

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: P520280

Luminaire Tested: **SQ4-F-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520280
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

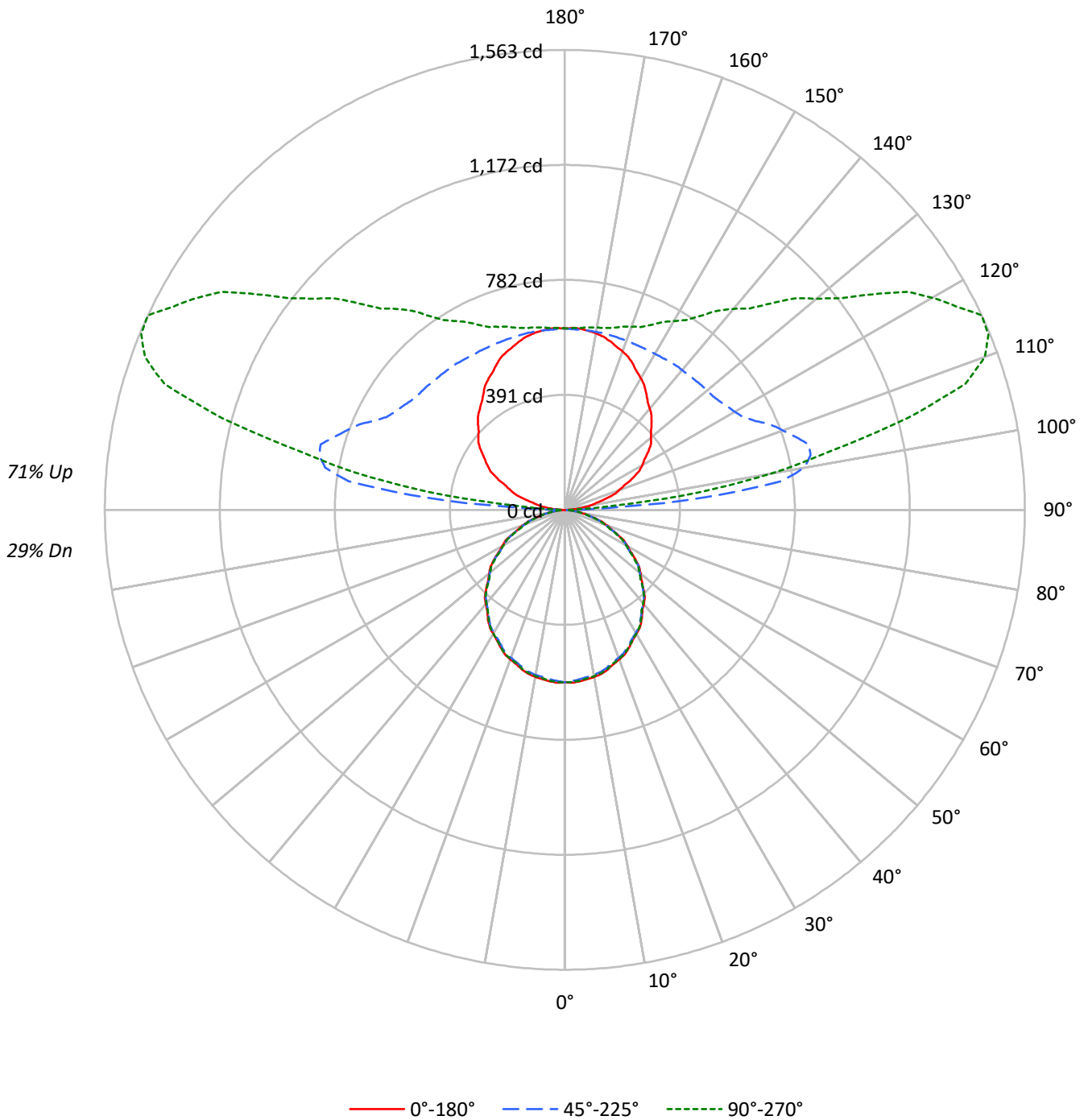
Lumens per Lamp: N/A
Luminaire Lumens: 5579.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5407	5407	5407
5°	5421	5356	5399
10°	5403	5336	5374
15°	5367	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5174
35°	5126	5064	5091
40°	5027	4981	4990
45°	4926	4884	4884
50°	4821	4775	4752
55°	4708	4644	4618
60°	4532	4460	4430
65°	4316	4233	4181
70°	4022	3936	3852
75°	3611	3497	3411
80°	2917	2874	2795
85°	1747	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.0
10°-20°	157.5	2.8
20°-30°	236.5	4.2
30°-40°	282.4	5.1
40°-50°	289.4	5.2
50°-60°	258.1	4.6
60°-70°	192.2	3.4
70°-80°	104.3	1.9
80°-90°	25.6	0.5
90°-100°	288.3	5.2
100°-110°	776.6	13.9
110°-120°	815.0	14.6
120°-130°	661.3	11.9
130°-140°	518.7	9.3
140°-150°	398.2	7.1
150°-160°	286.3	5.1
160°-170°	174.9	3.1
170°-180°	59.0	1.1
0°-30°	449.3	8.1
0°-40°	731.7	13.1
0°-60°	1279.1	22.9
0°-90°	1601.2	28.7
90°-120°	1879.8	33.7
90°-150°	3458.0	62.0
90°-180°	3978.0	71.3
0°-180°	5579.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	585	585	578	584	583	56
15°	562	560	555	560	560	158
25°	516	515	510	513	515	238
35°	455	454	450	450	452	284
45°	378	378	374	374	374	291
55°	293	293	289	286	287	261
65°	198	197	194	192	192	196
75°	101	100	98	96	96	107
85°	16	18	19	20	20	23
90°	2	5	9	10	10	4
95°	44	157	472	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.1	586.1	586.1	586.1	586.1
2.5°	588.0	586.8	581.8	586.1	585.5
5°	585.3	584.6	578.3	583.7	583.0
7.5°	581.1	579.6	573.4	578.7	578.0
10°	576.7	575.2	569.6	574.4	573.6
12.5°	571.0	570.1	564.0	568.8	568.6
15°	561.9	560.3	554.8	559.5	559.5
17.5°	549.5	548.6	543.3	547.9	547.3
20°	541.4	539.9	535.1	539.1	539.1
22.5°	531.4	530.5	525.8	529.0	529.6
25°	516.3	514.7	510.0	513.2	514.7
27.5°	499.6	498.5	494.5	496.6	497.7
30°	486.5	486.5	482.6	483.4	485.7
