

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: P521261

Luminaire Tested: **SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521261  
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-125U-075D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

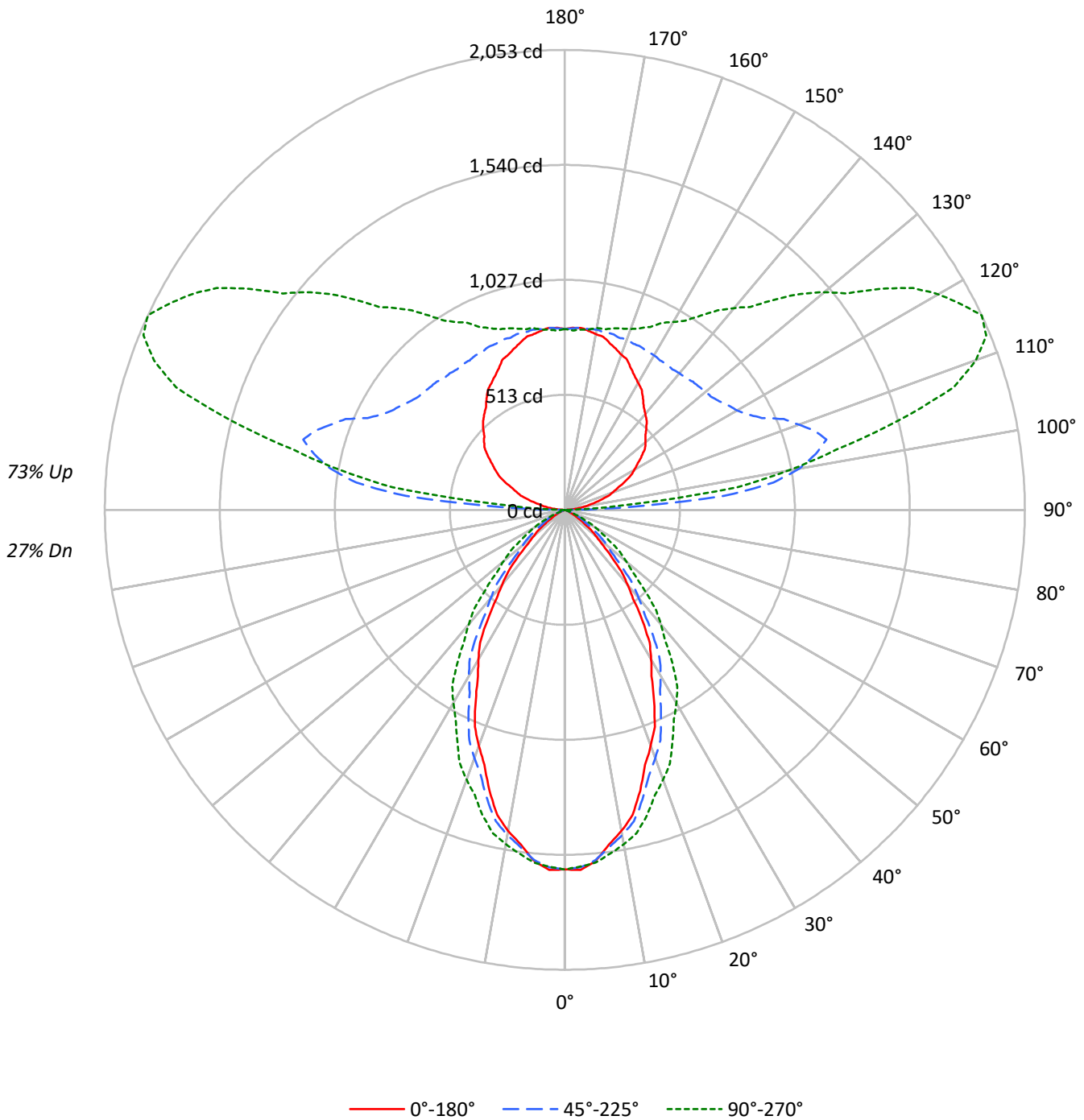
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7141.7 lumens  
Efficiency: N/A  
Efficacy: 98.2 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-Indirect

Input Watts (W): 72.7  
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	32	32	31	25
2	86	79	74	70	77	71	67	63	56	53	51	42	41	39	30	29	28	22
3	79	71	64	59	71	64	58	54	51	47	44	38	36	34	27	26	25	20
4	73	63	56	51	65	57	51	47	46	41	38	35	32	30	25	23	22	18
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	19	18	15
7	57	46	39	34	52	42	36	32	34	30	26	27	24	21	20	18	17	14
8	53	42	35	30	48	38	32	28	31	27	24	25	22	19	18	16	15	13
9	50	39	32	27	45	35	29	25	29	25	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	22	19	21	18	16	16	14	13	11

