

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: P521023

Luminaire Tested: **SQ4-BB-025U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521023  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-025U-125D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

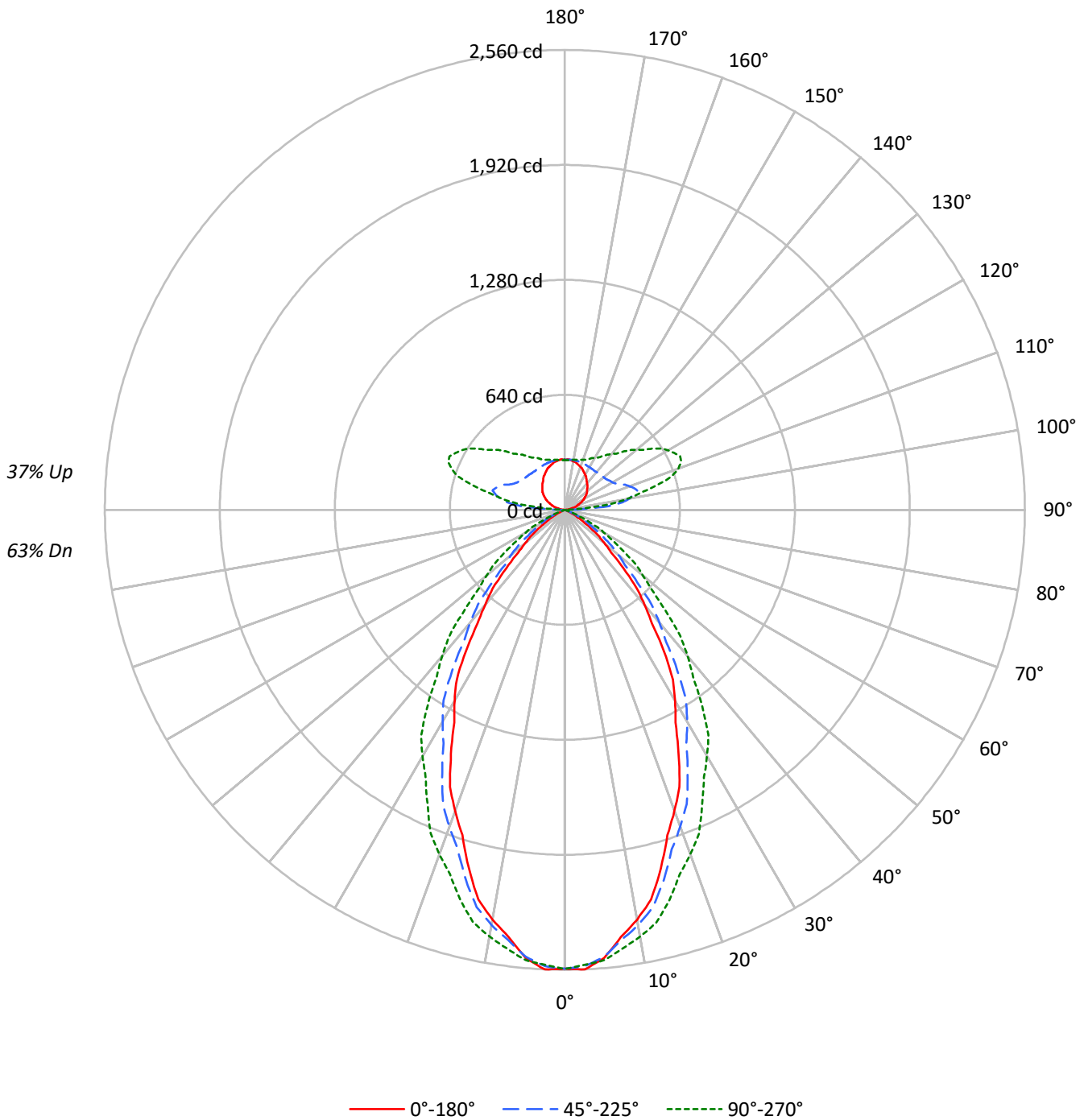
Lumens per Lamp: N/A  
Luminaire Lumens: 4848.4 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.8  
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63				
1	103	99	96	93	97	94	91	88	83	81	79	73	71	70	63	63	62	57				
2	96	89	84	80	90	85	80	76	75	72	69	67	64	62	59	57	56	52				
3	89	81	75	70	83	77	71	67	69	64	61	61	58	55	54	52	50	47				
4	83	73	66	61	78	70	64	59	63	58	54	56	53	50	50	48	45	42				
5	77	67	60	54	72	63	57	52	57	52	49	52	48	45	46	44	41	38				
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	38	35				
7	67	56	49	44	63	53	47	43	49	44	40	44	40	37	40	37	34	32				
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	37	34	32	30				
9	59	48	41	36	56	46	40	35	42	37	33	38	34	31	35	32	29	27				
10	55	44	38	33	53	43	37	32	39	34	31	36	32	29	33	30	27	25				

