

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: P519341

Luminaire Tested: **SQ4-WB-0U-125D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519341  
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-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

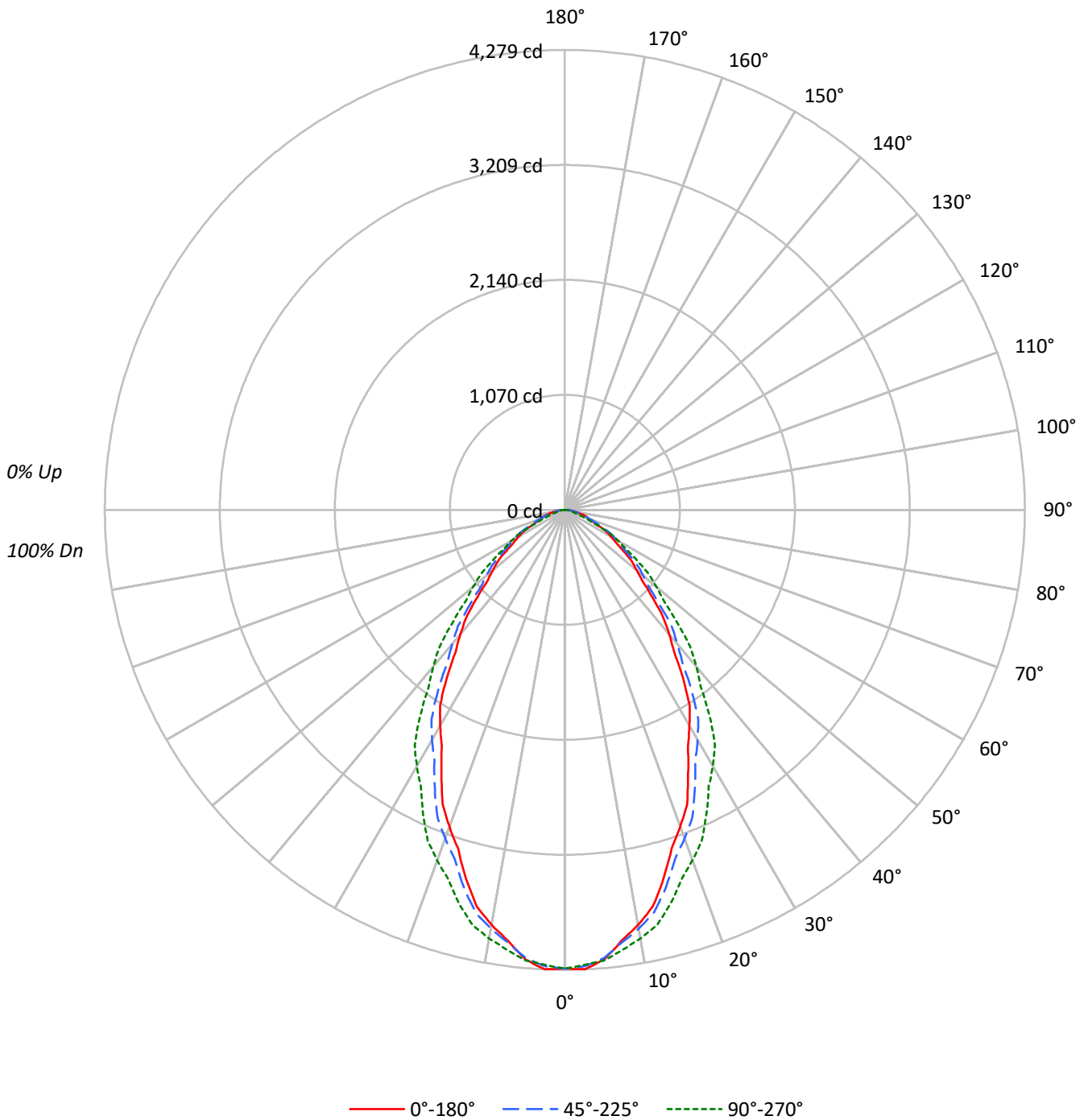
Lumens per Lamp: N/A  
Luminaire Lumens: 6219.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 69.7  
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°	26252	26252	26252
5°	25925	25832	25983
10°	24493	24715	25289
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15440	17649
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7812	8776
60°	6059	6773	7003
65°	4825	5696	4525
70°	4277	4446	2762
75°	3962	3605	1692
80°	3648	3315	1459
85°	3303	3042	1193



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.5	6.3
10°-20°	1018.3	16.4
20°-30°	1318.9	21.2
30°-40°	1291.6	20.8
40°-50°	988.6	15.9
50°-60°	658.8	10.6
60°-70°	359.5	5.8
70°-80°	149.8	2.4
80°-90°	42.4	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°	2728.7	43.9
0°-40°	4020.3	64.6
0°-60°	5667.7	91.1
0°-90°	6219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6219.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4268	4268	4268	4268	4268	
5°	4199	4157	4184	4194	4208	391
15°	3551	3538	3633	3732	3796	992
25°	2714	2721	2862	2986	3118	1248
35°	1918	1927	2056	2195	2350	1192
45°	1150	1172	1249	1344	1466	897
55°	661	689	728	756	818	599
65°	332	359	391	342	311	345
75°	167	167	152	104	71	178
85°	47	47	43	28	17	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4268.1	4268.1	4268.1	4268.1	4268.1
2.5°	4278.6	4240.5	4250.1	4249.8	4238.1
5°	4198.8	4156.7	4183.8	4193.5	4208.2
7.5°	4043.0	4011.1	4060.6	4097.2	4126.9
10°	3921.6	3894.2	3957.2	4010.5	4049.0
12.5°	3780.8	3757.7	3835.9	3907.4	3957.6
15°	3550.8	3538.0	3633.2	3732.1	3796.1
17.5°	3304.7	3298.5	3407.7	3523.1	3605.1
20°	3136.9	3135.1	3254.9	3375.1	3470.3
22.5°	2967.6	2971.7	3097.6	3222.5	3330.9
25°	2713.7	2721.0	2861.6	2986.4	3118.2
27.5°	2478.8	2482.1	2627.5	2759.2	2899.8
30°	2318.5	2327.7	2470.2	2606.5	2753.0
32.5°	2158.2	2168.8	2308.4	2449.3	2598.7
35°	1917.7	1926.9	2056.3	2194.7	2350.4
37.5°	1669.8	1682.2	1797.1	1928.0	2081.0
40°	1509.5	1527.8	1629.3	1752.6	1902.8
42.5°	1355.2	1377.9	1472.0	1589.0	1724.5
45°	1149.9	1171.9	1249.2	1343.7	1466.4
47.5°	973.1	998.4	1057.8	1139.2	1243.9
50°	872.7	896.5	951.4	1011.7	1110.6
52.5°	784.3	808.1	857.0	903.5	987.7
55°	661.1	688.6	728.5	756.1	818.4
57.5°	560.0	586.3	618.0	630.5	668.2
60°	492.5	521.8	550.6	549.2	569.3
62.5°	431.1	456.0	484.7	464.9	466.0
65°	331.5	359.0	391.4	342.0	310.9
67.5°	267.8	273.7	307.1	238.5	201.5
70°	237.8	237.8	247.2	184.7	153.6
72.5°	209.4	209.4	200.8	150.2	117.6
75°	166.7	166.7	151.7	104.1	71.2
77.5°	128.5	127.0	116.1	77.7	51.7
80°	103.0	103.0	93.6	61.3	41.2
82.5°	80.5	80.5	72.7	47.9	30.7
85°	46.8	46.8	43.1	27.8	16.9
87.5°	16.5	16.5	15.0	9.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)