

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: P518527

Luminaire Tested: **SQ4-BB-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518527  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

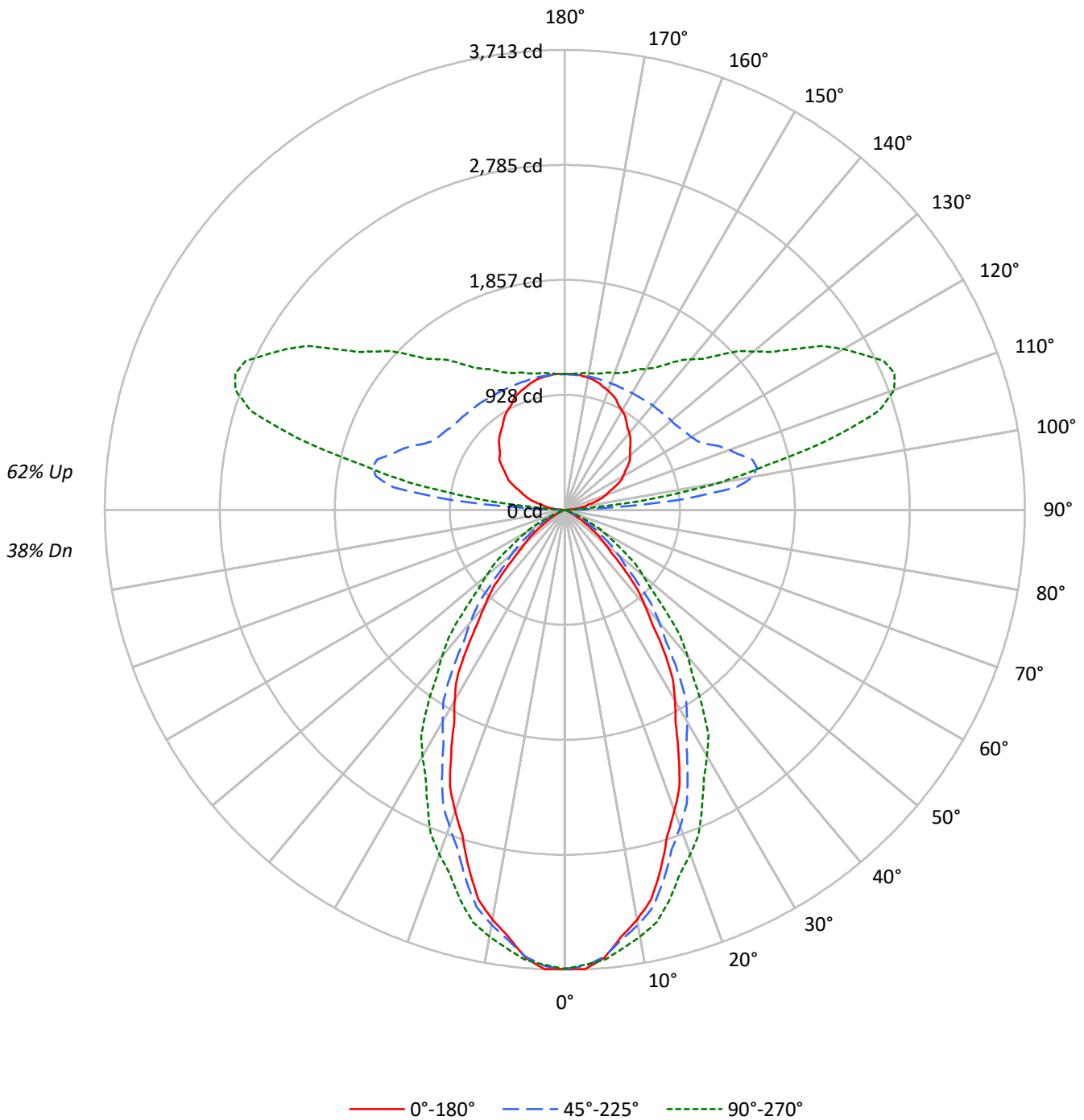
Lumens per Lamp: N/A  
Luminaire Lumens: 11569.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 133.4  
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	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	85	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	76	71	67	62	59	57	50	48	46	39	38	37	32				
3	82	74	68	62	75	68	62	58	56	52	49	46	43	41	36	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	42	39	36	33	31	30	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	38	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	20				
8	56	45	38	33	52	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	42	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17				
10	49	38	32	27	45	36	30	26	31	26	23	26	23	20	21	19	17	15				

