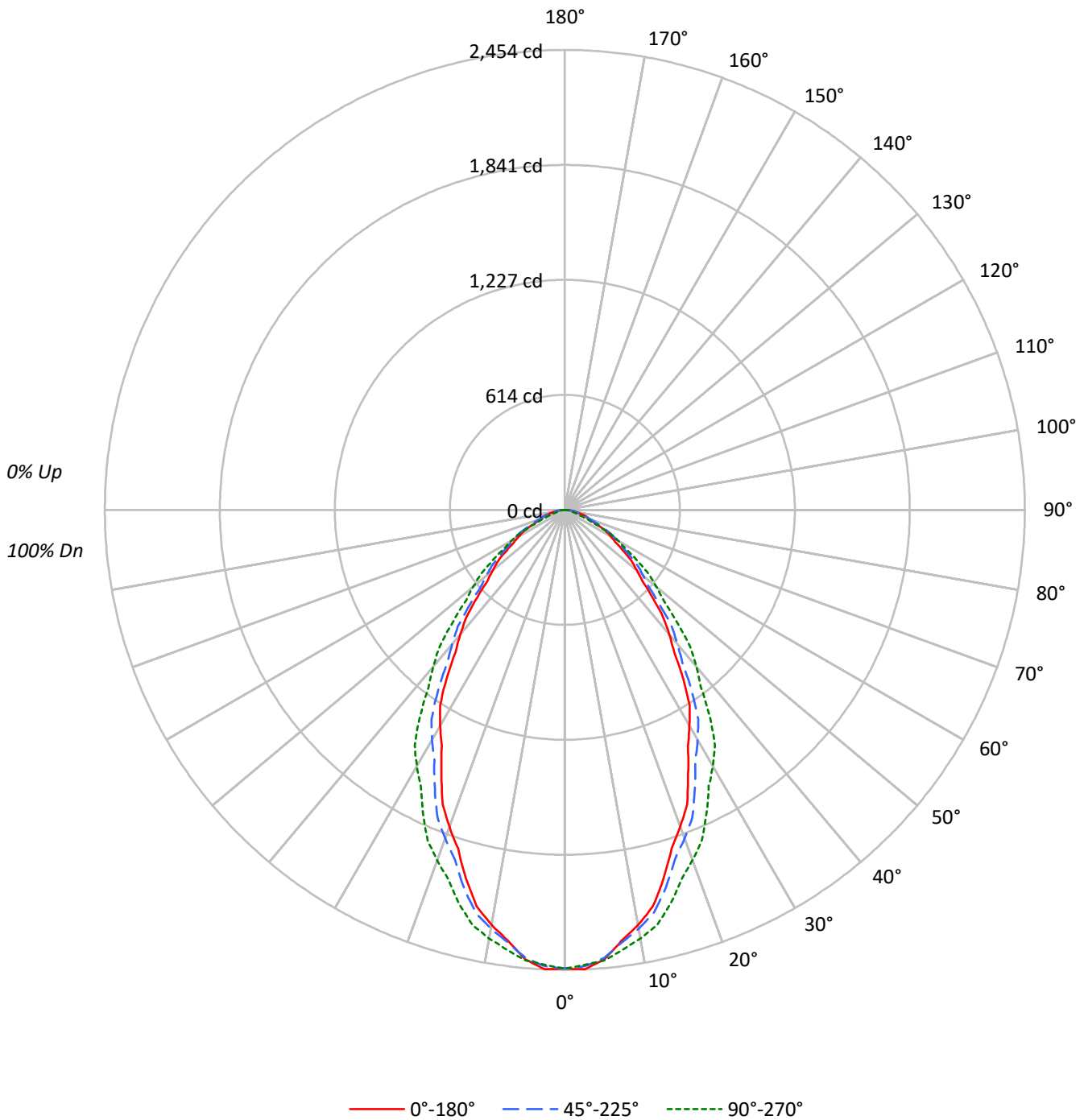
Lumens per Lamp: N/A  
Luminaire Lumens: 3566.8 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.6  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

**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	6.3
10°-20°	584.0	16.4
20°-30°	756.4	21.2
30°-40°	740.7	20.8
40°-50°	567.0	15.9
50°-60°	377.8	10.6
60°-70°	206.2	5.8
70°-80°	85.9	2.4
80°-90°	24.3	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1564.9	43.9
0°-40°	2305.6	64.6
0°-60°	3250.4	91.1
0°-90°	3566.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3566.8	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	31
90°	0	0	0	0	0	



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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°	9.5	9.5	8.6	5.1	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)