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

	0°	45°	90°
0°	14812	14812	14812
5°	14573	14537	14645
10°	13636	13818	14204
15°	12396	12790	13501
20°	11003	11576	12590
25°	9582	10342	11568
30°	8209	9110	10599
35°	6805	7733	9429
40°	5229	6183	8036
45°	3780	4682	6465
50°	2575	3489	5128
55°	1674	2524	3986
60°	960	1777	2880
65°	255	1085	1458
70°	127	334	418
75°	57	29	0
80°	43	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	2.1
10°-20°	374.7	5.2
20°-30°	469.0	6.6
30°-40°	433.2	6.1
40°-50°	291.1	4.1
50°-60°	150.4	2.1
60°-70°	47.1	0.7
70°-80°	3.0	0.0
80°-90°	0.1	0.0
90°-100°	416.1	5.8
100°-110°	1005.7	14.1
110°-120°	1072.6	15.0
120°-130°	868.8	12.2
130°-140°	672.6	9.4
140°-150°	513.1	7.2
150°-160°	371.4	5.2
160°-170°	228.8	3.2
170°-180°	77.5	1.1
0°-30°	990.2	13.9
0°-40°	1423.5	19.9
0°-60°	1864.9	26.1
0°-90°	1915.1	26.8
90°-120°	2494.5	34.9
90°-150°	4548.9	63.7
90°-180°	5227.0	73.2
0°-180°	7141.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1574	1558	1570	1575	1581	146
15°	1298	1293	1339	1384	1414	361
25°	941	949	1016	1085	1136	432
35°	604	619	687	767	837	374
45°	290	307	359	429	496	228
55°	104	122	157	201	248	97
65°	12	22	50	60	67	20
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	41	208	713	464	325	46
105°	161	278	1209	1564	1544	170
115°	294	376	971	1841	2053	291
125°	419	482	843	1464	1720	374
135°	515	575	809	1155	1328	397
145°	609	654	793	981	1058	380
155°	698	728	804	869	901	322
165°	771	783	814	826	838	218
175°	816	812	816	809	807	77
180°	807	807	807	807	807	



TEST NUMBER: P521261

CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1609.1	1593.9	1597.9	1597.8	1593.6
5°	1573.5	1557.6	1569.6	1575.2	1581.3
7.5°	1507.0	1494.6	1517.8	1535.1	1547.7
10°	1455.5	1444.8	1474.9	1498.6	1516.1
12.5°	1395.8	1387.6	1423.9	1456.4	1478.8
15°	1297.8	1293.3	1339.0	1383.9	1413.5
17.5°	1192.8	1192.7	1244.8	1300.6	1336.3
20°	1120.7	1123.0	1179.0	1240.5	1282.3
22.5°	1048.7	1054.0	1113.7	1177.9	1225.7
25°	941.3	948.9	1015.9	1085.4	1136.3
27.5°	838.2	849.3	919.7	992.0	1053.9
30°	770.5	783.4	855.1	931.1	994.9
32.5°	704.0	719.3	789.2	869.6	934.6
35°	604.2	619.4	686.6	767.4	837.2
37.5°	501.3	516.1	581.7	661.3	736.7
40°	434.2	450.9	513.4	590.5	667.2
42.5°	373.3	390.0	448.8	524.5	596.9
45°	289.7	307.2	358.8	428.7	495.5
47.5°	220.4	239.4	284.7	347.9	408.8
50°	179.4	198.4	243.1	298.8	357.3
52.5°	146.5	164.9	205.2	257.7	311.3
55°	104.1	121.5	156.9	201.4	247.8
57.5°	71.9	87.0	118.7	155.8	192.1
60°	52.0	66.5	96.3	126.5	156.1
62.5°	34.6	47.9	77.0	100.2	120.1
65°	11.7	22.3	49.7	60.0	66.8
67.5°	5.9	7.1	26.1	27.5	29.8
70°	4.7	4.7	12.4	13.3	15.5
72.5°	3.4	3.4	5.0	6.4	6.8
75°	1.6	1.6	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	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°	13.7	112.6	265.3	129.0	87.5
95°	41.0	208.2	712.9	463.6	324.8
97.5°	72.8	230.6	939.0	904.6	776.5
100°	97.5	244.6	1063.4	1122.6	1017.3
102.5°	120.7	257.1	1145.5	1304.1	1241.6
105°	160.7	277.7	1208.8	1563.9	1543.9
107.5°	200.0	302.0	1171.5	1772.3	1819.5
110°	227.4	322.7	1111.3	1862.2	1950.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	343.3	1058.0	1884.1	2035.6
115°	294.1	376.0	971.1	1841.0	2053.3
117.5°	333.0	410.3	920.2	1742.0	1990.8
120°	359.0	430.9	887.3	1664.3	1925.1
122.5°	386.4	452.9	866.8	1584.9	1841.7
125°	418.9	482.4	842.9	1464.2	1720.0
127.5°	451.0	510.9	826.1	1361.9	1586.6
130°	470.2	528.7	820.7	1290.7	1511.4
132.5°	487.9	549.1	812.4	1239.3	1426.6
135°	514.6	574.8	808.7	1154.6	1328.4
137.5°	539.9	600.4	796.7	1097.2	1228.2
140°	559.1	614.2	796.7	1055.9	1176.3
142.5°	578.2	633.4	789.9	1019.9	1121.6
145°	608.7	653.8	793.3	981.4	1058.3
147.5°	637.0	680.8	791.2	937.0	1000.5
150°	654.8	693.3	796.7	917.5	967.7
152.5°	674.0	711.1	795.4	896.9	941.7
155°	697.6	727.6	803.6	869.2	901.0
157.5°	725.9	751.7	801.8	858.7	877.4
160°	736.9	758.6	808.7	844.9	858.3
162.5°	754.7	773.7	806.0	840.7	848.7
165°	771.1	782.8	813.8	826.0	837.8
167.5°	791.2	798.9	811.8	825.1	825.4
170°	796.7	801.7	817.2	815.7	824.1
172.5°	806.3	810.0	813.1	816.8	811.8
175°	815.5	812.2	815.5	808.6	807.0
177.5°	813.8	813.8	811.1	808.2	801.5
180°	807.0	807.0	807.0	807.0	807.0

(END OF REPORT)