32.5°	474.6	474.6	470.1	470.8	471.9
35°	455.1	453.6	449.6	449.6	452.0
37.5°	432.5	431.7	429.2	428.7	429.3
40°	417.4	416.7	413.6	414.3	414.3
42.5°	402.4	401.6	398.5	397.4	398.6
45°	377.5	378.2	374.3	373.5	374.3
47.5°	352.8	352.8	349.7	347.5	348.7
50°	335.9	335.9	332.7	331.1	331.1
52.5°	318.3	318.9	315.1	313.0	313.6
55°	292.7	292.7	288.7	286.4	287.1
57.5°	264.5	264.5	260.5	258.1	259.5
60°	245.6	245.6	241.7	239.3	240.1
62.5°	226.8	226.8	222.8	220.5	220.7
65°	197.7	197.0	193.9	191.5	191.5
67.5°	169.8	167.8	165.4	162.3	162.3
70°	149.1	148.3	145.9	142.8	142.8
72.5°	130.3	128.9	126.5	123.9	123.9
75°	101.3	100.5	98.1	96.5	95.7
77.5°	72.5	71.9	71.7	69.5	70.1
80°	54.9	54.9	54.1	52.6	52.6
82.5°	39.2	39.8	38.5	38.2	37.5
85°	16.5	18.0	18.8	19.6	19.6
87.5°	3.5	5.9	6.3	7.1	7.1
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.1	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.5	241.6	167.2
97.5°	70.2	179.5	741.2	619.3	466.9
100°	90.3	188.6	826.7	864.9	717.5
102.5°	109.7	201.3	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.2	1426.6
110°	197.0	264.6	789.0	1443.8	1518.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.6	282.3	756.9	1435.5	1557.8
115°	253.6	310.3	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.2	1498.0
120°	304.6	356.0	666.5	1234.9	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.6
125°	346.2	397.6	642.2	1085.4	1277.2
127.5°	369.2	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	397.0	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.0	832.4	927.6
140°	449.1	493.6	620.2	805.9	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.5	721.3	764.8
150°	516.5	545.0	612.4	704.2	740.2
152.5°	529.1	553.8	611.7	690.2	719.5
155°	547.1	567.2	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.6	673.0
160°	573.1	586.1	611.6	651.0	661.8
162.5°	581.9	592.4	612.2	644.7	652.3
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	612.9	613.2	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	620.9
177.5°	618.8	617.5	614.3	619.4	618.2
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)