

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: P564246

Luminaire Tested: **SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564246
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

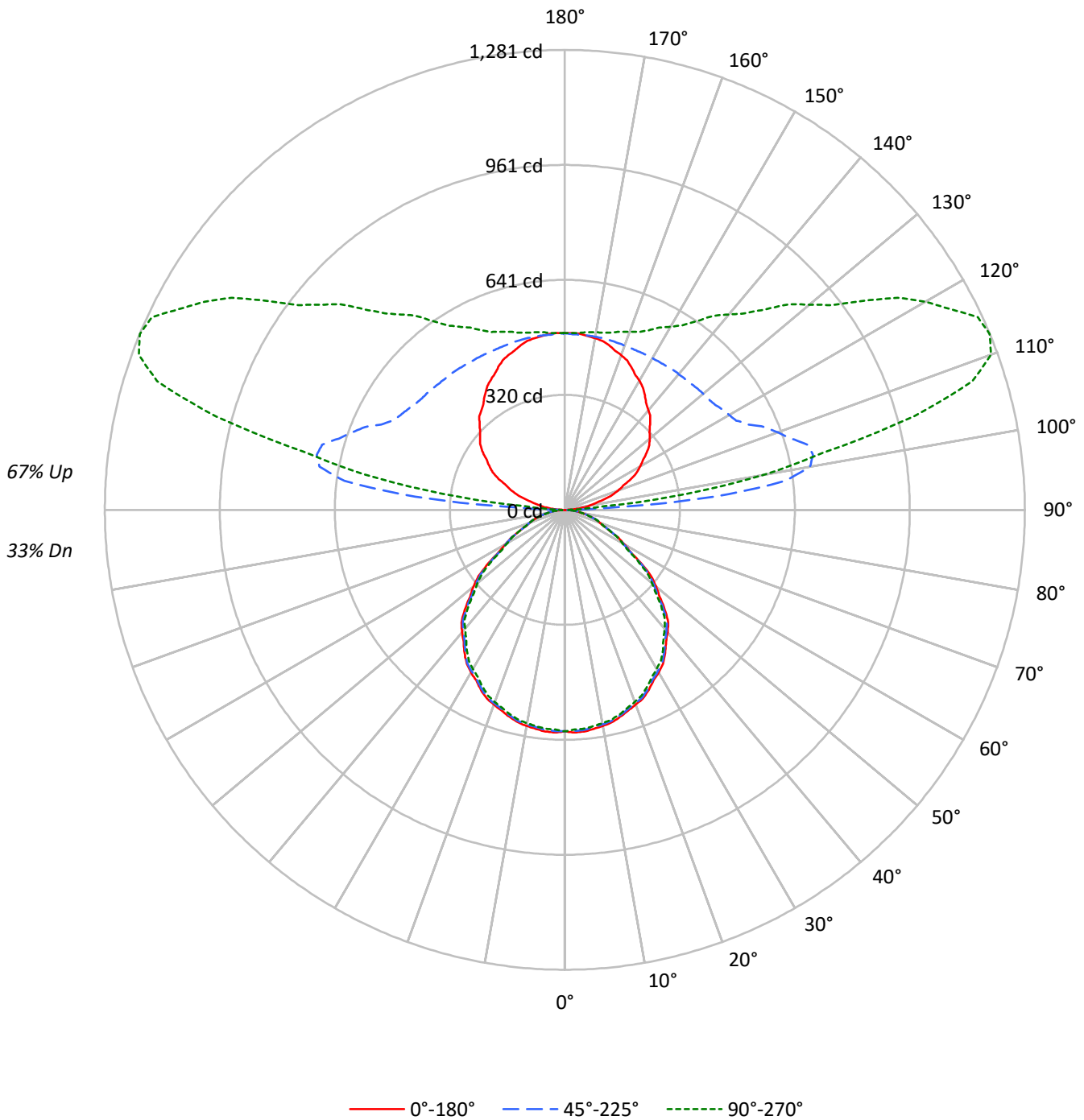
Lumens per Lamp: N/A
Luminaire Lumens: 4739.1 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P564246
CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564246

