

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518869

Luminaire Tested: **SQ4-BB-125U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518869  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-125U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

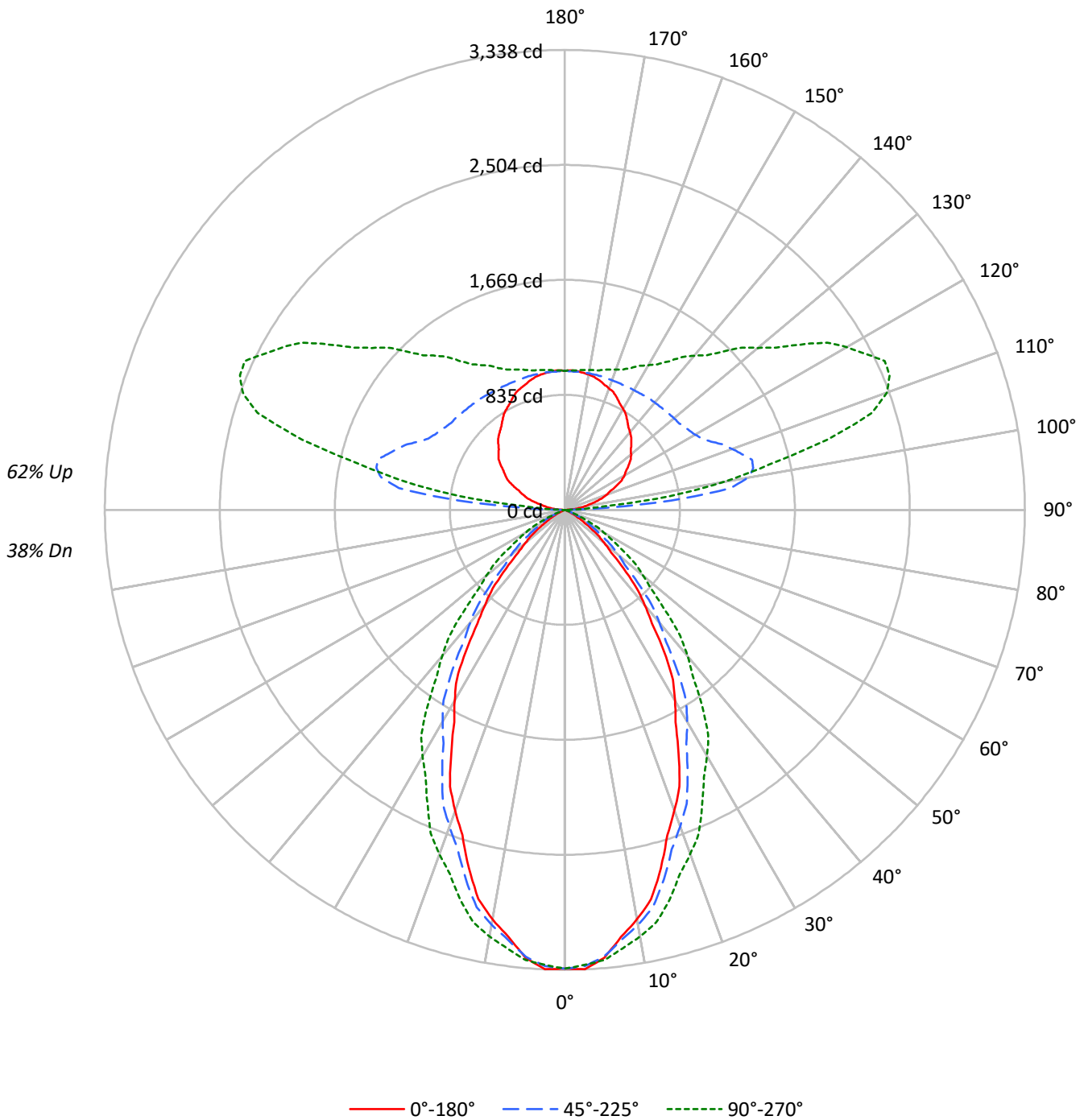
Lumens per Lamp: N/A  
Luminaire Lumens: 10490.3 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 117.2  
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

