

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521911

Luminaire Tested: **SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P521911  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

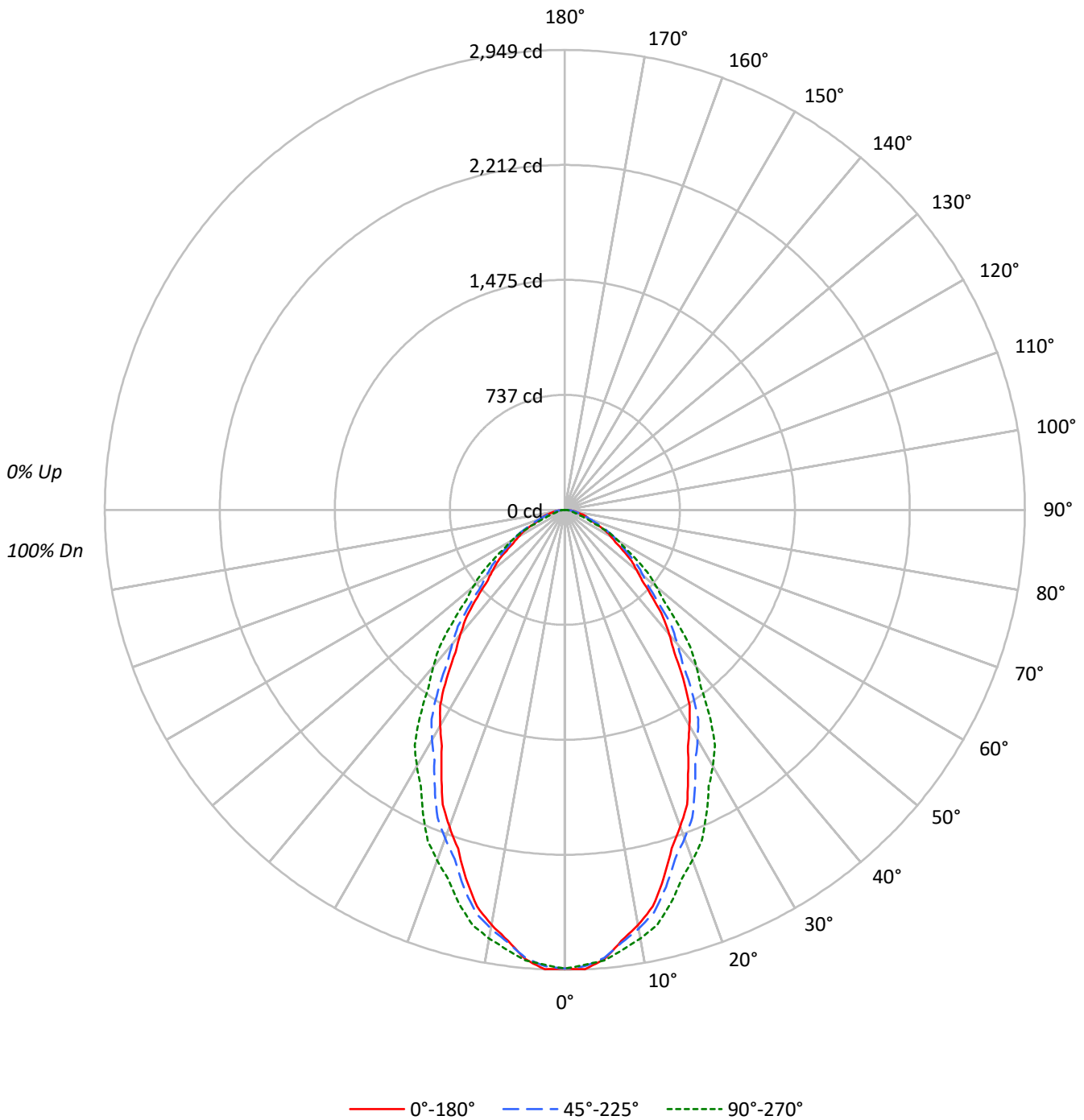
Lumens per Lamp: N/A  
Luminaire Lumens: 4286.1 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.5  
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°	27138	27138	27138
5°	26799	26704	26859
10°	25319	25549	26142
15°	23374	23915	24988
20°	21225	22023	23481
25°	19038	20076	21876
30°	17022	18137	20212
35°	14885	15961	18244
40°	12529	13524	15793
45°	10340	11233	13186
50°	8632	9410	10986
55°	7329	8076	9072
60°	6263	7001	7241
65°	4986	5888	4676
70°	4421	4597	2854
75°	4096	3725	1747
80°	3772	3427	1509
85°	3419	3144	1228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.8	6.3
10°-20°	701.7	16.4
20°-30°	909.0	21.2
30°-40°	890.1	20.8
40°-50°	681.3	15.9
50°-60°	454.0	10.6
60°-70°	247.7	5.8
70°-80°	103.2	2.4
80°-90°	29.2	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°	1880.5	43.9
0°-40°	2770.6	64.6
0°-60°	3905.9	91.1
0°-90°	4286.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2894	2865	2883	2890	2900	269
15°	2447	2438	2504	2572	2616	683
25°	1870	1875	1972	2058	2149	860
35°	1322	1328	1417	1512	1620	822
45°	792	808	861	926	1011	618
55°	456	474	502	521	564	413
65°	228	247	270	236	214	237
75°	115	115	104	72	49	123
85°	32	32	30	19	12	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2941.4	2941.4	2941.4	2941.4	2941.4
2.5°	2948.6	2922.4	2929.0	2928.8	2920.7
5°	2893.6	2864.6	2883.3	2890.0	2900.1
7.5°	2786.2	2764.3	2798.4	2823.6	2844.1
10°	2702.6	2683.7	2727.1	2763.9	2790.4
12.5°	2605.5	2589.6	2643.5	2692.8	2727.4
15°	2447.1	2438.2	2503.8	2572.0	2616.1
17.5°	2277.5	2273.2	2348.5	2428.0	2484.5
20°	2161.8	2160.6	2243.1	2325.9	2391.6
22.5°	2045.2	2047.9	2134.7	2220.8	2295.5
25°	1870.1	1875.2	1972.1	2058.1	2148.9
27.5°	1708.3	1710.6	1810.8	1901.5	1998.4
30°	1597.8	1604.1	1702.4	1796.3	1897.2
32.5°	1487.3	1494.7	1590.8	1687.9	1790.9
35°	1321.6	1327.9	1417.1	1512.5	1619.8
37.5°	1150.7	1159.3	1238.5	1328.7	1434.2
40°	1040.3	1052.9	1122.9	1207.8	1311.3
42.5°	933.9	949.6	1014.4	1095.0	1188.4
45°	792.5	807.6	860.9	926.0	1010.6
47.5°	670.6	688.0	729.0	785.1	857.2
50°	601.4	617.8	655.6	697.2	765.4
52.5°	540.5	556.9	590.6	622.6	680.7
55°	455.6	474.5	502.1	521.1	564.0
57.5°	385.9	404.1	425.9	434.5	460.5
60°	339.4	359.6	379.4	378.5	392.4
62.5°	297.1	314.3	334.0	320.4	321.1
65°	228.4	247.4	269.7	235.7	214.2
67.5°	184.6	188.6	211.7	164.4	138.9
70°	163.9	163.9	170.4	127.3	105.8
72.5°	144.3	144.3	138.4	103.5	81.1
75°	114.9	114.9	104.5	71.8	49.0
77.5°	88.5	87.5	80.0	53.5	35.6
80°	71.0	71.0	64.5	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.4	11.4	10.3	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)