

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: P564918

Luminaire Tested: **SQ4-PW1-100U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564918
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

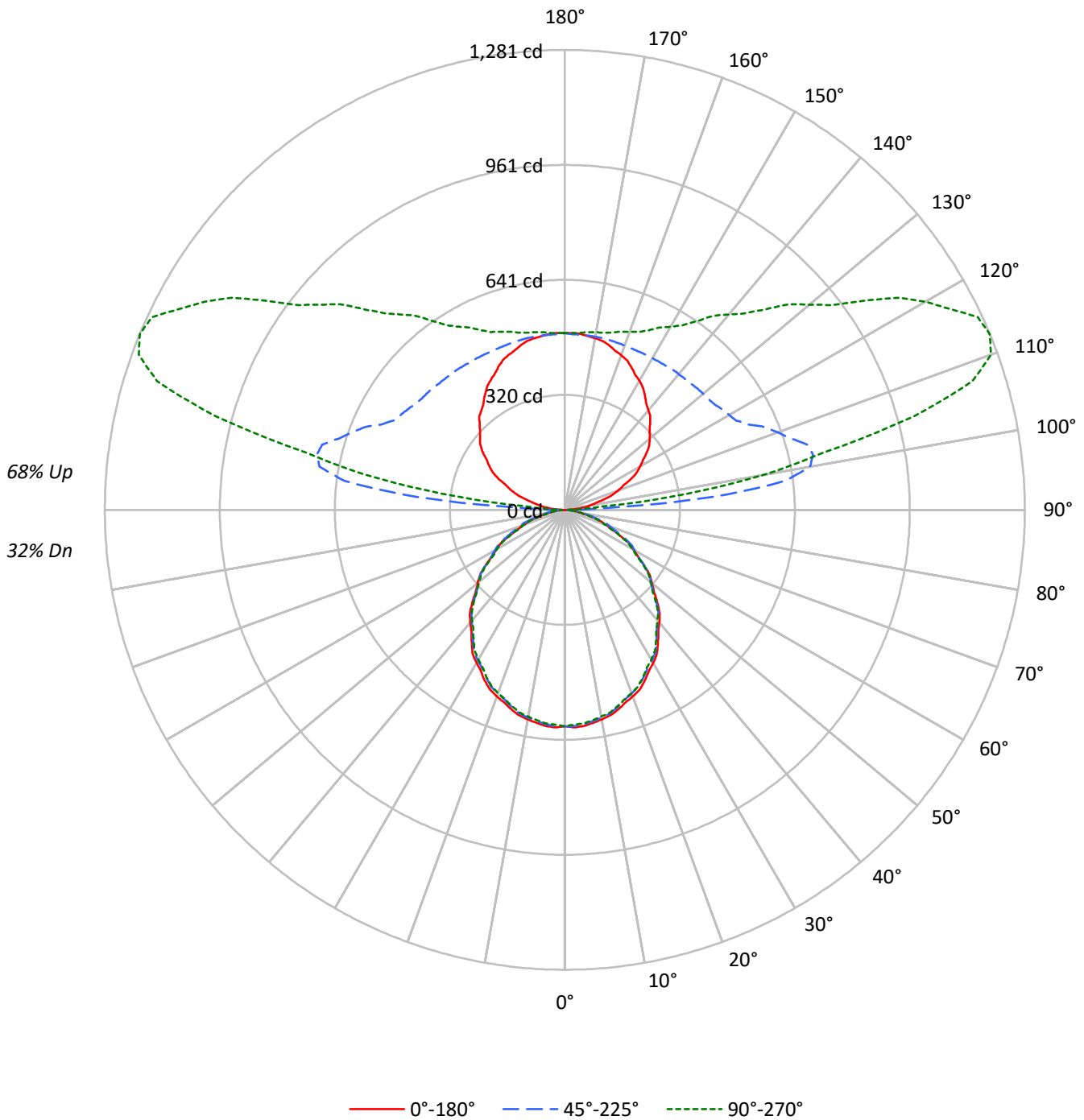
Lumens per Lamp: N/A
Luminaire Lumens: 4731.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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	1.2
10°-20°	160.3	3.4
20°-30°	237.8	5.0
30°-40°	278.3	5.9
40°-50°	277.0	5.9
50°-60°	239.2	5.1
60°-70°	172.2	3.6
70°-80°	90.3	1.9
80°-90°	23.4	0.5
90°-100°	230.4	4.9
100°-110°	635.9	13.4
110°-120°	655.9	13.9
120°-130°	527.0	11.1
130°-140°	414.2	8.8
140°-150°	317.7	6.7
150°-160°	228.3	4.8
160°-170°	139.6	3.0
170°-180°	47.1	1.0
0°-30°	454.9	9.6
0°-40°	733.2	15.5
0°-60°	1249.4	26.4
0°-90°	1535.3	32.4
90°-120°	1522.1	32.2
90°-150°	2781.0	58.8
90°-180°	3196.0	67.6
0°-180°	4731.3	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	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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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	6.9	9.3	9.5	10.1
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)