

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: P519871

Luminaire Tested: **SQ4-F-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519871
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

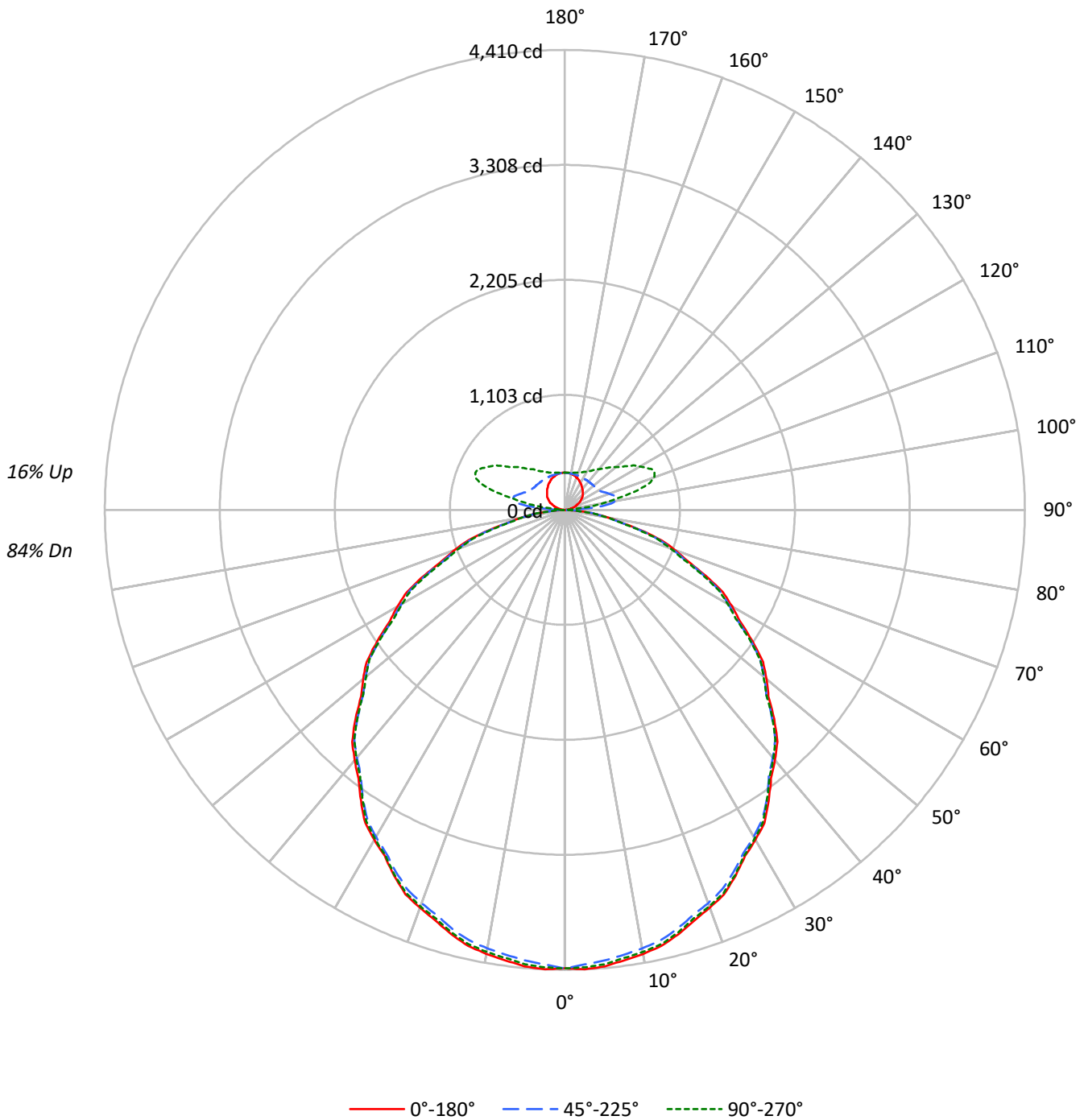
Lumens per Lamp: N/A
Luminaire Lumens: 14302.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 154
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: P519871
CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P519871

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-12

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50				
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43				
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37				
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32				
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28				
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25				
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23				
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12344	12207	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11132	11072
65°	10793	10565	10424
70°	10051	9790	9659
75°	8940	8740	8480
80°	7284	7070	7028
85°	4354	4954	4954



