

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521906

Luminaire Tested: **SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521906  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

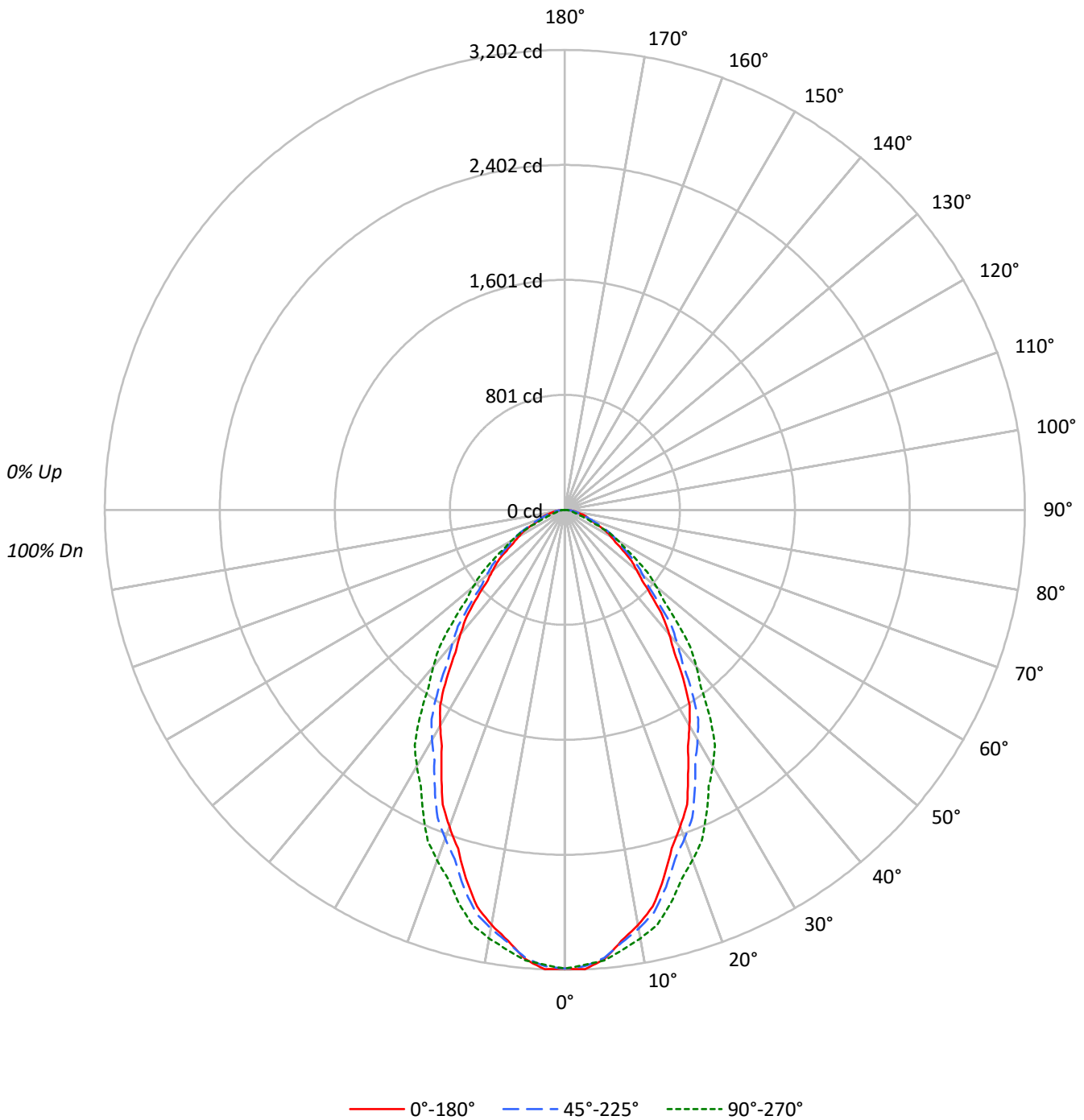
Lumens per Lamp: N/A  
Luminaire Lumens: 4653.8 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.4  
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°	29466	29466	29466
5°	29098	28994	29162
10°	27491	27740	28384
15°	25379	25967	27132
20°	23047	23913	25495
25°	20671	21798	23752
30°	18483	19692	21946
35°	16163	17331	19808
40°	13604	14684	17148
45°	11226	12196	14317
50°	9373	10218	11928
55°	7957	8768	9851
60°	6802	7602	7861
65°	5414	6394	5078
70°	4802	4990	3099
75°	4445	4046	1900
80°	4096	3725	1636
85°	3705	3409	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.9	6.3
10°-20°	761.9	16.4
20°-30°	986.9	21.2
30°-40°	966.4	20.8
40°-50°	739.8	15.9
50°-60°	492.9	10.6
60°-70°	269.0	5.8
70°-80°	112.1	2.4
80°-90°	31.7	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°	2041.8	43.9
0°-40°	3008.2	64.6
0°-60°	4240.9	91.1
0°-90°	4653.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4653.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3194	3194	3194	3194	3194	
5°	3142	3110	3131	3138	3149	292
15°	2657	2647	2719	2793	2840	742
25°	2031	2036	2141	2235	2333	934
35°	1435	1442	1539	1642	1759	892
45°	860	877	935	1006	1097	671
55°	495	515	545	566	612	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3193.7	3193.7	3193.7	3193.7	3193.7
2.5°	3201.5	3173.0	3180.2	3180.0	3171.2
5°	3141.8	3110.3	3130.6	3137.9	3148.8
7.5°	3025.2	3001.4	3038.4	3065.8	3088.0
10°	2934.4	2913.9	2961.0	3000.9	3029.7
12.5°	2829.0	2811.8	2870.2	2923.8	2961.3
15°	2657.0	2647.4	2718.6	2792.6	2840.5
17.5°	2472.8	2468.2	2549.9	2636.2	2697.6
20°	2347.3	2345.9	2435.5	2525.4	2596.7
22.5°	2220.6	2223.6	2317.8	2411.3	2492.4
25°	2030.6	2036.0	2141.3	2234.6	2333.2
27.5°	1854.8	1857.3	1966.1	2064.6	2169.8
30°	1734.9	1741.7	1848.4	1950.4	2060.0
32.5°	1614.9	1622.9	1727.3	1832.7	1944.5
35°	1435.0	1441.8	1538.7	1642.2	1758.7
37.5°	1249.4	1258.8	1344.7	1442.6	1557.2
40°	1129.5	1143.2	1219.2	1311.4	1423.8
42.5°	1014.0	1031.0	1101.5	1189.0	1290.4
45°	860.4	876.9	934.7	1005.5	1097.3
47.5°	728.1	747.0	791.5	852.4	930.8
50°	653.0	670.8	711.9	757.0	831.0
52.5°	586.9	604.7	641.3	676.0	739.1
55°	494.7	515.2	545.1	565.8	612.4
57.5°	419.0	438.7	462.4	471.8	500.0
60°	368.6	390.5	412.0	410.9	426.0
62.5°	322.6	341.2	362.7	347.8	348.7
65°	248.0	268.6	292.9	255.9	232.6
67.5°	200.4	204.8	229.8	178.5	150.8
70°	178.0	178.0	185.0	138.2	114.9
72.5°	156.7	156.7	150.2	112.4	88.0
75°	124.7	124.7	113.5	77.9	53.3
77.5°	96.1	95.0	86.9	58.1	38.7
80°	77.1	77.1	70.1	45.9	30.8
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.0	35.0	32.2	20.8	12.6
87.5°	12.3	12.3	11.2	6.7	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)