

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: P518389

Luminaire Tested: **SQ4-BB-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518389
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

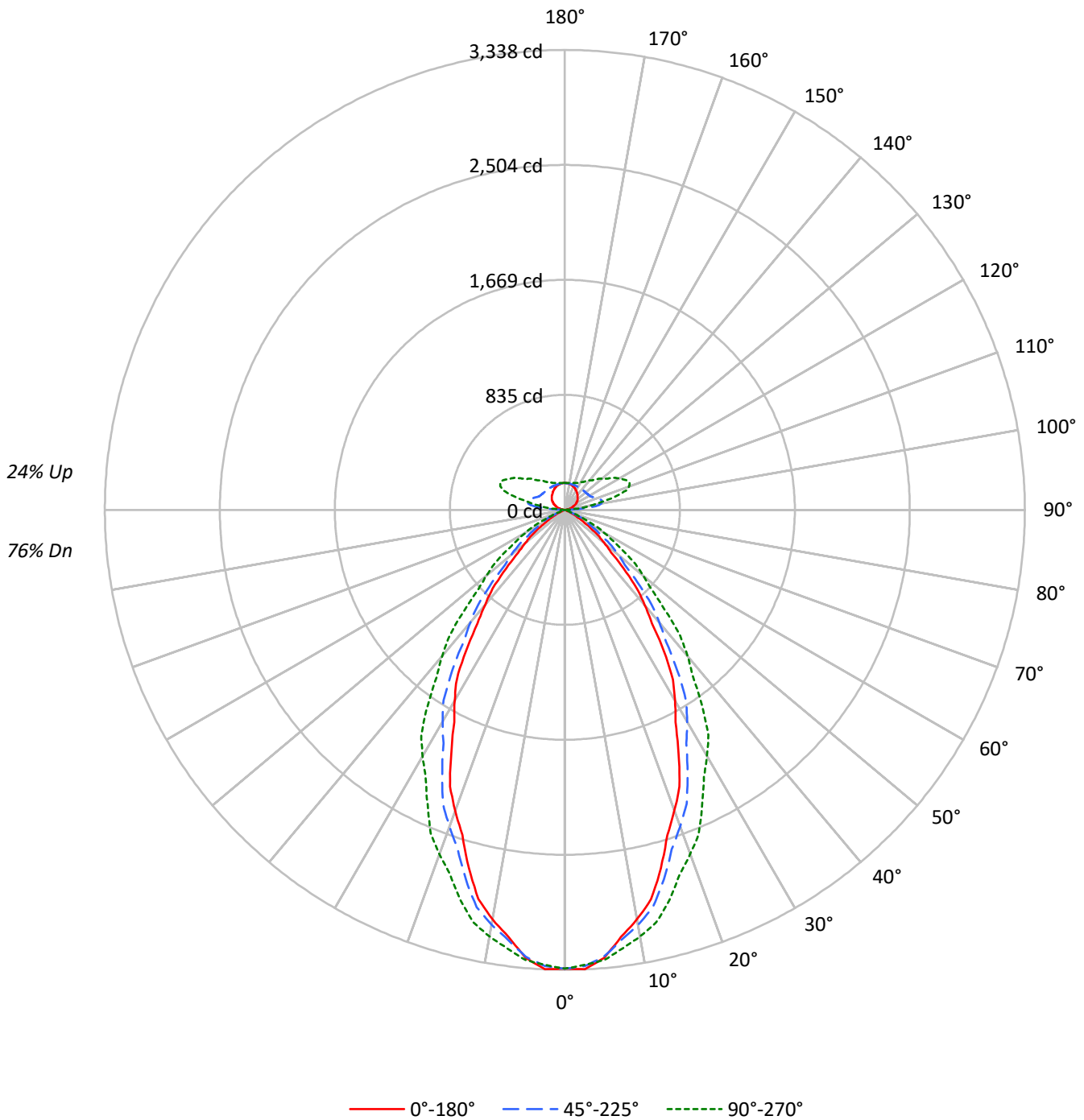
Lumens per Lamp: N/A
Luminaire Lumens: 5232.1 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P518389
CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P518389

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	80	76					76													
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	73	69					69													
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	66	63					63													
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	59	57					57													
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	54	51					51													
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	49	46					46													
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	45	42					42													
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	41	39					39													
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	38	36					36													
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	35	33					33													
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	32	31					31													

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



TEST NUMBER: P518389

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	5.8
10°-20°	777.1	14.9
20°-30°	972.9	18.6
30°-40°	898.6	17.2
40°-50°	603.8	11.5
50°-60°	311.9	6.0
60°-70°	97.7	1.9
70°-80°	6.2	0.1
80°-90°	1.2	0.0
90°-100°	94.7	1.8
100°-110°	248.9	4.8
110°-120°	258.1	4.9
120°-130°	207.0	4.0
130°-140°	162.4	3.1
140°-150°	124.6	2.4
150°-160°	89.8	1.7
160°-170°	54.9	1.0
170°-180°	18.6	0.4
0°-30°	2053.8	39.3
0°-40°	2952.4	56.4
0°-60°	3868.1	73.9
0°-90°	3973.1	75.9
90°-120°	601.6	11.5
90°-150°	1095.7	20.9
90°-180°	1259.0	24.1
0°-180°	5232.1	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°	1	4	10	5	5	1
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



TEST NUMBER: P518389

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-6

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°	0.2	0.7	2.0	1.0	1.0
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



TEST NUMBER: P518389

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)