TEST NUMBER: P519871

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	2.9
10°-20°	1181.4	8.3
20°-30°	1774.9	12.4
30°-40°	2117.8	14.8
40°-50°	2170.8	15.2
50°-60°	1934.9	13.5
60°-70°	1440.4	10.1
70°-80°	780.3	5.5
80°-90°	181.1	1.3
90°-100°	173.4	1.2
100°-110°	455.8	3.2
110°-120°	472.7	3.3
120°-130°	379.1	2.7
130°-140°	297.5	2.1
140°-150°	228.3	1.6
150°-160°	164.5	1.1
160°-170°	100.6	0.7
170°-180°	34.0	0.2
0°-30°	3371.1	23.6
0°-40°	5488.9	38.4
0°-60°	9594.5	67.1
0°-90°	11996.3	83.9
90°-120°	1101.9	7.7
90°-150°	2006.8	14.0
90°-180°	2306.0	16.1
0°-180°	14302.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4394	4387	4338	4377	4374	417
15°	4212	4203	4162	4198	4196	1188
25°	3871	3864	3830	3852	3862	1783
35°	3407	3404	3378	3378	3380	2130
45°	2838	2831	2807	2802	2812	2187
55°	2194	2187	2163	2146	2158	1960
65°	1483	1474	1452	1442	1432	1469
75°	752	752	736	721	714	799
85°	123	140	140	143	140	170
90°	2	7	18	9	9	5
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	620	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	



TEST NUMBER: P519871

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4396.3	4396.3	4396.3	4396.3	4396.3
2.5°	4409.8	4402.3	4363.4	4396.1	4390.5
5°	4393.9	4386.8	4338.3	4376.9	4374.5
7.5°	4356.6	4347.6	4303.4	4339.6	4335.3
10°	4323.7	4316.6	4270.5	4306.7	4304.3
12.5°	4283.0	4275.9	4229.8	4266.1	4265.6
15°	4212.4	4203.0	4161.6	4197.8	4195.5
17.5°	4127.8	4116.8	4076.0	4104.6	4109.3
20°	4059.9	4052.9	4014.0	4040.7	4045.5
22.5°	3990.3	3981.3	3940.5	3971.1	3975.8
25°	3871.2	3864.1	3830.1	3852.1	3861.6
27.5°	3740.6	3740.6	3709.2	3724.8	3730.5
30°	3653.5	3653.5	3622.0	3631.9	3641.4
32.5°	3560.6	3553.0	3523.3	3531.3	3540.7
35°	3406.7	3404.3	3377.6	3377.8	3380.1
37.5°	3247.5	3240.8	3211.7	3213.9	3225.2
40°	3133.3	3128.5	3099.4	3099.6	3109.1
42.5°	3017.1	3012.4	2987.1	2983.4	2987.1
45°	2838.2	2831.1	2806.6	2802.1	2811.5
47.5°	2647.4	2649.3	2620.3	2613.7	2618.9
50°	2523.6	2523.6	2494.6	2480.2	2487.3
52.5°	2393.9	2390.1	2361.0	2344.9	2361.5
55°	2194.5	2187.4	2163.0	2146.4	2158.2
57.5°	1990.3	1979.4	1955.0	1936.7	1943.3
60°	1851.0	1834.4	1809.8	1795.4	1800.1
62.5°	1705.8	1696.8	1670.5	1648.4	1658.8
65°	1483.2	1473.8	1451.8	1441.8	1432.4
67.5°	1265.0	1258.8	1234.0	1223.6	1217.5
70°	1117.8	1106.0	1088.8	1076.7	1074.2
72.5°	974.6	960.9	943.6	933.3	927.2
75°	752.4	752.4	735.5	720.8	713.7
77.5°	541.0	542.9	529.0	524.0	520.6
80°	411.3	411.3	399.2	394.5	396.8
82.5°	287.4	293.1	288.9	282.1	278.7
85°	123.4	140.0	140.4	142.7	140.4
87.5°	21.8	36.0	40.6	34.8	31.0
90°	2.3	6.8	18.3	9.1	9.1
92.5°	9.6	46.2	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.1	387.7
102.5°	63.4	113.4	505.4	621.8	526.4
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.2	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.6	912.2

TEST NUMBER: P519871

CATALOG NUMBER: SQ4-F-025U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.2	874.3
120°	175.6	202.4	378.5	709.7	832.4
122.5°	186.6	213.3	373.1	671.4	792.2
125°	202.9	227.5	367.1	620.5	732.1
127.5°	216.2	241.2	362.2	579.5	673.7
130°	223.5	250.2	360.4	553.8	640.8
132.5°	230.7	257.5	358.5	531.7	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.8	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.7
145°	280.5	298.3	351.2	427.2	460.6
147.5°	291.4	308.8	351.2	411.1	438.7
150°	298.7	314.4	351.2	401.8	424.2
152.5°	306.1	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.9	385.9
160°	330.6	337.3	351.2	374.1	378.5
162.5°	336.2	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	364.9	369.4
167.5°	347.6	349.7	353.5	362.7	364.5
170°	351.2	353.5	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	358.9
175°	355.8	355.8	353.5	358.1	358.1
177.5°	355.8	355.8	354.0	357.6	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)