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

	0°	45°	90°
0°	23568	23568	23568
5°	23189	23131	23304
10°	21698	21987	22601
15°	19725	20351	21484
20°	17509	18419	20033
25°	15248	16456	18405
30°	13061	14496	16866
35°	10829	12305	15005
40°	8320	9839	12786
45°	6015	7450	10288
50°	4098	5552	8160
55°	2664	4015	6341
60°	1528	2827	4584
65°	404	1727	2321
70°	200	534	666
75°	89	43	0
80°	64	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.1	4.8
10°-20°	596.2	12.3
20°-30°	746.3	15.4
30°-40°	689.4	14.2
40°-50°	463.2	9.6
50°-60°	239.3	4.9
60°-70°	74.9	1.5
70°-80°	4.7	0.1
80°-90°	0.1	0.0
90°-100°	143.4	3.0
100°-110°	346.6	7.1
110°-120°	369.6	7.6
120°-130°	299.4	6.2
130°-140°	231.8	4.8
140°-150°	176.8	3.6
150°-160°	128.0	2.6
160°-170°	78.8	1.6
170°-180°	26.7	0.6
0°-30°	1575.6	32.5
0°-40°	2265.0	46.7
0°-60°	2967.5	61.2
0°-90°	3047.3	62.9
90°-120°	859.6	17.7
90°-150°	1567.6	32.3
90°-180°	1801.0	37.1
0°-180°	4848.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2504	2478	2498	2506	2516	232
15°	2065	2058	2131	2202	2249	575
25°	1498	1510	1616	1727	1808	687
35°	962	986	1092	1221	1332	596
45°	461	489	571	682	788	362
55°	166	193	250	320	394	155
65°	18	36	79	95	106	31
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	14	72	246	160	112	16
105°	55	96	416	539	532	58
115°	101	130	335	634	708	100
125°	144	166	290	505	593	129
135°	177	198	279	398	458	137
145°	210	225	273	338	365	131
155°	240	251	277	300	310	111
165°	266	270	280	285	289	75
175°	281	280	281	279	278	27
180°	278	278	278	278	278	



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CATALOG NUMBER: SQ4-BB-025U-125D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2554.5	2554.5	2554.5	2554.5	2554.5
2.5°	2560.4	2536.2	2542.6	2542.5	2535.7
5°	2503.8	2478.4	2497.6	2506.5	2516.2
7.5°	2398.0	2378.2	2415.1	2442.7	2462.8
10°	2316.0	2299.0	2346.9	2384.6	2412.4
12.5°	2221.1	2208.0	2265.8	2317.5	2353.0
15°	2065.1	2057.8	2130.6	2202.1	2249.2
17.5°	1898.0	1897.8	1980.8	2069.6	2126.4
20°	1783.3	1786.9	1876.0	1973.9	2040.4
22.5°	1668.6	1677.1	1772.2	1874.3	1950.4
25°	1497.8	1509.9	1616.5	1727.1	1808.0
27.5°	1333.7	1351.4	1463.5	1578.4	1677.0
30°	1226.0	1246.5	1360.7	1481.6	1583.1
32.5°	1120.2	1144.6	1255.9	1383.8	1487.2
35°	961.5	985.7	1092.5	1221.1	1332.2
37.5°	797.6	821.3	925.6	1052.2	1172.3
40°	690.8	717.4	816.9	939.5	1061.6
42.5°	593.9	620.5	714.1	834.6	949.9
45°	461.0	488.8	571.0	682.1	788.5
47.5°	350.7	380.9	453.1	553.6	650.5
50°	285.5	315.7	386.8	475.4	568.5
52.5°	233.1	262.3	326.5	410.0	495.3
55°	165.6	193.4	249.6	320.5	394.2
57.5°	114.4	138.4	188.8	248.0	305.7
60°	82.8	105.8	153.2	201.3	248.4
62.5°	55.1	76.1	122.6	159.4	191.1
65°	18.5	35.5	79.1	95.4	106.3
67.5°	9.4	11.3	41.5	43.8	47.5
70°	7.4	7.4	19.8	21.1	24.7
72.5°	5.4	5.4	7.9	10.2	10.9
75°	2.5	2.5	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	0.0	0.0
80°	1.2	1.2	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	38.8	91.4	44.5	30.2
95°	14.1	71.7	245.7	159.8	111.9
97.5°	25.1	79.5	323.6	311.7	267.6
100°	33.6	84.3	366.5	386.8	350.6
102.5°	41.6	88.6	394.7	449.4	427.9
105°	55.4	95.7	416.5	538.9	532.0
107.5°	68.9	104.1	403.7	610.7	627.0
110°	78.4	111.2	383.0	641.7	672.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	87.8	118.3	364.6	649.3	701.5
115°	101.3	129.6	334.6	634.4	707.6
117.5°	114.8	141.4	317.1	600.3	686.0
120°	123.7	148.5	305.8	573.5	663.4
122.5°	133.2	156.1	298.7	546.2	634.7
125°	144.3	166.2	290.5	504.6	592.7
127.5°	155.4	176.0	284.7	469.3	546.7
130°	162.0	182.2	282.8	444.8	520.8
132.5°	168.1	189.2	280.0	427.1	491.6
135°	177.3	198.1	278.7	397.9	457.8
137.5°	186.1	206.9	274.6	378.1	423.3
140°	192.7	211.7	274.6	363.9	405.3
142.5°	199.3	218.3	272.2	351.5	386.5
145°	209.7	225.3	273.4	338.2	364.7
147.5°	219.5	234.6	272.7	322.9	344.8
150°	225.7	238.9	274.6	316.2	333.5
152.5°	232.3	245.0	274.1	309.1	324.5
155°	240.4	250.8	276.9	299.5	310.5
157.5°	250.2	259.0	276.3	295.9	302.4
160°	253.9	261.4	278.7	291.2	295.8
162.5°	260.1	266.6	277.7	289.7	292.5
165°	265.7	269.7	280.4	284.7	288.7
167.5°	272.7	275.3	279.7	284.3	284.5
170°	274.6	276.3	281.6	281.1	284.0
172.5°	277.9	279.1	280.2	281.5	279.7
175°	281.0	279.9	281.0	278.7	278.1
177.5°	280.4	280.4	279.5	278.5	276.2
180°	278.1	278.1	278.1	278.1	278.1

(END OF REPORT)