

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: P565014

Luminaire Tested: **SQ4-PW1-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565014
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

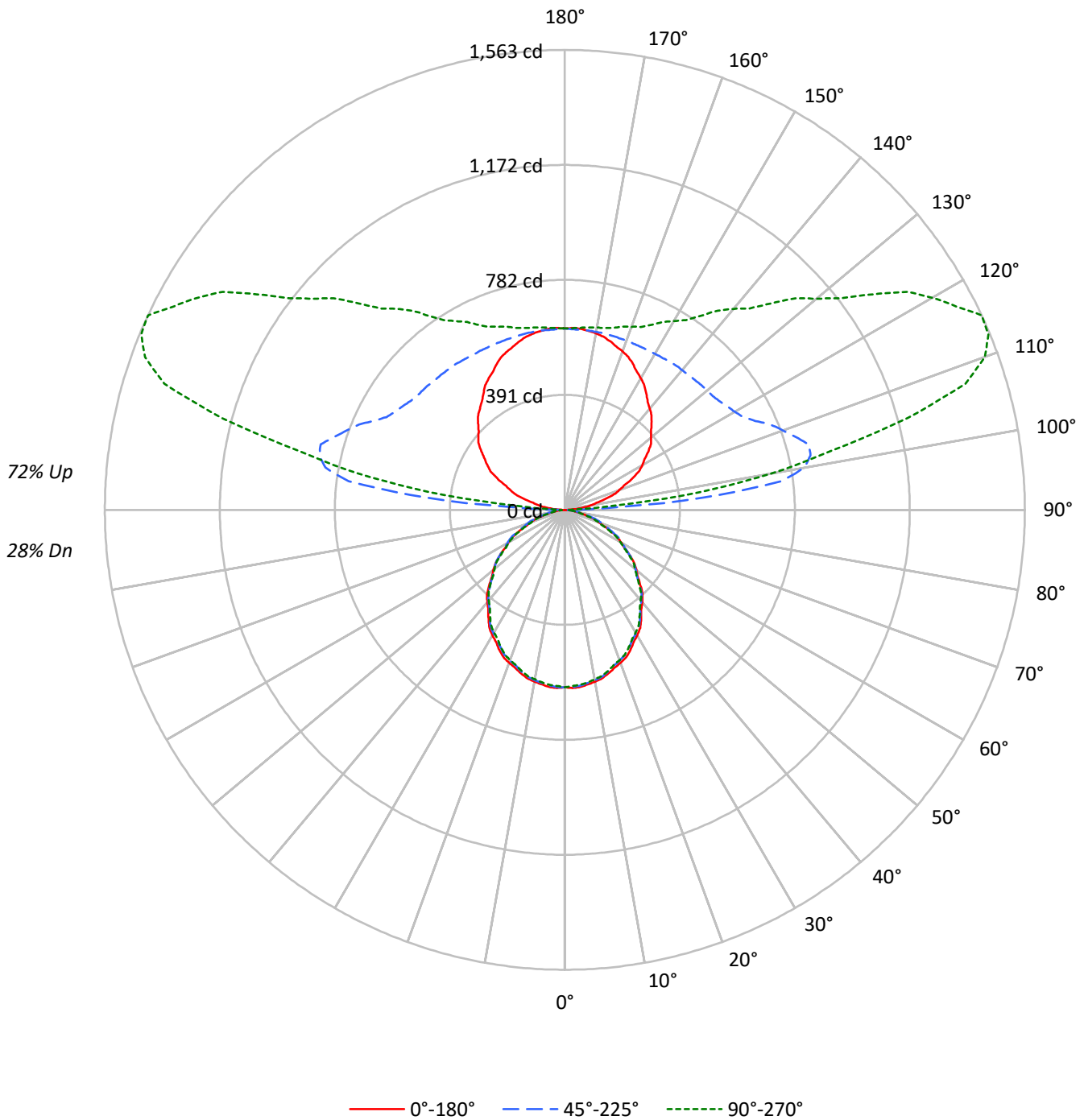
Lumens per Lamp: N/A
Luminaire Lumens: 5513.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	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°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5481
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5129
35°	5092	5021	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4546	4507	4477
55°	4333	4333	4264
60°	4069	4146	4000
65°	3722	3908	3631
70°	3283	3599	3197
75°	2802	3219	2727
80°	2173	2710	2200
85°	1408	2085	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.0
10°-20°	160.3	2.9
20°-30°	237.8	4.3
30°-40°	278.3	5.0
40°-50°	277.0	5.0
50°-60°	239.2	4.3
60°-70°	172.2	3.1
70°-80°	90.3	1.6
80°-90°	23.8	0.4
90°-100°	288.3	5.2
100°-110°	776.6	14.1
110°-120°	815.0	14.8
120°-130°	661.3	12.0
130°-140°	518.7	9.4
140°-150°	398.2	7.2
150°-160°	286.3	5.2
160°-170°	174.9	3.2
170°-180°	59.0	1.1
0°-30°	454.9	8.3
0°-40°	733.2	13.3
0°-60°	1249.4	22.7
0°-90°	1535.7	27.9
90°-120°	1879.8	34.1
90°-150°	3458.0	62.7
90°-180°	3978.0	72.1
0°-180°	5513.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	605	598	600	598	597	57
15°	575	568	569	568	567	162
25°	526	517	516	513	515	242
35°	452	446	446	442	443	283
45°	363	360	359	358	357	280
55°	269	269	269	266	265	240
65°	170	176	179	172	166	169
75°	79	86	90	84	76	84
85°	13	17	20	19	18	18
90°	2	5	9	10	10	4
95°	44	157	473	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°	603.0	603.0	603.0	603.0	603.0
