

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: P521336

Luminaire Tested: **SQ4-BB-150U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521336  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

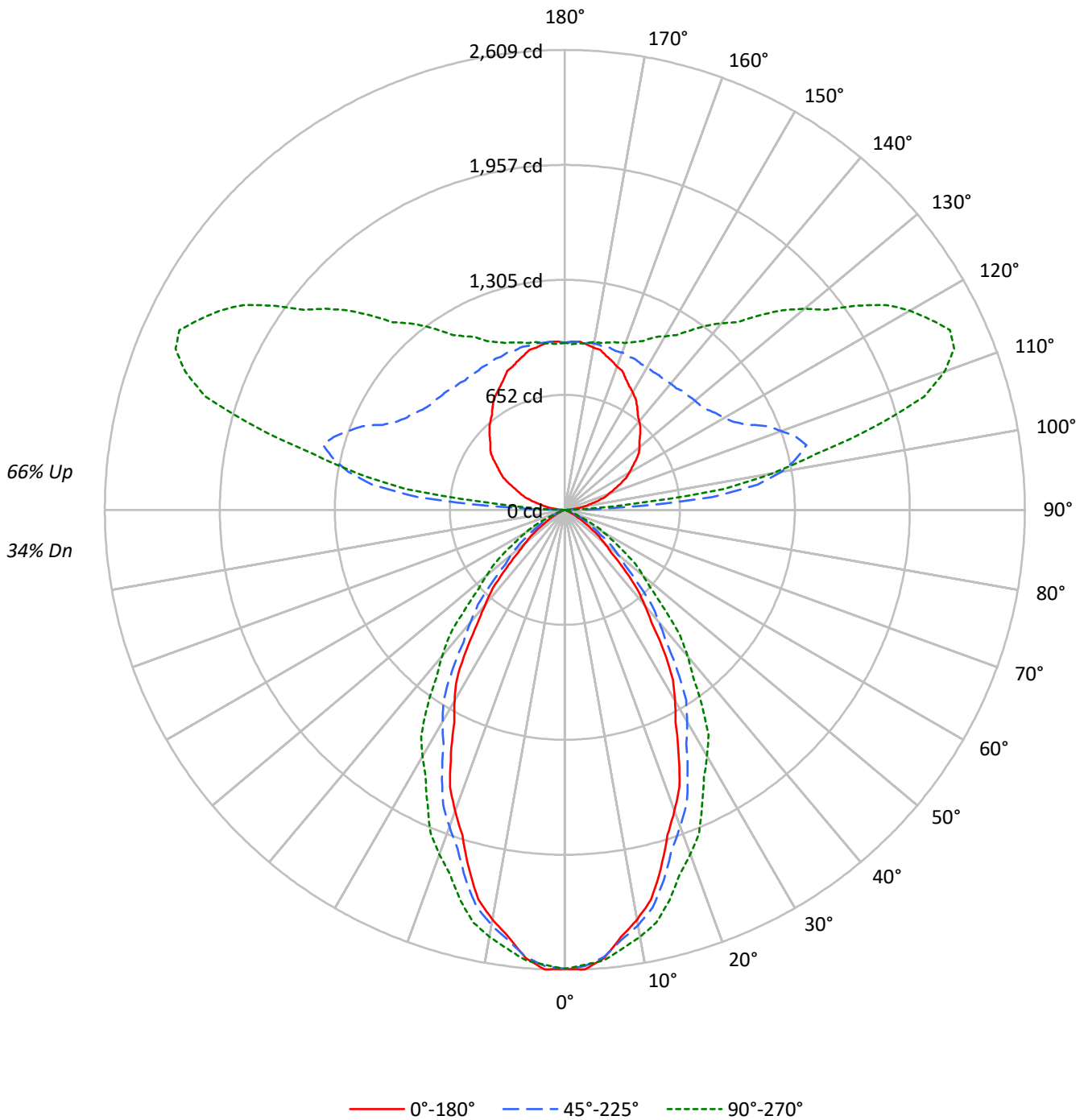
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9242.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 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°	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	2.6
10°-20°	607.6	6.6
20°-30°	760.6	8.2
30°-40°	702.6	7.6
40°-50°	472.1	5.1
50°-60°	243.8	2.6
60°-70°	76.4	0.8
70°-80°	4.8	0.1
80°-90°	0.1	0.0
90°-100°	488.5	5.3
100°-110°	1180.8	12.8
110°-120°	1259.3	13.6
120°-130°	1020.0	11.0
130°-140°	789.7	8.5
140°-150°	602.4	6.5
150°-160°	436.1	4.7
160°-170°	268.6	2.9
170°-180°	90.9	1.0
0°-30°	1605.8	17.4
0°-40°	2308.4	25.0
0°-60°	3024.3	32.7
0°-90°	3105.6	33.6
90°-120°	2928.6	31.7
90°-150°	5340.7	57.8
90°-180°	6136.0	66.4
0°-180°	9242.0	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	2
95°	48	244	837	544	381	54
105°	189	326	1419	1836	1813	199
115°	345	441	1140	2162	2411	341
125°	492	566	990	1719	2019	439
135°	604	675	949	1356	1560	466
145°	715	768	931	1152	1242	447
155°	819	854	943	1020	1058	378
165°	905	919	956	970	984	255
175°	958	954	958	949	947	90
180°	947	947	947	947	947	

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**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°	16.1	132.2	311.5	151.4	102.8
95°	48.2	244.4	837.0	544.3	381.4
97.5°	85.5	270.8	1102.4	1062.0	911.7
100°	114.4	287.1	1248.5	1318.0	1194.3
102.5°	141.7	301.9	1344.9	1531.1	1457.7
105°	188.7	326.1	1419.1	1836.1	1812.6
107.5°	234.9	354.6	1375.4	2080.8	2136.1
110°	267.0	378.8	1304.7	2186.3	2290.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	299.1	403.1	1242.1	2212.0	2389.9
115°	345.3	441.4	1140.1	2161.5	2410.7
117.5°	391.0	481.7	1080.3	2045.2	2337.3
120°	421.5	505.9	1041.8	1954.0	2260.2
122.5°	453.6	531.8	1017.7	1860.8	2162.2
125°	491.8	566.4	989.6	1719.0	2019.3
127.5°	529.5	599.8	969.9	1599.0	1862.7
130°	552.0	620.7	963.5	1515.4	1774.4
132.5°	572.9	644.7	953.9	1455.0	1674.9
135°	604.2	674.8	949.4	1355.5	1559.6
137.5°	633.9	704.9	935.4	1288.2	1442.0
140°	656.4	721.1	935.4	1239.7	1381.0
142.5°	678.9	743.6	927.4	1197.4	1316.8
145°	714.6	767.6	931.4	1152.2	1242.5
147.5°	747.9	799.3	929.0	1100.1	1174.7
150°	768.8	813.9	935.4	1077.2	1136.1
152.5°	791.3	834.8	933.8	1053.0	1105.6
155°	819.0	854.3	943.4	1020.5	1057.8
157.5°	852.3	882.5	941.4	1008.1	1030.1
160°	865.1	890.6	949.4	991.9	1007.7
162.5°	886.0	908.4	946.2	987.0	996.4
165°	905.3	919.0	955.5	969.8	983.6
167.5°	929.0	938.0	953.1	968.7	969.1
170°	935.4	941.3	959.5	957.7	967.5
172.5°	946.6	950.9	954.7	958.9	953.1
175°	957.5	953.5	957.5	949.4	947.4
177.5°	955.5	955.5	952.2	948.9	941.0
180°	947.4	947.4	947.4	947.4	947.4

(END OF REPORT)