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4

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	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5663	5633
20°	5670	5634	5593
25°	5631	5593	5528
30°	5570	5530	5450
35°	5487	5439	5361
40°	5362	5304	5209
45°	5143	5053	4949
50°	4758	4645	4553
55°	4153	4060	3975
60°	3500	3471	3403
65°	3028	3039	3015
70°	2781	2795	2795
75°	2670	2670	2688
80°	2513	2540	2513
85°	2022	2255	2255



TEST NUMBER: P564246

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.2
10°-20°	166.9	3.5
20°-30°	251.7	5.3
30°-40°	299.9	6.3
40°-50°	295.7	6.2
50°-60°	226.0	4.8
60°-70°	139.9	3.0
70°-80°	79.4	1.7
80°-90°	25.2	0.5
90°-100°	230.4	4.9
100°-110°	635.9	13.4
110°-120°	655.9	13.8
120°-130°	527.0	11.1
130°-140°	414.2	8.7
140°-150°	317.7	6.7
150°-160°	228.3	4.8
160°-170°	139.6	2.9
170°-180°	47.1	1.0
0°-30°	477.0	10.1
0°-40°	776.9	16.4
0°-60°	1298.6	27.4
0°-90°	1543.1	32.6
90°-120°	1522.1	32.1
90°-150°	2781.0	58.7
90°-180°	3196.0	67.4
0°-180°	4739.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	620	613	615	613	612	59
15°	597	590	593	591	590	168
25°	553	546	549	544	543	255
35°	487	482	483	477	476	304
45°	394	389	387	380	379	302
55°	258	254	252	248	247	231
65°	139	138	139	138	138	140
75°	75	75	75	75	75	79
85°	19	20	21	21	21	22
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	

TEST NUMBER: P564246

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	620.7	615.3	616.8	615.5	612.6
5°	620.0	613.3	615.2	613.1	612.1
7.5°	615.2	608.6	610.6	608.4	607.8
10°	611.0	604.8	606.7	604.6	603.6
12.5°	606.3	599.7	602.1	599.5	598.5
15°	596.6	590.4	592.9	590.8	589.7
17.5°	586.0	579.4	581.9	579.4	578.1
20°	577.5	571.3	573.8	570.1	569.6
22.5°	568.2	561.9	564.5	559.5	559.3
25°	553.1	546.3	549.4	543.5	543.0
27.5°	535.1	528.9	531.4	525.4	524.8
30°	522.8	516.6	519.1	512.7	511.6
32.5°	508.8	503.0	505.1	498.7	498.0
35°	487.2	481.5	482.9	476.6	476.0
37.5°	462.7	457.5	458.3	451.3	450.8
40°	445.2	440.0	440.4	433.0	432.5
42.5°	426.1	420.9	420.5	413.0	412.5
45°	394.2	389.0	387.3	380.4	379.3
47.5°	357.9	352.7	349.5	343.8	343.1
50°	331.5	326.3	323.6	318.7	317.2
52.5°	303.1	297.9	295.5	291.1	289.6
55°	258.2	254.1	252.4	248.1	247.1
57.5°	215.6	212.8	212.3	208.2	207.7
60°	189.7	188.1	188.1	184.4	184.4
62.5°	167.6	166.4	167.3	164.8	164.4
65°	138.7	137.6	139.2	138.1	138.1
67.5°	115.8	115.8	116.8	116.4	116.4
70°	103.1	103.1	103.6	103.6	103.6
72.5°	91.6	91.2	92.6	92.5	92.1
75°	74.9	74.9	74.9	75.4	75.4
77.5°	58.3	58.4	58.9	58.8	58.3
80°	47.3	47.8	47.8	47.3	47.3
82.5°	36.2	36.8	36.8	36.7	36.2
85°	19.1	20.2	21.3	21.3	21.3
87.5°	5.8	7.8	9.8	9.9	9.6
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



TEST NUMBER: P564246

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-4

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)