

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: P518535

Luminaire Tested: **SQ4-BB-075U-075D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518535  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

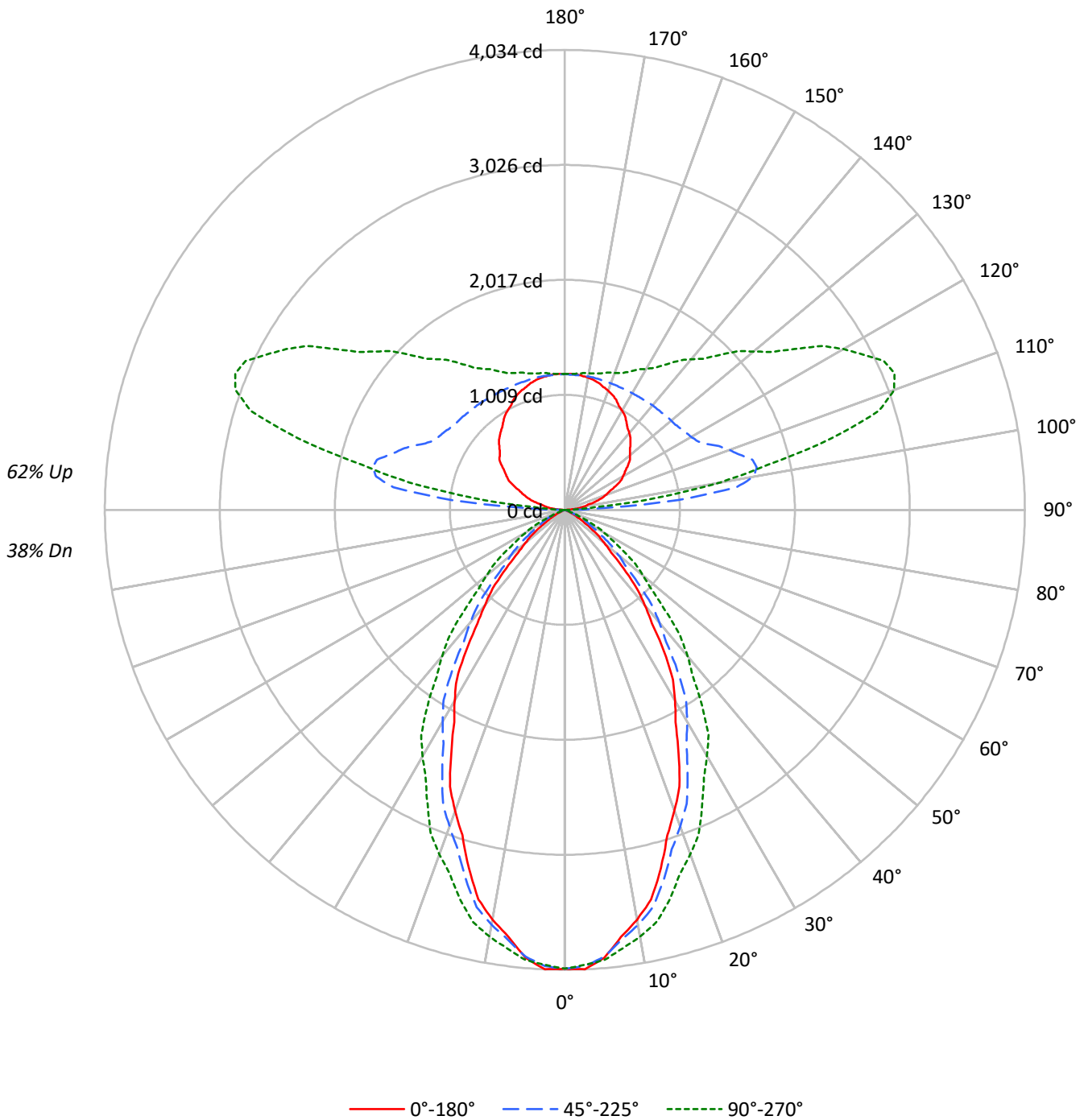
Lumens per Lamp: N/A  
Luminaire Lumens: 12568.1 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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°	12377	12377	12377
5°	12178	12148	12238
10°	11394	11546	11869
15°	10359	10687	11282
20°	9195	9673	10520
25°	8008	8642	9666
30°	6859	7613	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3158	3912	5403
50°	2152	2916	4285
55°	1399	2109	3330
60°	803	1485	2407
65°	212	907	1218
70°	105	281	350
75°	46	23	0
80°	34	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.3	2.9
10°-20°	939.3	7.5
20°-30°	1175.8	9.4
30°-40°	1086.1	8.6
40°-50°	729.8	5.8
50°-60°	377.0	3.0
60°-70°	118.1	0.9
70°-80°	7.5	0.1
80°-90°	3.2	0.0
90°-100°	562.1	4.5
100°-110°	1546.5	12.3
110°-120°	1596.3	12.7
120°-130°	1279.0	10.2
130°-140°	1004.5	8.0
140°-150°	769.8	6.1
150°-160°	553.5	4.4
160°-170°	338.4	2.7
170°-180°	114.1	0.9
0°-30°	2482.4	19.8
0°-40°	3568.5	28.4
0°-60°	4675.2	37.2
0°-90°	4803.9	38.2
90°-120°	3704.9	29.5
90°-150°	6758.2	53.8
90°-180°	7764.0	61.8
0°-180°	12568.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4024	4024	4024	4024	4024	
5°	3945	3905	3935	3949	3964	366
15°	3254	3242	3357	3469	3544	906
25°	2360	2379	2547	2721	2848	1082
35°	1515	1553	1721	1924	2099	938
45°	726	770	900	1075	1242	570
55°	261	305	393	505	621	243
65°	29	56	125	150	167	49
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	10	18	23	23	6
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	



