

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: P521337

Luminaire Tested: **SQ4-BB-150U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521337  
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-150U-125D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

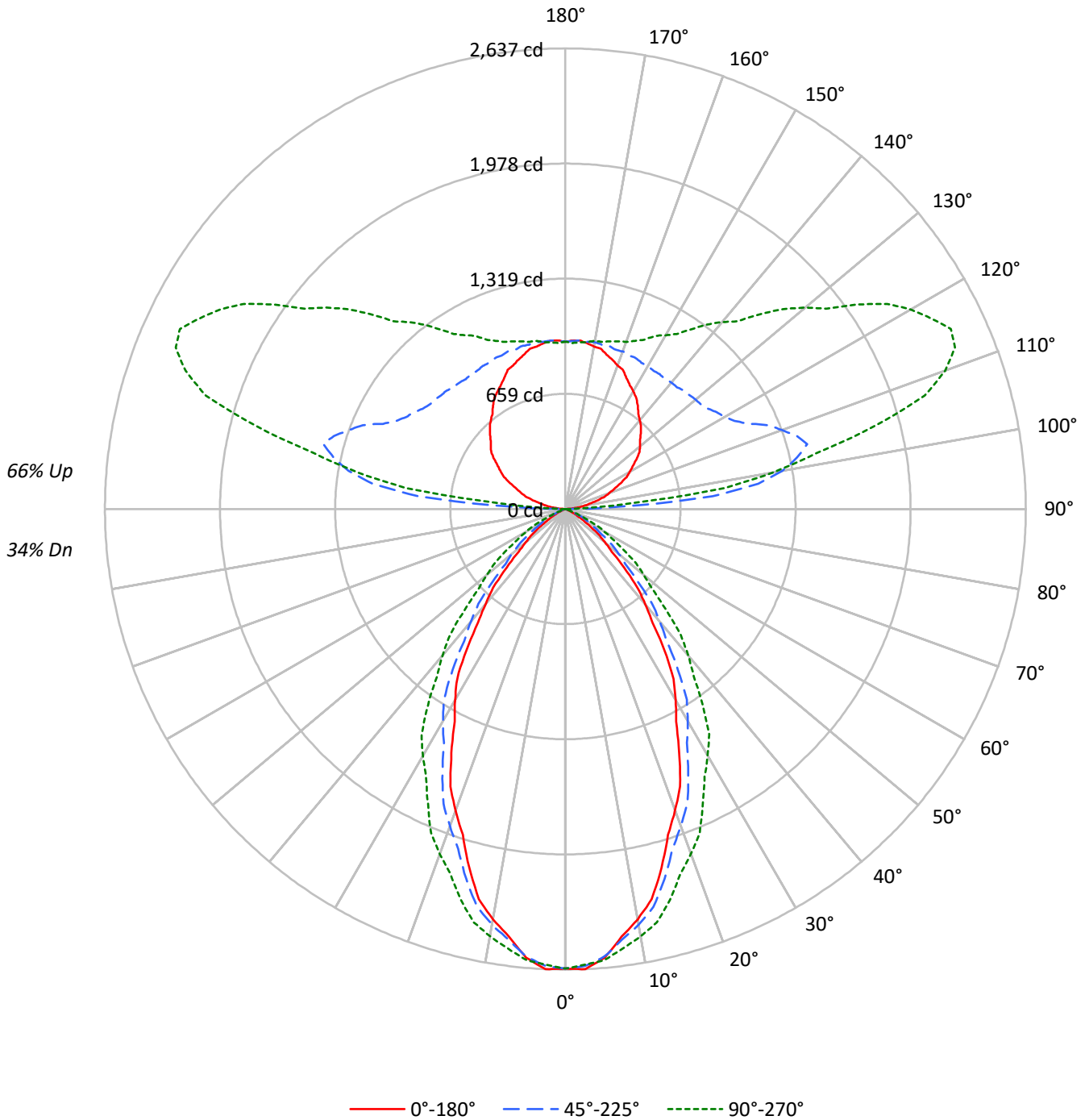
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9340.3 lumens  
Efficiency: N/A  
Efficacy: 87.6 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): 106.6  
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	38	37	31
2	88	81	76	72	79	74	69	66	60	57	54	47	45	43	35	34	33	28
3	81	73	66	61	73	66	61	56	54	50	47	43	40	38	32	31	30	25
4	75	65	58	53	67	59	53	49	49	45	41	39	36	34	30	28	27	23
5	69	59	51	46	62	54	47	43	44	40	36	36	32	30	27	26	24	21
6	64	53	46	40	58	49	42	38	40	36	32	33	29	27	25	23	22	19
7	59	48	41	36	54	44	38	34	37	32	29	30	27	24	23	21	20	17
8	55	44	37	32	50	41	34	30	34	29	26	28	25	22	22	20	18	16
9	52	40	34	29	47	37	31	27	31	27	24	26	23	20	20	18	17	15
10	48	37	31	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14

