

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: P518393

Luminaire Tested: **SQ4-BB-025U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518393  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

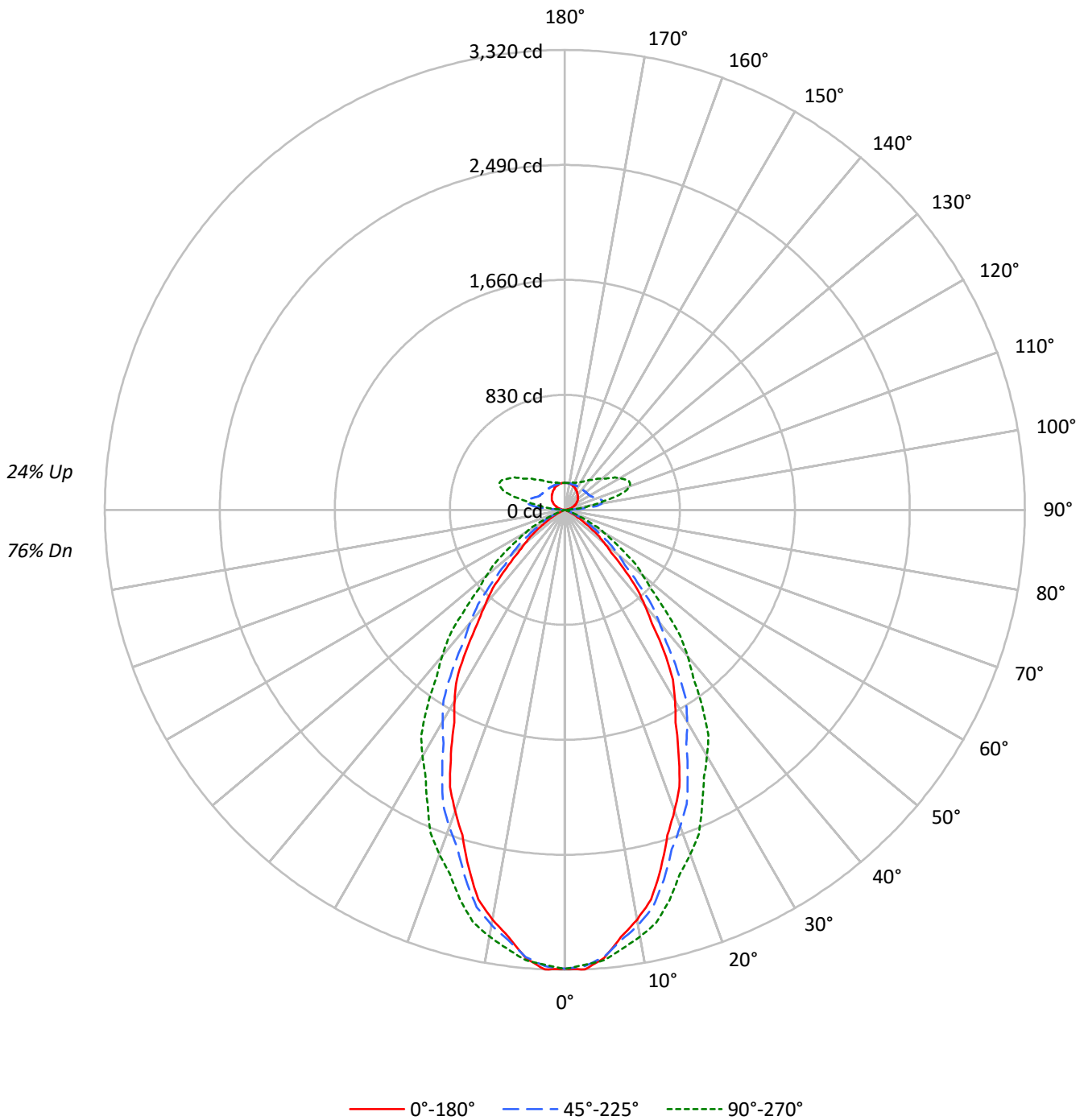
Lumens per Lamp: N/A  
Luminaire Lumens: 5218.1 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76				76
1	106	103	100	97	101	98	96	93	90	88	86	82	80	79	75	74	73	69				69
2	99	93	88	84	94	89	85	81	82	79	76	75	73	71	69	67	66	62				62
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	61	59	56				56
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51				51
5	80	70	63	58	77	68	61	57	63	58	54	59	55	51	55	51	49	46				46
6	75	64	57	52	72	62	56	51	58	53	49	55	50	47	51	47	44	42				42
7	70	59	52	47	67	58	51	46	54	48	45	51	46	43	47	44	41	39				39
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	40	38	36				36
9	62	51	44	40	60	50	43	39	47	41	38	44	39	36	42	38	35	33				33
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31				31

