

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: P521128

Luminaire Tested: **SQ4-BB-075U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521128  
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-075U-125D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

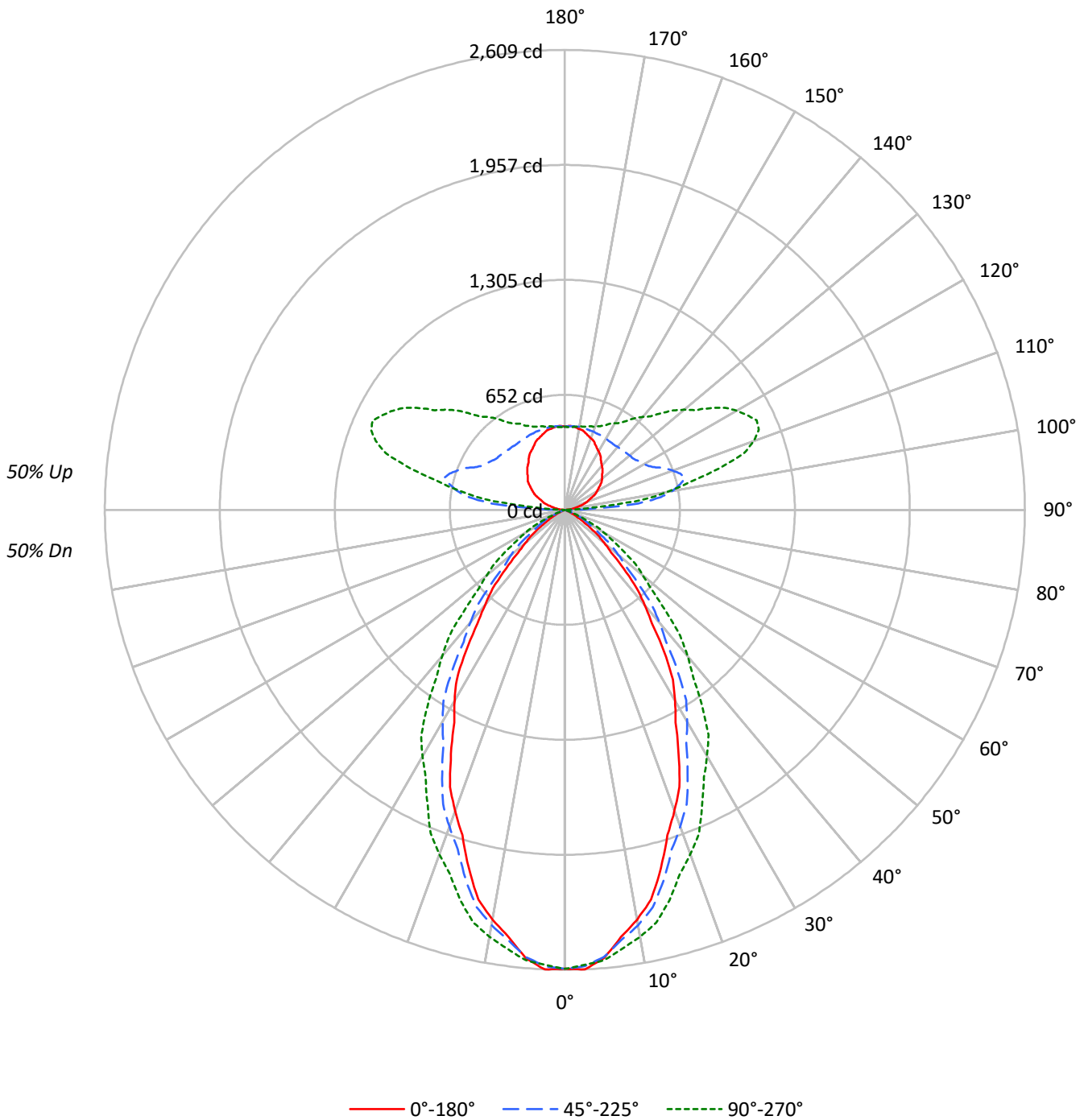
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6162.7 lumens  
Efficiency: N/A  
Efficacy: 77.8 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: General Diffuse

Input Watts (W): 79.2  
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42
3	85	77	71	66	79	72	67	62	62	58	55	53	50	48	45	43	41	38
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20