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

	0°	45°	90°
0°	24275	24275	24275
5°	23884	23825	24002
10°	22348	22647	23278
15°	20316	20961	22128
20°	18034	18972	20634
25°	15706	16950	18958
30°	13452	14931	17372
35°	11154	12674	15455
40°	8570	10134	13169
45°	6195	7673	10596
50°	4220	5718	8404
55°	2744	4136	6532
60°	1574	2912	4722
65°	417	1779	2391
70°	205	550	688
75°	89	46	0
80°	69	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	2.6
10°-20°	614.1	6.6
20°-30°	768.7	8.2
30°-40°	710.1	7.6
40°-50°	477.1	5.1
50°-60°	246.4	2.6
60°-70°	77.2	0.8
70°-80°	4.9	0.1
80°-90°	0.1	0.0
90°-100°	493.7	5.3
100°-110°	1193.3	12.8
110°-120°	1272.7	13.6
120°-130°	1030.8	11.0
130°-140°	798.1	8.5
140°-150°	608.8	6.5
150°-160°	440.7	4.7
160°-170°	271.4	2.9
170°-180°	91.9	1.0
0°-30°	1622.9	17.4
0°-40°	2333.0	25.0
0°-60°	3056.5	32.7
0°-90°	3138.7	33.6
90°-120°	2959.8	31.7
90°-150°	5397.5	57.8
90°-180°	6202.0	66.4
0°-180°	9340.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2579	2553	2572	2582	2592	239
15°	2127	2120	2194	2268	2317	592
25°	1543	1555	1665	1779	1862	707
35°	990	1015	1125	1258	1372	613
45°	475	503	588	703	812	373
55°	171	199	257	330	406	159
65°	19	36	82	98	110	32
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	49	247	846	550	385	55
105°	191	330	1434	1856	1832	201
115°	349	446	1152	2184	2436	345
125°	497	572	1000	1737	2041	443
135°	611	682	960	1370	1576	471
145°	722	776	941	1164	1256	451
155°	828	863	954	1031	1069	382
165°	915	929	966	980	994	258
175°	968	964	968	960	958	91
180°	958	958	958	958	958	



TEST NUMBER: P521337

CATALOG NUMBER: SQ4-BB-150U-125D-93050-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2637.2	2612.3	2618.9	2618.7	2611.8
5°	2578.9	2552.8	2572.5	2581.7	2591.6
7.5°	2469.9	2449.5	2487.5	2516.0	2536.6
10°	2385.4	2368.0	2417.3	2456.1	2484.7
12.5°	2287.7	2274.2	2333.7	2387.0	2423.6
15°	2127.0	2119.6	2194.5	2268.2	2316.7
17.5°	1954.9	1954.7	2040.2	2131.7	2190.2
20°	1836.8	1840.5	1932.3	2033.1	2101.6
22.5°	1718.7	1727.4	1825.3	1930.5	2008.9
25°	1542.8	1555.2	1665.0	1778.9	1862.3
27.5°	1373.7	1391.9	1507.4	1625.8	1727.3
30°	1262.7	1283.9	1401.5	1526.0	1630.6
32.5°	1153.8	1178.9	1293.5	1425.3	1531.8
35°	990.3	1015.2	1125.3	1257.7	1372.2
37.5°	821.5	845.9	953.4	1083.8	1207.5
40°	711.6	738.9	841.4	967.7	1093.4
42.5°	611.8	639.1	735.5	859.6	978.4
45°	474.8	503.4	588.1	702.6	812.1
47.5°	361.3	392.4	466.6	570.2	670.1
50°	294.0	325.2	398.4	489.7	585.5
52.5°	240.1	270.2	336.3	422.3	510.2
55°	170.6	199.2	257.1	330.1	406.1
57.5°	117.9	142.5	194.5	255.4	314.9
60°	85.3	108.9	157.8	207.3	255.9
62.5°	56.8	78.4	126.3	164.2	196.8
65°	19.1	36.5	81.5	98.3	109.5
67.5°	9.7	11.7	42.8	45.1	48.9
70°	7.6	7.6	20.4	21.7	25.5
72.5°	5.6	5.6	8.1	10.5	11.2
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°	16.2	133.7	314.8	153.1	103.9
95°	48.7	247.0	845.9	550.1	385.4
97.5°	86.4	273.7	1114.1	1073.3	921.4
100°	115.6	290.2	1261.8	1332.0	1207.0
102.5°	143.2	305.1	1359.2	1547.4	1473.2
105°	190.7	329.5	1434.2	1855.7	1831.9
107.5°	237.3	358.3	1390.0	2102.9	2158.9
110°	269.8	382.9	1318.6	2209.5	2314.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	302.3	407.4	1255.3	2235.6	2415.3
115°	348.9	446.1	1152.3	2184.5	2436.4
117.5°	395.2	486.8	1091.8	2067.0	2362.1
120°	426.0	511.3	1052.9	1974.8	2284.2
122.5°	458.5	537.4	1028.5	1880.6	2185.2
125°	497.0	572.4	1000.1	1737.3	2040.8
127.5°	535.2	606.2	980.2	1616.0	1882.6
130°	557.9	627.3	973.7	1531.5	1793.3
132.5°	579.0	651.6	964.0	1470.5	1692.7
135°	610.6	682.0	959.5	1370.0	1576.2
137.5°	640.6	712.4	945.3	1301.9	1457.4
140°	663.4	728.8	945.3	1252.9	1395.7
142.5°	686.1	751.5	937.2	1210.2	1330.8
145°	722.2	775.7	941.3	1164.5	1255.7
147.5°	755.9	807.8	938.9	1111.8	1187.2
150°	777.0	822.6	945.3	1088.7	1148.2
152.5°	799.7	843.7	943.7	1064.2	1117.4
155°	827.7	863.4	953.5	1031.4	1069.1
157.5°	861.4	891.9	951.4	1018.9	1041.1
160°	874.3	900.1	959.5	1002.5	1018.4
162.5°	895.4	918.1	956.3	997.5	1007.0
165°	914.9	928.8	965.6	980.1	994.0
167.5°	938.9	948.0	963.2	979.0	979.4
170°	945.3	951.3	969.7	967.9	977.8
172.5°	956.7	961.1	964.8	969.1	963.2
175°	967.7	963.7	967.7	959.5	957.5
177.5°	965.6	965.6	962.4	959.0	951.0
180°	957.5	957.5	957.5	957.5	957.5

(END OF REPORT)