TEST NUMBER: P518535

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4033.9	3995.8	4005.8	4005.6	3994.9
5°	3944.7	3904.7	3935.0	3948.9	3964.2
7.5°	3778.0	3746.8	3804.9	3848.4	3880.0
10°	3648.7	3622.1	3697.4	3756.8	3800.6
12.5°	3499.2	3478.6	3569.7	3651.2	3707.1
15°	3253.5	3242.1	3356.7	3469.4	3543.6
17.5°	2990.3	2989.9	3120.7	3260.6	3350.1
20°	2809.6	2815.3	2955.6	3109.8	3214.5
22.5°	2628.9	2642.2	2792.0	2952.9	3072.8
25°	2359.8	2378.8	2546.7	2721.0	2848.5
27.5°	2101.2	2129.0	2305.7	2486.8	2642.1
30°	1931.5	1963.8	2143.7	2334.2	2494.1
32.5°	1764.8	1803.2	1978.6	2180.1	2343.1
35°	1514.8	1552.9	1721.2	1923.8	2098.9
37.5°	1256.6	1293.9	1458.3	1657.7	1847.0
40°	1088.4	1130.3	1287.0	1480.2	1672.5
42.5°	935.7	977.6	1125.0	1314.9	1496.5
45°	726.2	770.0	899.5	1074.7	1242.2
47.5°	552.6	600.2	713.8	872.2	1024.9
50°	449.8	497.4	609.4	749.0	895.6
52.5°	367.2	413.3	514.4	646.0	780.4
55°	260.9	304.7	393.3	505.0	621.1
57.5°	180.3	218.0	297.5	390.7	481.7
60°	130.5	166.6	241.4	317.1	391.4
62.5°	86.8	120.0	193.1	251.1	301.0
65°	29.2	55.9	124.6	150.3	167.4
67.5°	14.8	17.8	65.4	69.1	74.8
70°	11.7	11.7	31.2	33.2	38.9
72.5°	8.6	8.6	12.5	16.0	17.1
75°	3.9	3.9	1.9	0.0	0.0
77.5°	1.9	1.9	1.6	0.0	0.0
80°	1.9	1.9	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	2.0	3.6	4.6	4.6
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)