

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: P519352

Luminaire Tested: **SQ4-WB-0U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519352  
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-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

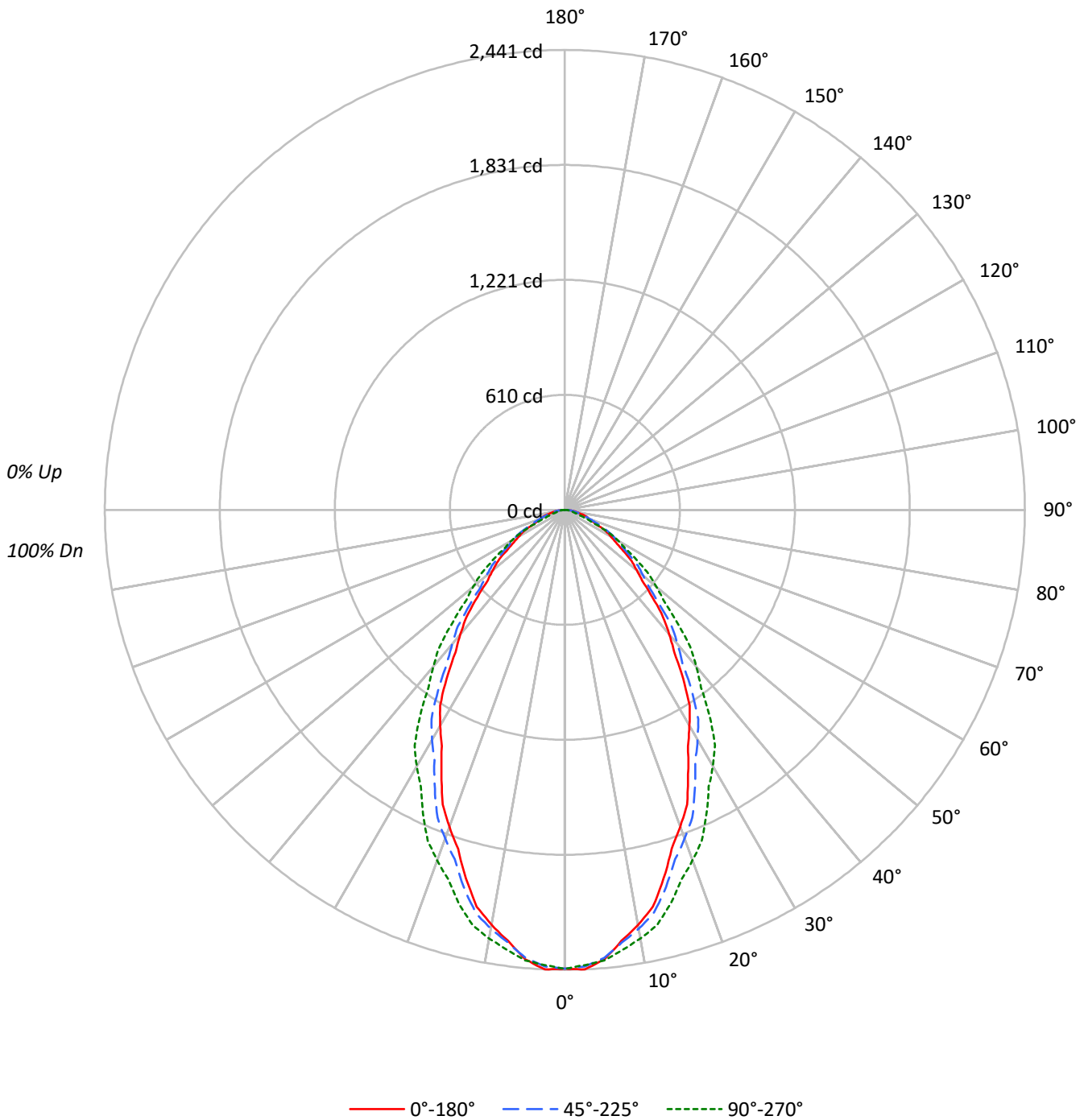
Lumens per Lamp: N/A  
Luminaire Lumens: 3548.6 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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					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	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°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17574	18235	19441
25°	15763	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9299	10917
50°	7148	7791	9096
55°	6067	6687	7512
60°	5185	5798	5993
65°	4128	4875	3873
70°	3661	3806	2363
75°	3390	3087	1447
80°	3124	2837	1249
85°	2826	2604	1016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.4	6.3
10°-20°	581.0	16.4
20°-30°	752.6	21.2
30°-40°	737.0	20.8
40°-50°	564.1	15.9
50°-60°	375.9	10.6
60°-70°	205.1	5.8
70°-80°	85.5	2.4
80°-90°	24.2	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°	1556.9	43.9
0°-40°	2293.9	64.6
0°-60°	3233.9	91.1
0°-90°	3548.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2396	2372	2387	2393	2401	223
15°	2026	2019	2073	2129	2166	566
25°	1548	1552	1633	1704	1779	712
35°	1094	1099	1173	1252	1341	680
45°	656	669	713	767	837	512
55°	377	393	416	431	467	342
65°	189	205	223	195	177	197
75°	95	95	87	59	41	102
85°	27	27	25	16	10	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2441.3	2419.5	2425.0	2424.9	2418.2
5°	2395.7	2371.7	2387.2	2392.7	2401.1
7.5°	2306.8	2288.7	2316.9	2337.8	2354.7
10°	2237.6	2221.9	2257.9	2288.3	2310.3
12.5°	2157.2	2144.1	2188.7	2229.5	2258.1
15°	2026.0	2018.7	2073.0	2129.4	2166.0
17.5°	1885.6	1882.1	1944.4	2010.2	2057.0
20°	1789.9	1788.8	1857.2	1925.7	1980.1
22.5°	1693.3	1695.6	1767.4	1838.7	1900.6
25°	1548.4	1552.5	1632.8	1703.9	1779.2
27.5°	1414.4	1416.2	1499.2	1574.3	1654.6
30°	1322.9	1328.1	1409.5	1487.2	1570.8
32.5°	1231.4	1237.5	1317.1	1397.5	1482.8
35°	1094.2	1099.4	1173.3	1252.3	1341.1
37.5°	952.7	959.8	1025.4	1100.1	1187.4
40°	861.3	871.7	929.7	1000.0	1085.7
42.5°	773.2	786.2	839.9	906.6	983.9
45°	656.1	668.6	712.7	766.7	836.7
47.5°	555.2	569.7	603.5	650.0	709.7
50°	498.0	511.5	542.8	577.2	633.7
52.5°	447.5	461.1	489.0	515.5	563.6
55°	377.2	392.9	415.7	431.4	467.0
57.5°	319.5	334.5	352.6	359.7	381.3
60°	281.0	297.8	314.2	313.4	324.8
62.5°	246.0	260.2	276.5	265.2	265.9
65°	189.1	204.8	223.3	195.1	177.4
67.5°	152.8	156.1	175.2	136.1	115.0
70°	135.7	135.7	141.1	105.4	87.6
72.5°	119.5	119.5	114.6	85.7	67.1
75°	95.1	95.1	86.6	59.4	40.6
77.5°	73.3	72.5	66.3	44.3	29.5
80°	58.8	58.8	53.4	35.0	23.5
82.5°	45.9	45.9	41.5	27.3	17.5
85°	26.7	26.7	24.6	15.9	9.6
87.5°	9.4	9.4	8.5	5.1	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)