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

	0°	45°	90°
0°	24019	24019	24019
5°	23633	23575	23750
10°	22113	22408	23033
15°	20102	20740	21895
20°	17845	18772	20416
25°	15540	16771	18759
30°	13310	14773	17188
35°	11037	12540	15292
40°	8480	10027	13030
45°	6130	7593	10485
50°	4175	5658	8316
55°	2715	4092	6463
60°	1557	2882	4672
65°	413	1760	2364
70°	205	545	680
75°	89	46	0
80°	69	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.6	3.9
10°-20°	607.6	9.9
20°-30°	760.6	12.3
30°-40°	702.6	11.4
40°-50°	472.1	7.7
50°-60°	243.8	4.0
60°-70°	76.4	1.2
70°-80°	4.8	0.1
80°-90°	0.1	0.0
90°-100°	243.4	3.9
100°-110°	588.2	9.5
110°-120°	627.4	10.2
120°-130°	508.1	8.2
130°-140°	393.4	6.4
140°-150°	300.1	4.9
150°-160°	217.3	3.5
160°-170°	133.8	2.2
170°-180°	45.3	0.7
0°-30°	1605.8	26.1
0°-40°	2308.4	37.5
0°-60°	3024.3	49.1
0°-90°	3105.6	50.4
90°-120°	1459.0	23.7
90°-150°	2660.7	43.2
90°-180°	3057.0	49.6
0°-180°	6162.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2552	2526	2546	2554	2564	237
15°	2105	2097	2171	2244	2292	586
25°	1526	1539	1647	1760	1843	700
35°	980	1004	1113	1244	1358	607
45°	470	498	582	695	804	369
55°	169	197	254	327	402	157
65°	19	36	81	97	108	32
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	24	122	417	271	190	27
105°	94	162	707	915	903	99
115°	172	220	568	1077	1201	170
125°	245	282	493	856	1006	219
135°	301	336	473	675	777	232
145°	356	382	464	574	619	223
155°	408	426	470	508	527	188
165°	451	458	476	483	490	127
175°	477	475	477	473	472	45
180°	472	472	472	472	472	



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CATALOG NUMBER: SQ4-BB-075U-125D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2609.4	2584.8	2591.3	2591.1	2584.3
5°	2551.8	2525.9	2545.5	2554.5	2564.4
7.5°	2443.9	2423.7	2461.3	2489.5	2509.9
10°	2360.3	2343.1	2391.8	2430.2	2458.6
12.5°	2263.6	2250.3	2309.2	2361.9	2398.1
15°	2104.6	2097.2	2171.4	2244.3	2292.3
17.5°	1934.3	1934.1	2018.7	2109.2	2167.1
20°	1817.5	1821.2	1911.9	2011.7	2079.4
22.5°	1700.6	1709.2	1806.1	1910.2	1987.7
25°	1526.5	1538.8	1647.4	1760.1	1842.7
27.5°	1359.3	1377.2	1491.5	1608.7	1709.1
30°	1249.4	1270.4	1386.7	1510.0	1613.4
32.5°	1141.6	1166.5	1279.9	1410.3	1515.7
35°	979.9	1004.5	1113.4	1244.4	1357.7
37.5°	812.9	837.0	943.4	1072.4	1194.8
40°	704.1	731.2	832.5	957.5	1081.9
42.5°	605.3	632.4	727.7	850.6	968.1
45°	469.8	498.1	581.9	695.2	803.6
47.5°	357.4	388.2	461.7	564.2	663.0
50°	290.9	321.7	394.2	484.5	579.4
52.5°	237.5	267.3	332.8	417.9	504.8
55°	168.8	197.1	254.4	326.7	401.8
57.5°	116.6	141.0	192.5	252.7	311.6
60°	84.4	107.8	156.2	205.1	253.2
62.5°	56.2	77.6	124.9	162.5	194.7
65°	18.9	36.1	80.6	97.2	108.3
67.5°	9.6	11.5	42.3	44.7	48.4
70°	7.6	7.6	20.2	21.5	25.2
72.5°	5.5	5.5	8.1	10.3	11.1
75°	2.5	2.5	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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°	8.0	65.9	155.2	75.4	51.2
95°	24.0	121.8	417.0	271.2	190.0
97.5°	42.6	134.9	549.2	529.1	454.2
100°	57.0	143.0	622.0	656.6	595.0
102.5°	70.6	150.4	670.0	762.8	726.2
105°	94.0	162.4	707.0	914.7	903.0
107.5°	117.0	176.6	685.2	1036.6	1064.2
110°	133.0	188.7	650.0	1089.2	1141.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	149.0	200.8	618.8	1102.0	1190.6
115°	172.0	219.9	568.0	1076.8	1201.0
117.5°	194.8	240.0	538.2	1018.9	1164.4
120°	210.0	252.0	519.0	973.5	1126.0
122.5°	226.0	264.9	507.0	927.0	1077.2
125°	245.0	282.2	493.0	856.4	1006.0
127.5°	263.8	298.8	483.2	796.6	928.0
130°	275.0	309.2	480.0	754.9	884.0
132.5°	285.4	321.2	475.2	724.9	834.4
135°	301.0	336.2	473.0	675.3	777.0
137.5°	315.8	351.2	466.0	641.7	718.4
140°	327.0	359.3	466.0	617.6	688.0
142.5°	338.2	370.5	462.0	596.6	656.0
145°	356.0	382.4	464.0	574.0	619.0
147.5°	372.6	398.2	462.8	548.0	585.2
150°	383.0	405.5	466.0	536.7	566.0
152.5°	394.2	415.9	465.2	524.6	550.8
155°	408.0	425.6	470.0	508.4	527.0
157.5°	424.6	439.7	469.0	502.2	513.2
160°	431.0	443.7	473.0	494.2	502.0
162.5°	441.4	452.5	471.4	491.7	496.4
165°	451.0	457.8	476.0	483.2	490.0
167.5°	462.8	467.3	474.8	482.6	482.8
170°	466.0	468.9	478.0	477.1	482.0
172.5°	471.6	473.8	475.6	477.7	474.8
175°	477.0	475.0	477.0	473.0	472.0
177.5°	476.0	476.0	474.4	472.7	468.8
180°	472.0	472.0	472.0	472.0	472.0

(END OF REPORT)