

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: P518793

Luminaire Tested: **SQ4-BB-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518793  
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-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

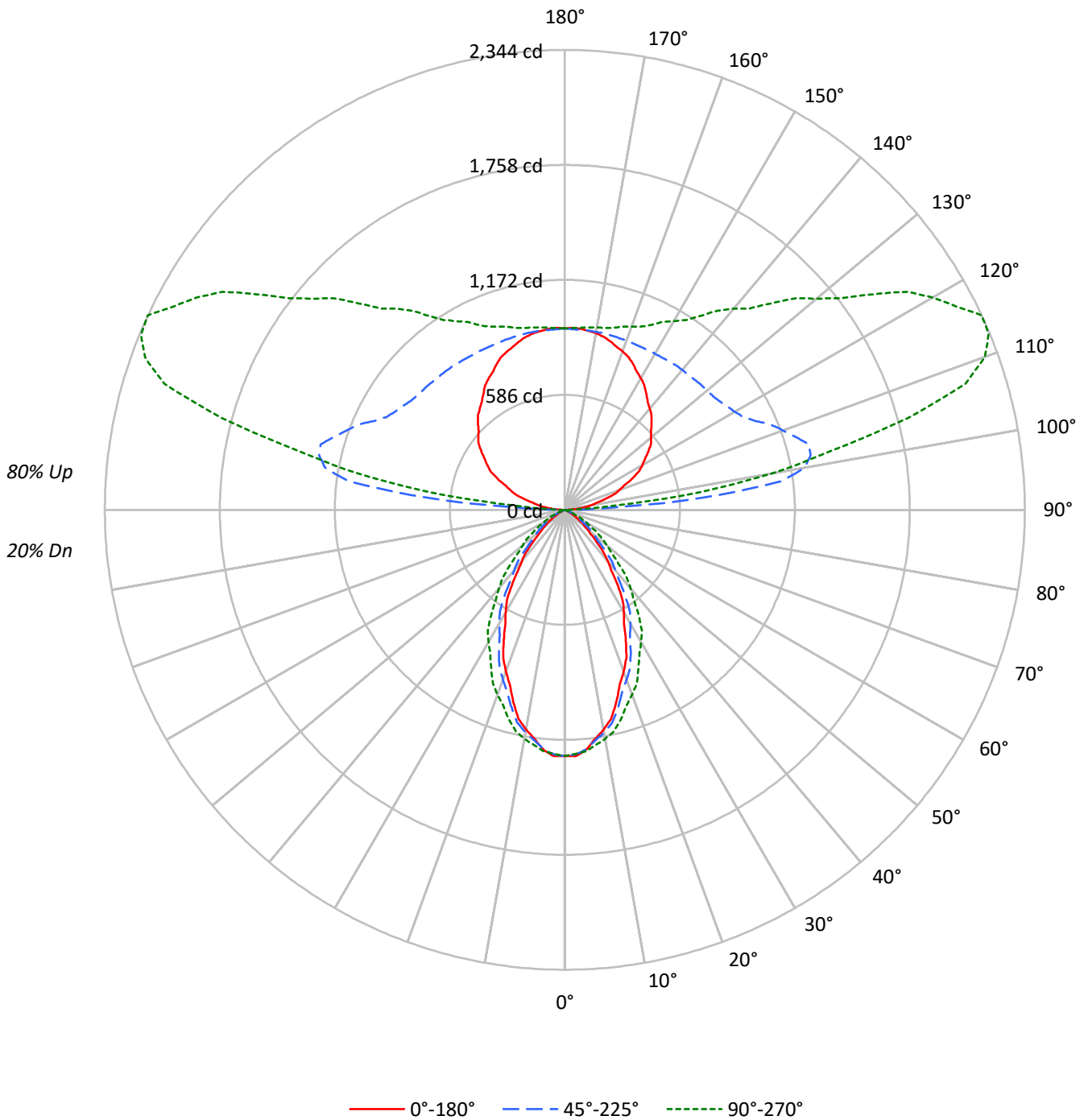
Lumens per Lamp: N/A  
Luminaire Lumens: 7465.6 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.2  
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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20
1	92	88	84	81	81	78	75	73	59	58	56	42	41	40	26	26	25	18
2	84	78	72	68	74	69	64	61	53	50	47	38	36	35	24	23	23	17
3	77	69	62	57	68	61	56	52	47	44	41	34	32	30	22	21	20	15
4	71	61	54	49	63	55	49	44	42	38	35	31	28	26	20	19	18	14
5	65	55	47	42	58	49	43	38	38	34	31	28	25	23	19	17	16	12
6	60	49	42	37	53	44	38	33	35	30	27	26	23	21	17	16	15	11
7	56	45	37	32	49	40	34	29	31	27	24	23	21	19	16	14	13	10
8	52	40	33	29	46	36	30	26	29	24	21	21	19	17	15	13	12	9
9	48	37	30	26	43	33	27	23	26	22	19	20	17	15	14	12	11	9
10	45	34	27	23	40	31	25	21	24	20	17	18	16	14	13	11	10	8