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

	0°	45°	90°
0°	20480	20480	20480
5°	20151	20101	20250
10°	18854	19106	19640
15°	17141	17685	18669
20°	15215	16006	17409
25°	13250	14300	15994
30°	11350	12597	14656
35°	9411	10692	13040
40°	7230	8550	11111
45°	5227	6473	8940
50°	3561	4825	7091
55°	2315	3489	5511
60°	1327	2458	3983
65°	352	1501	2016
70°	174	464	579
75°	76	38	0
80°	57	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.9	2.9
10°-20°	777.1	7.4
20°-30°	972.9	9.3
30°-40°	898.6	8.6
40°-50°	603.8	5.8
50°-60°	311.9	3.0
60°-70°	97.7	0.9
70°-80°	6.2	0.1
80°-90°	2.5	0.0
90°-100°	472.2	4.5
100°-110°	1271.9	12.1
110°-120°	1334.8	12.7
120°-130°	1083.2	10.3
130°-140°	849.5	8.1
140°-150°	652.2	6.2
150°-160°	468.9	4.5
160°-170°	286.5	2.7
170°-180°	96.6	0.9
0°-30°	2053.8	19.6
0°-40°	2952.4	28.1
0°-60°	3868.1	36.9
0°-90°	3974.5	37.9
90°-120°	3078.9	29.3
90°-150°	5663.8	54.0
90°-180°	6516.0	62.1
0°-180°	10490.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3330	3330	3330	3330	3330	
5°	3264	3231	3256	3267	3280	303
15°	2692	2682	2777	2870	2932	750
25°	1952	1968	2107	2251	2357	895
35°	1253	1285	1424	1592	1737	776
45°	601	637	744	889	1028	472
55°	216	252	325	418	514	201
65°	24	46	103	124	138	41
75°	3	3	2	0	0	5
85°	0	0	0	0	0	0
90°	3	8	15	17	17	5
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3329.7	3329.7	3329.7	3329.7	3329.7
2.5°	3337.5	3306.0	3314.3	3314.1	3305.2
5°	3263.7	3230.6	3255.6	3267.2	3279.8
7.5°	3125.8	3100.0	3148.0	3184.1	3210.2
10°	3018.8	2996.8	3059.1	3108.3	3144.5
12.5°	2895.1	2878.1	2953.4	3020.8	3067.2
15°	2691.8	2682.4	2777.2	2870.4	2931.8
17.5°	2474.0	2473.7	2582.0	2697.7	2771.7
20°	2324.5	2329.3	2445.3	2573.0	2659.6
22.5°	2175.0	2186.1	2310.0	2443.1	2542.3
25°	1952.4	1968.2	2107.1	2251.2	2356.7
27.5°	1738.5	1761.5	1907.6	2057.5	2186.0
30°	1598.0	1624.8	1773.6	1931.3	2063.6
32.5°	1460.1	1491.9	1637.0	1803.7	1938.6
35°	1253.3	1284.8	1424.0	1591.6	1736.6
37.5°	1039.7	1070.5	1206.6	1371.5	1528.1
40°	900.5	935.1	1064.8	1224.7	1383.8
42.5°	774.2	808.9	930.8	1087.9	1238.1
45°	600.9	637.1	744.2	889.1	1027.8
47.5°	457.2	496.6	590.6	721.7	848.0
50°	372.1	411.5	504.2	619.7	741.0
52.5°	303.8	341.9	425.6	534.4	645.6
55°	215.9	252.1	325.4	417.8	513.9
57.5°	149.2	180.4	246.1	323.2	398.5
60°	107.9	137.9	199.8	262.4	323.8
62.5°	71.8	99.3	159.8	207.8	249.0
65°	24.2	46.2	103.1	124.4	138.5
67.5°	12.2	14.8	54.1	57.1	61.9
70°	9.7	9.7	25.8	27.5	32.2
72.5°	7.1	7.1	10.3	13.2	14.2
75°	3.2	3.2	1.6	0.0	0.0
77.5°	1.6	1.6	1.3	0.0	0.0
80°	1.6	1.6	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°	0.5	1.5	3.1	3.3	3.3
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)