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

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10925
15°	9535	9838	10386
20°	8464	8904	9684
25°	7371	7955	8898
30°	6314	7008	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2907	3601	4973
50°	1981	2684	3944
55°	1288	1941	3065
60°	739	1367	2216
65°	196	835	1121
70°	97	258	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.1	2.9
10°-20°	864.6	7.5
20°-30°	1082.4	9.4
30°-40°	999.8	8.6
40°-50°	671.8	5.8
50°-60°	347.0	3.0
60°-70°	108.7	0.9
70°-80°	6.9	0.1
80°-90°	2.9	0.0
90°-100°	517.4	4.5
100°-110°	1423.6	12.3
110°-120°	1469.4	12.7
120°-130°	1177.3	10.2
130°-140°	924.7	8.0
140°-150°	708.6	6.1
150°-160°	509.5	4.4
160°-170°	311.5	2.7
170°-180°	105.0	0.9
0°-30°	2285.0	19.8
0°-40°	3284.8	28.4
0°-60°	4303.6	37.2
0°-90°	4422.0	38.2
90°-120°	3410.4	29.5
90°-150°	6220.9	53.8
90°-180°	7147.0	61.8
0°-180°	11569.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3705	3705	3705	3705	3705	
5°	3631	3594	3622	3635	3649	337
15°	2995	2984	3090	3194	3262	834
25°	2172	2190	2344	2505	2622	996
35°	1394	1429	1584	1771	1932	864
45°	668	709	828	989	1144	525
55°	240	280	362	465	572	224
65°	27	51	115	138	154	45
75°	4	4	2	0	0	5
85°	0	0	0	0	0	0
90°	2	9	16	21	21	5
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3704.6	3704.6	3704.6	3704.6	3704.6
2.5°	3713.2	3678.1	3687.4	3687.1	3677.3
5°	3631.1	3594.3	3622.1	3635.0	3649.0
7.5°	3477.7	3448.9	3502.4	3542.5	3571.6
10°	3358.7	3334.1	3403.5	3458.2	3498.5
12.5°	3221.0	3202.1	3285.9	3360.9	3412.4
15°	2994.8	2984.3	3089.8	3193.5	3261.9
17.5°	2752.5	2752.2	2872.6	3001.4	3083.7
20°	2586.2	2591.5	2720.6	2862.6	2959.0
22.5°	2419.9	2432.2	2570.1	2718.1	2828.5
25°	2172.2	2189.7	2344.3	2504.6	2622.1
27.5°	1934.2	1959.8	2122.4	2289.1	2432.1
30°	1777.9	1807.7	1973.3	2148.7	2295.9
32.5°	1624.5	1659.9	1821.3	2006.8	2156.8
35°	1394.4	1429.4	1584.3	1770.8	1932.0
37.5°	1156.7	1191.1	1342.4	1525.9	1700.1
40°	1001.9	1040.4	1184.7	1362.5	1539.5
42.5°	861.4	899.9	1035.6	1210.3	1377.5
45°	668.5	708.8	828.0	989.2	1143.5
47.5°	508.6	552.4	657.0	802.9	943.4
50°	414.0	457.8	561.0	689.5	824.4
52.5°	338.0	380.4	473.5	594.6	718.3
55°	240.2	280.5	362.0	464.8	571.7
57.5°	166.0	200.7	273.9	359.6	443.4
60°	120.1	153.4	222.2	291.9	360.2
62.5°	79.9	110.4	177.8	231.2	277.1
65°	26.9	51.4	114.7	138.4	154.1
67.5°	13.6	16.4	60.2	63.6	68.8
70°	10.8	10.8	28.7	30.6	35.8
72.5°	7.9	7.9	11.5	14.7	15.8
75°	3.6	3.6	1.8	0.0	0.0
77.5°	1.8	1.8	1.4	0.0	0.0
80°	1.8	1.8	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.8	3.3	4.2	4.2
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)