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

	0°	45°	90°
0°	20376	20376	20376
5°	20049	19999	20147
10°	18759	19009	19540
15°	17054	17595	18575
20°	15138	15925	17320
25°	13183	14228	15913
30°	11292	12533	14582
35°	9363	10638	12973
40°	7193	8506	11054
45°	5200	6441	8894
50°	3542	4801	7055
55°	2303	3471	5483
60°	1321	2444	3962
65°	349	1493	2006
70°	173	460	577
75°	76	38	0
80°	57	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.3	5.8
10°-20°	773.2	14.8
20°-30°	967.9	18.5
30°-40°	894.0	17.1
40°-50°	600.7	11.5
50°-60°	310.3	5.9
60°-70°	97.2	1.9
70°-80°	6.2	0.1
80°-90°	1.2	0.0
90°-100°	95.1	1.8
100°-110°	250.1	4.8
110°-120°	259.3	5.0
120°-130°	208.0	4.0
130°-140°	163.2	3.1
140°-150°	125.3	2.4
150°-160°	90.2	1.7
160°-170°	55.2	1.1
170°-180°	18.6	0.4
0°-30°	2043.4	39.2
0°-40°	2937.4	56.3
0°-60°	3848.5	73.8
0°-90°	3953.0	75.8
90°-120°	604.6	11.6
90°-150°	1101.1	21.1
90°-180°	1265.0	24.2
0°-180°	5218.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3247	3214	3239	3251	3263	301
15°	2678	2669	2763	2856	2917	746
25°	1942	1958	2096	2240	2345	891
35°	1247	1278	1417	1584	1728	772
45°	598	634	740	885	1022	470
55°	215	251	324	416	511	200
65°	24	46	103	124	138	41
75°	3	3	2	0	0	5
85°	0	0	0	0	0	0
90°	1	4	10	5	5	1
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3312.8	3312.8	3312.8	3312.8	3312.8
2.5°	3320.5	3289.2	3297.4	3297.2	3288.5
5°	3247.1	3214.2	3239.1	3250.6	3263.1
7.5°	3109.9	3084.2	3132.0	3167.9	3193.9
10°	3003.5	2981.6	3043.6	3092.5	3128.5
12.5°	2880.4	2863.5	2938.4	3005.5	3051.6
15°	2678.1	2668.7	2763.1	2855.8	2917.0
17.5°	2461.5	2461.1	2568.8	2684.0	2757.6
20°	2312.7	2317.4	2432.9	2559.9	2646.1
22.5°	2164.0	2175.0	2298.3	2430.7	2529.4
25°	1942.5	1958.2	2096.4	2239.8	2344.8
27.5°	1729.7	1752.5	1897.9	2047.0	2174.9
30°	1589.9	1616.5	1764.6	1921.4	2053.1
32.5°	1452.7	1484.4	1628.7	1794.6	1928.7
35°	1246.9	1278.3	1416.8	1583.6	1727.7
37.5°	1034.4	1065.1	1200.4	1364.6	1520.3
40°	895.9	930.4	1059.4	1218.5	1376.7
42.5°	770.3	804.7	926.1	1082.3	1231.9
45°	597.8	633.9	740.5	884.6	1022.5
47.5°	454.9	494.0	587.6	718.0	843.7
50°	370.2	409.4	501.7	616.6	737.3
52.5°	302.3	340.2	423.4	531.7	642.4
55°	214.8	250.8	323.7	415.7	511.3
57.5°	148.4	179.4	244.9	321.6	396.5
60°	107.4	137.2	198.7	261.0	322.1
62.5°	71.5	98.7	159.0	206.7	247.8
65°	24.0	46.0	102.6	123.7	137.8
67.5°	12.2	14.7	53.9	56.8	61.5
70°	9.6	9.6	25.6	27.4	32.1
72.5°	7.1	7.1	10.3	13.2	14.1
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°	0.3	0.7	2.0	1.0	1.0
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)