

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: P519340

Luminaire Tested: **SQ4-WB-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519340  
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-4  
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**

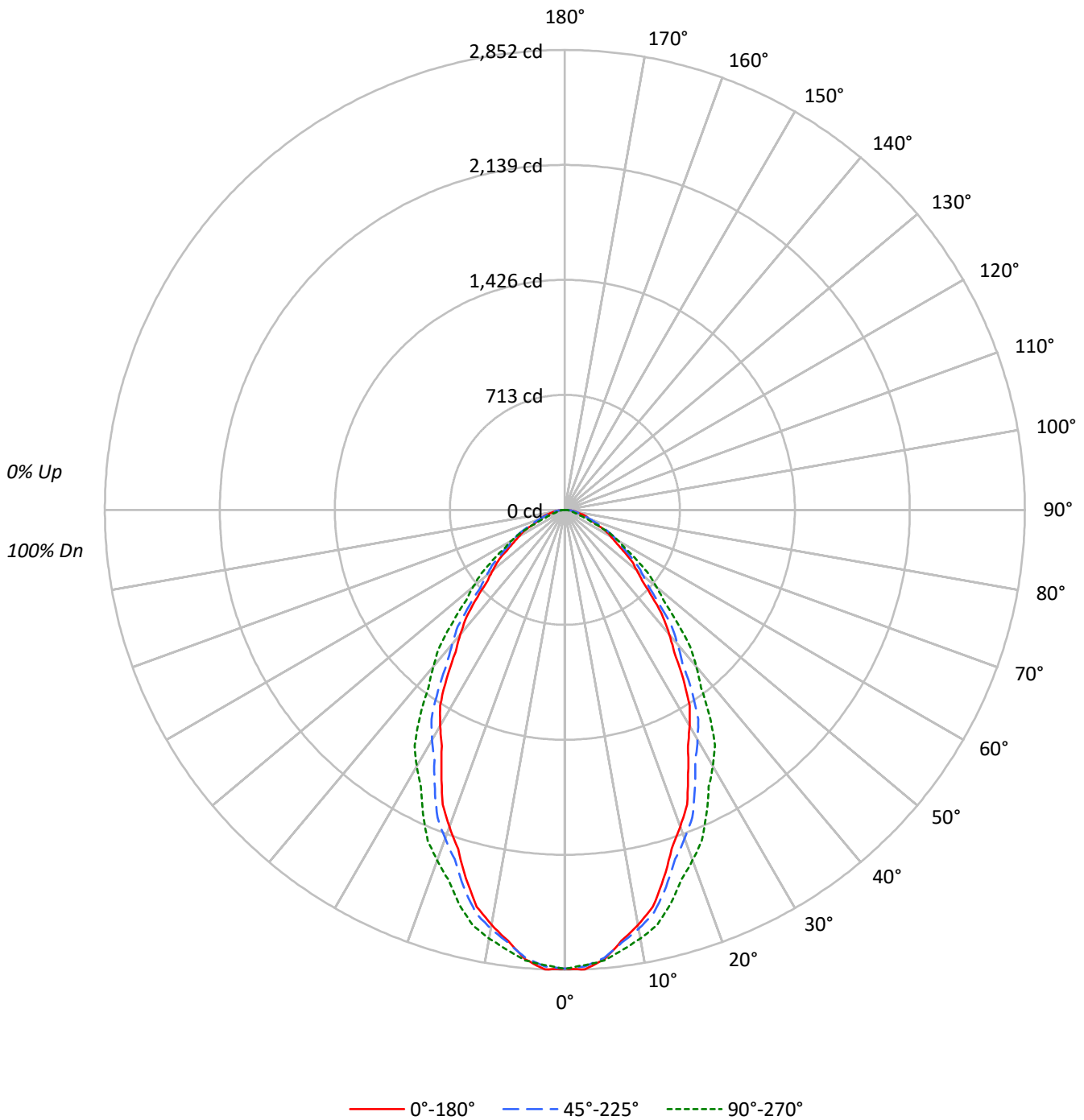
Lumens per Lamp: N/A  
Luminaire Lumens: 4146.3 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P519340  
CATALOG NUMBER: SQ4-WB-0U-125D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P519340