2.5°	606.4	601.4	603.0	601.7	598.8
5°	604.6	597.9	599.8	598.2	597.2
7.5°	598.5	592.2	593.7	592.0	591.3
10°	592.9	586.7	588.1	586.0	585.0
12.5°	586.6	579.9	581.3	579.2	578.6
15°	575.4	568.1	569.0	567.9	566.9
17.5°	562.4	555.1	555.2	553.5	553.3
20°	553.1	545.3	544.6	542.5	543.5
22.5°	542.9	534.7	534.0	531.0	532.5
25°	526.0	517.2	516.4	513.3	514.8
27.5°	506.4	497.7	497.7	493.3	495.0
30°	492.0	483.7	484.5	479.3	481.4
32.5°	476.7	469.2	469.7	464.4	466.5
35°	452.1	445.9	445.8	441.5	443.1
37.5°	427.1	421.6	420.7	418.2	418.7
40°	409.6	405.0	403.3	401.7	401.7
42.5°	391.4	387.1	385.4	384.2	383.8
45°	363.4	360.3	358.6	357.6	357.0
47.5°	335.8	332.9	331.4	330.7	330.1
50°	316.7	314.6	314.0	312.4	311.9
52.5°	297.5	296.3	295.7	293.7	293.2
55°	269.4	268.8	269.4	265.6	265.1
57.5°	240.0	240.9	242.6	237.6	236.3
60°	220.5	222.6	224.7	218.8	216.8
62.5°	200.5	203.8	206.9	200.1	197.2
65°	170.5	175.7	179.0	172.0	166.3
67.5°	141.6	148.1	152.1	144.5	138.0
70°	121.7	128.9	133.4	125.8	118.5
72.5°	104.2	112.3	115.9	108.8	101.5
75°	78.6	85.9	90.3	84.3	76.5
77.5°	55.8	62.6	66.3	61.1	54.6
80°	40.9	48.2	51.0	46.6	41.4
82.5°	29.0	35.0	37.0	34.3	30.8
85°	13.3	17.4	19.7	18.6	17.5
87.5°	3.7	7.2	10.0	10.1	10.5
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	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	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	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	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	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	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
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°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)