

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: P519344

Luminaire Tested: **SQ4-WB-0U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519344  
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-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

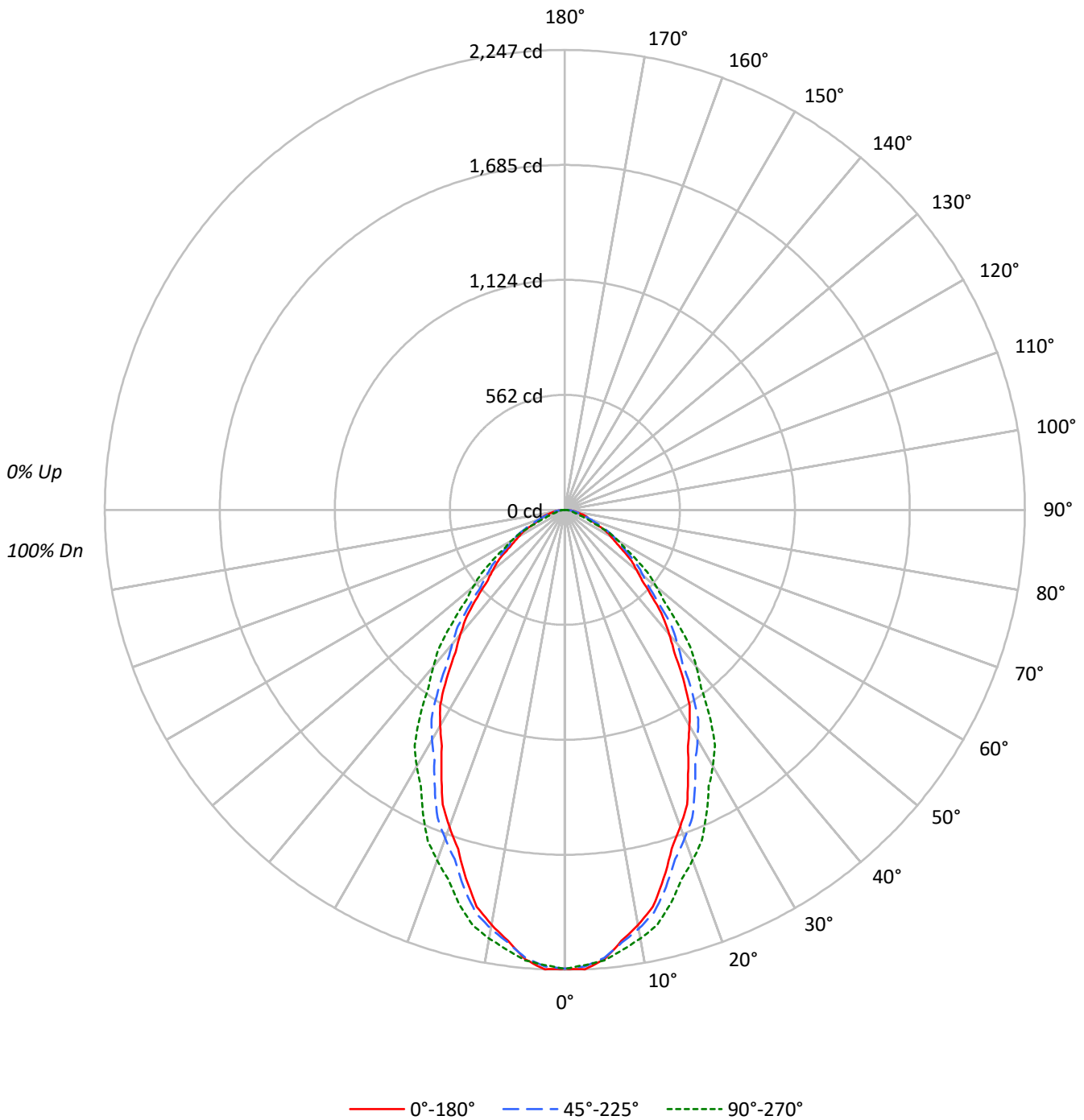
Lumens per Lamp: N/A  
Luminaire Lumens: 3266.5 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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				100															
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89															
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78															
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69															
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62															
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55															
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50															
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45															
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41															
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38															
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18226	19044
20°	16177	16784	17896
25°	14510	15301	16672
30°	12973	13822	15404
35°	11344	12164	13903
40°	9548	10307	12037
45°	7880	8561	10049
50°	6580	7172	8372
55°	5585	6154	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3501	2177
75°	3119	2841	1333
80°	2874	2614	1148
85°	2604	2392	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.6	6.3
10°-20°	534.8	16.4
20°-30°	692.7	21.2
30°-40°	678.4	20.8
40°-50°	519.3	15.9
50°-60°	346.0	10.6
60°-70°	188.8	5.8
70°-80°	78.7	2.4
80°-90°	22.3	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°	1433.2	43.9
0°-40°	2111.5	64.6
0°-60°	2976.8	91.1
0°-90°	3266.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2205	2183	2197	2202	2210	205
15°	1865	1858	1908	1960	1994	521
25°	1425	1429	1503	1568	1638	655
35°	1007	1012	1080	1153	1234	626
45°	604	616	656	706	770	471
55°	347	362	383	397	430	315
65°	174	188	206	180	163	181
75°	88	88	80	55	37	93
85°	25	25	23	15	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2247.2	2227.2	2232.2	2232.1	2225.9
5°	2205.3	2183.2	2197.4	2202.5	2210.2
7.5°	2123.4	2106.7	2132.7	2151.9	2167.5
10°	2059.7	2045.3	2078.4	2106.4	2126.6
12.5°	1985.7	1973.6	2014.7	2052.2	2078.6
15°	1865.0	1858.2	1908.2	1960.1	1993.8
17.5°	1735.7	1732.4	1789.8	1850.4	1893.5
20°	1647.6	1646.6	1709.5	1772.6	1822.7
22.5°	1558.7	1560.8	1626.9	1692.5	1749.5
25°	1425.3	1429.1	1503.0	1568.5	1637.7
27.5°	1301.9	1303.7	1380.0	1449.2	1523.0
30°	1217.7	1222.5	1297.4	1369.0	1445.9
32.5°	1133.5	1139.1	1212.4	1286.4	1364.9
35°	1007.2	1012.0	1080.0	1152.7	1234.4
37.5°	877.0	883.5	943.9	1012.6	1093.0
40°	792.8	802.4	855.8	920.5	999.4
42.5°	711.8	723.7	773.1	834.6	905.7
45°	603.9	615.5	656.1	705.7	770.2
47.5°	511.1	524.4	555.6	598.3	653.3
50°	458.4	470.9	499.7	531.4	583.3
52.5°	411.9	424.4	450.1	474.5	518.8
55°	347.2	361.6	382.6	397.1	429.8
57.5°	294.1	308.0	324.6	331.1	351.0
60°	258.7	274.1	289.2	288.4	299.0
62.5°	226.4	239.5	254.6	244.1	244.7
65°	174.1	188.5	205.6	179.6	163.3
67.5°	140.7	143.7	161.3	125.3	105.8
70°	124.9	124.9	129.8	97.0	80.7
72.5°	110.0	110.0	105.4	78.9	61.8
75°	87.5	87.5	79.7	54.7	37.4
77.5°	67.5	66.7	61.0	40.8	27.1
80°	54.1	54.1	49.2	32.2	21.6
82.5°	42.3	42.3	38.2	25.2	16.1
85°	24.6	24.6	22.6	14.6	8.9
87.5°	8.7	8.7	7.9	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)