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-4

**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	25982
10°	24493	24715	25288
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19420	21162
30°	16467	17544	19552
35°	14400	15441	17648
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7813	8776
60°	6060	6774	7005
65°	4825	5696	4526
70°	4278	4446	2762
75°	3960	3604	1690
80°	3650	3315	1461
85°	3303	3038	1186



TEST NUMBER: P519340

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	6.3
10°-20°	678.8	16.4
20°-30°	879.3	21.2
30°-40°	861.1	20.8
40°-50°	659.1	15.9
50°-60°	439.2	10.6
60°-70°	239.7	5.8
70°-80°	99.9	2.4
80°-90°	28.3	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°	1819.1	43.9
0°-40°	2680.2	64.6
0°-60°	3778.5	91.1
0°-90°	4146.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2845	2845	2845	2845	2845	
5°	2799	2771	2789	2796	2805	260
15°	2367	2359	2422	2488	2531	661
25°	1809	1814	1908	1991	2079	832
35°	1278	1285	1371	1463	1567	795
45°	767	781	833	896	978	598
55°	441	459	486	504	546	400
65°	221	239	261	228	207	230
75°	111	111	101	69	47	119
85°	31	31	29	19	11	35
90°	0	0	0	0	0	



TEST NUMBER: P519340

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2845.4	2845.4	2845.4	2845.4	2845.4
2.5°	2852.4	2827.0	2833.4	2833.2	2825.4
5°	2799.2	2771.1	2789.2	2795.7	2805.4
7.5°	2695.3	2674.1	2707.1	2731.5	2751.3
10°	2614.4	2596.1	2638.1	2673.7	2699.3
12.5°	2520.5	2505.1	2557.2	2604.9	2638.4
15°	2367.2	2358.7	2422.1	2488.0	2530.8
17.5°	2203.2	2199.0	2271.8	2348.7	2403.4
20°	2091.3	2090.1	2169.9	2250.0	2313.5
22.5°	1978.4	1981.1	2065.1	2148.4	2220.6
25°	1809.1	1814.0	1907.7	1990.9	2078.8
27.5°	1652.6	1654.7	1751.7	1839.5	1933.2
30°	1545.7	1551.8	1646.8	1737.7	1835.3
32.5°	1438.8	1445.9	1538.9	1632.8	1732.5
35°	1278.5	1284.6	1370.9	1463.1	1566.9
37.5°	1113.2	1121.5	1198.1	1285.3	1387.4
40°	1006.3	1018.5	1086.2	1168.4	1268.5
42.5°	903.4	918.6	981.3	1059.3	1149.6
45°	766.6	781.2	832.8	895.8	977.6
47.5°	648.7	665.6	705.2	759.4	829.3
50°	581.8	597.7	634.3	674.5	740.4
52.5°	522.9	538.8	571.3	602.3	658.5
55°	440.7	459.0	485.7	504.1	545.6
57.5°	373.3	390.9	412.0	420.3	445.5
60°	328.4	347.9	367.1	366.1	379.6
62.5°	287.4	304.0	323.1	309.9	310.6
65°	221.0	239.3	260.9	228.0	207.3
67.5°	178.5	182.4	204.8	159.0	134.3
70°	158.6	158.6	164.8	123.1	102.4
72.5°	139.6	139.6	133.8	100.1	78.4
75°	111.1	111.1	101.1	69.4	47.4
77.5°	85.6	84.7	77.4	51.8	34.5
80°	68.7	68.7	62.4	40.9	27.5
82.5°	53.7	53.7	48.4	32.0	20.5
85°	31.2	31.2	28.7	18.6	11.2
87.5°	11.0	11.0	10.0	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)