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

	0°	45°	90°
0°	7714	7714	7714
5°	7590	7572	7628
10°	7102	7197	7397
15°	6456	6661	7032
20°	5731	6029	6557
25°	4991	5387	6025
30°	4275	4745	5521
35°	3545	4028	4911
40°	2724	3221	4185
45°	1968	2438	3367
50°	1342	1817	2671
55°	872	1315	2076
60°	501	925	1501
65°	132	565	760
70°	65	174	218
75°	29	14	0
80°	21	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.5
10°-20°	292.7	3.9
20°-30°	366.4	4.9
30°-40°	338.5	4.5
40°-50°	227.4	3.0
50°-60°	117.5	1.6
60°-70°	36.8	0.5
70°-80°	2.3	0.0
80°-90°	2.2	0.0
90°-100°	432.4	5.8
100°-110°	1164.8	15.6
110°-120°	1222.5	16.4
120°-130°	992.0	13.3
130°-140°	778.0	10.4
140°-150°	597.3	8.0
150°-160°	429.5	5.8
160°-170°	262.4	3.5
170°-180°	88.5	1.2
0°-30°	773.6	10.4
0°-40°	1112.1	14.9
0°-60°	1457.0	19.5
0°-90°	1498.3	20.1
90°-120°	2819.7	37.8
90°-150°	5187.0	69.5
90°-180°	5967.0	79.9
0°-180°	7465.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1229	1217	1226	1231	1235	114
15°	1014	1010	1046	1081	1104	282
25°	735	741	794	848	888	337
35°	472	484	536	600	654	292
45°	226	240	280	335	387	178
55°	81	95	123	157	194	76
65°	9	17	39	47	52	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	2	7	14	15	15	5
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1257.1	1245.2	1248.4	1248.3	1245.0
5°	1229.3	1216.9	1226.3	1230.6	1235.4
7.5°	1177.4	1167.6	1185.7	1199.3	1209.2
10°	1137.1	1128.8	1152.3	1170.8	1184.4
12.5°	1090.5	1084.1	1112.5	1137.8	1155.3
15°	1013.9	1010.4	1046.1	1081.2	1104.3
17.5°	931.9	931.8	972.5	1016.1	1044.0
20°	875.6	877.3	921.1	969.1	1001.8
22.5°	819.3	823.4	870.1	920.2	957.6
25°	735.4	741.3	793.7	848.0	887.7
27.5°	654.8	663.5	718.5	775.0	823.4
30°	601.9	612.0	668.1	727.4	777.3
32.5°	550.0	562.0	616.6	679.4	730.2
35°	472.1	483.9	536.4	599.5	654.1
37.5°	391.6	403.2	454.5	516.6	575.6
40°	339.2	352.2	401.1	461.3	521.2
42.5°	291.6	304.7	350.6	409.8	466.4
45°	226.3	240.0	280.3	334.9	387.1
47.5°	172.2	187.0	222.4	271.8	319.4
50°	140.2	155.0	189.9	233.4	279.1
52.5°	114.4	128.8	160.3	201.3	243.2
55°	81.3	95.0	122.6	157.4	193.6
57.5°	56.2	67.9	92.7	121.8	150.1
60°	40.7	51.9	75.2	98.8	122.0
62.5°	27.1	37.4	60.2	78.3	93.8
65°	9.1	17.4	38.8	46.8	52.2
67.5°	4.6	5.6	20.4	21.5	23.3
70°	3.6	3.6	9.7	10.4	12.1
72.5°	2.7	2.7	3.9	5.0	5.3
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.4	2.8	3.1	3.1
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)