

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: P519326

Luminaire Tested: **SQ4-WB-0U-100D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519326  
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-100D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

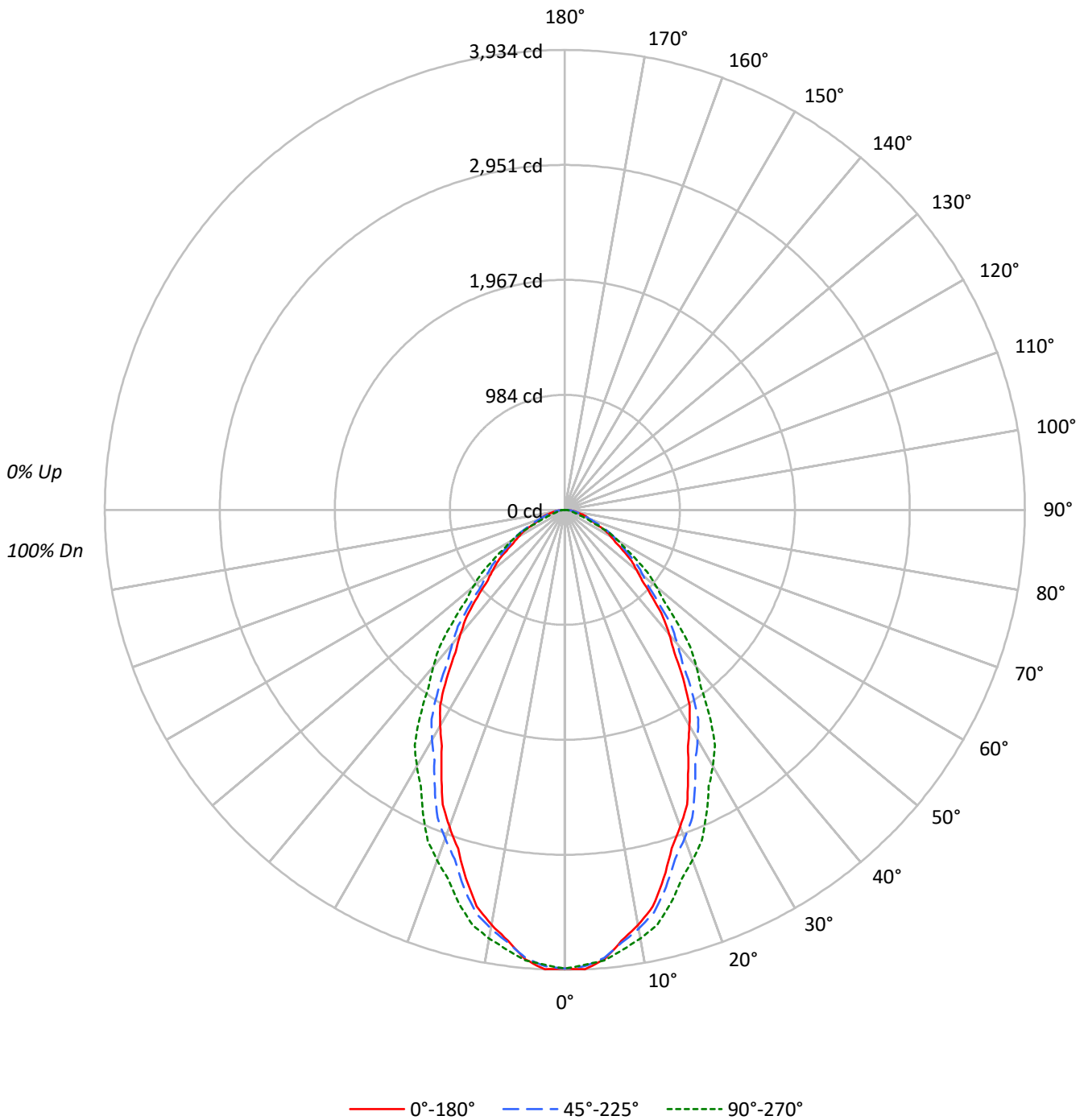
Lumens per Lamp: N/A  
Luminaire Lumens: 5718.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.7  
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	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°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17438
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12098	13483
35°	9929	10646	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3928	3120
70°	2950	3066	1904
75°	2731	2486	1166
80°	2516	2287	1007
85°	2276	2096	820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.9	6.3
10°-20°	936.2	16.4
20°-30°	1212.6	21.2
30°-40°	1187.5	20.8
40°-50°	908.9	15.9
50°-60°	605.7	10.6
60°-70°	330.5	5.8
70°-80°	137.7	2.4
80°-90°	39.0	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°	2508.7	43.9
0°-40°	3696.2	64.6
0°-60°	5210.8	91.1
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3924	3924	3924	3924	3924	
5°	3860	3822	3846	3855	3869	359
15°	3265	3253	3340	3431	3490	912
25°	2495	2502	2631	2746	2867	1147
35°	1763	1772	1890	2018	2161	1096
45°	1057	1077	1148	1235	1348	824
55°	608	633	670	695	752	551
65°	305	330	360	314	286	317
75°	153	153	140	96	65	164
85°	43	43	40	26	16	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3933.6	3898.6	3907.5	3907.2	3896.5
5°	3860.3	3821.6	3846.5	3855.4	3868.9
7.5°	3717.0	3687.7	3733.2	3766.9	3794.2
10°	3605.5	3580.2	3638.2	3687.2	3722.6
12.5°	3476.0	3454.8	3526.6	3592.4	3638.5
15°	3264.6	3252.8	3340.3	3431.2	3490.1
17.5°	3038.3	3032.6	3133.0	3239.1	3314.5
20°	2884.0	2882.3	2992.5	3103.0	3190.5
22.5°	2728.4	2732.1	2847.9	2962.7	3062.4
25°	2494.9	2501.6	2630.9	2745.6	2866.8
27.5°	2279.0	2282.0	2415.7	2536.8	2666.0
30°	2131.6	2140.0	2271.1	2396.4	2531.1
32.5°	1984.2	1994.0	2122.3	2251.8	2389.2
35°	1763.1	1771.6	1890.5	2017.8	2160.9
37.5°	1535.2	1546.6	1652.2	1772.5	1913.3
40°	1387.8	1404.6	1498.0	1611.3	1749.4
42.5°	1245.9	1266.8	1353.3	1460.9	1585.4
45°	1057.2	1077.4	1148.4	1235.4	1348.2
47.5°	894.7	917.9	972.5	1047.3	1143.6
50°	802.4	824.2	874.7	930.1	1021.0
52.5°	721.1	743.0	787.9	830.6	908.1
55°	607.8	633.1	669.8	695.2	752.4
57.5°	514.8	539.1	568.2	579.7	614.3
60°	452.8	479.8	506.2	504.9	523.4
62.5°	396.4	419.3	445.6	427.4	428.4
65°	304.8	330.0	359.9	314.4	285.8
67.5°	246.2	251.6	282.4	219.3	185.3
70°	218.7	218.7	227.3	169.8	141.2
72.5°	192.5	192.5	184.6	138.1	108.1
75°	153.2	153.2	139.5	95.7	65.4
77.5°	118.1	116.8	106.8	71.4	47.5
80°	94.7	94.7	86.1	56.4	37.9
82.5°	74.0	74.0	66.8	44.1	28.2
85°	43.0	43.0	39.6	25.6	15.5
87.5°	15.2	15.2	13.8	8.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)