

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: P562902

Luminaire Tested: **SQ4-PC3-100U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562902
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

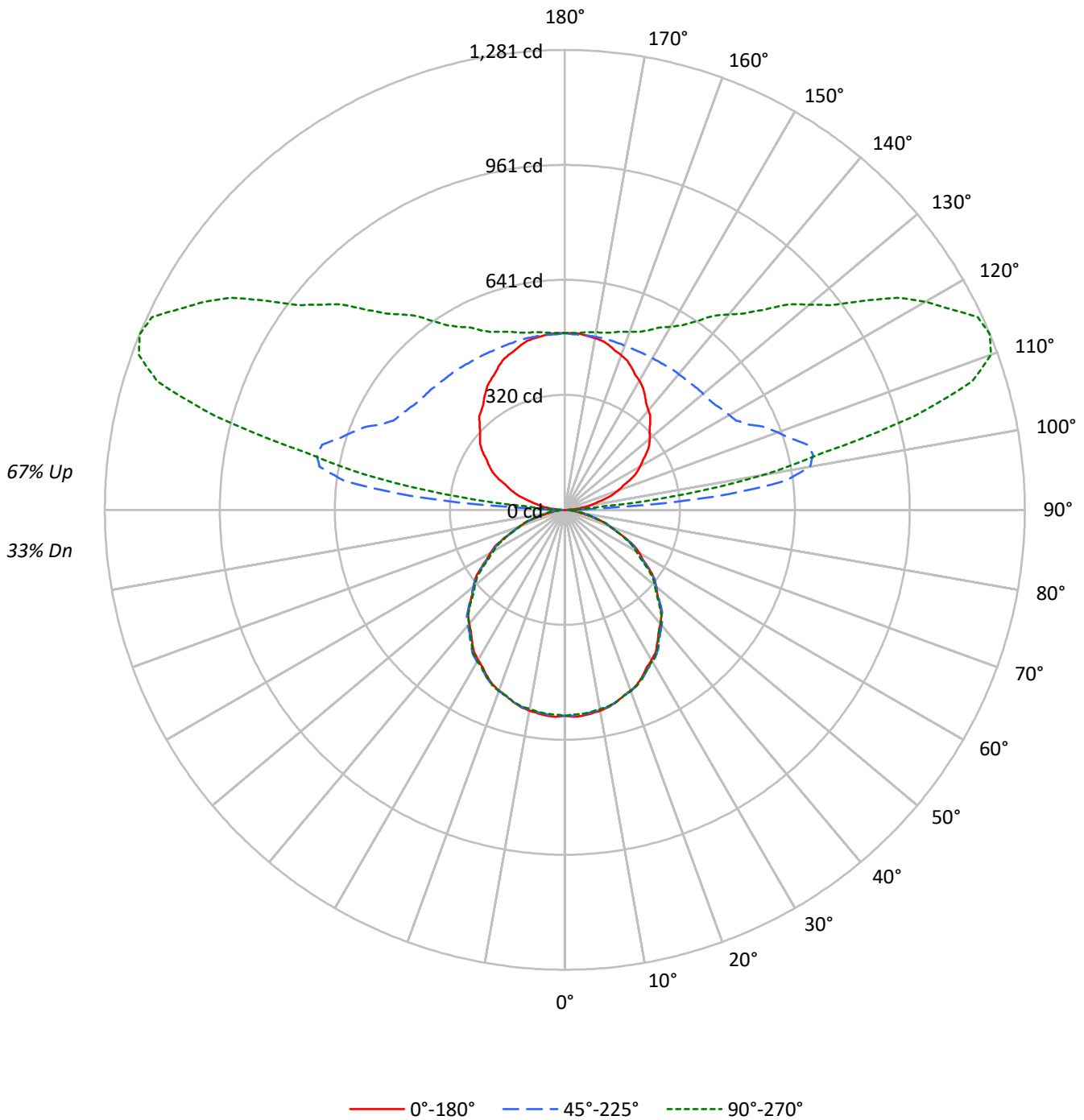
Lumens per Lamp: N/A
Luminaire Lumens: 4763.1 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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: P562902
CATALOG NUMBER: SQ4-PC3-100U-050D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P562902

CATALOG NUMBER: SQ4-PC3-100U-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	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	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	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5273	5273
25°	5208	5247	5230
30°	5146	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4767	4767	4689
55°	4615	4555	4486
60°	4392	4303	4235
65°	4061	3978	3943
70°	3555	3582	3569
75°	2859	3162	3183
80°	2035	2683	2710
85°	1239	2255	2255



TEST NUMBER: P562902

CATALOG NUMBER: SQ4-PC3-100U-050D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.1
10°-20°	155.8	3.3
20°-30°	236.0	5.0
30°-40°	282.9	5.9
40°-50°	288.5	6.1
50°-60°	251.8	5.3
60°-70°	180.3	3.8
70°-80°	92.9	1.9
80°-90°	24.5	0.5
90°-100°	230.4	4.8
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°	446.1	9.4
0°-40°	729.1	15.3
0°-60°	1269.4	26.7
0°-90°	1567.1	32.9
90°-120°	1522.1	32.0
90°-150°	2781.0	58.4
90°-180°	3196.0	67.1
0°-180°	4763.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	576	570	572	571	570	55
15°	554	550	554	554	554	156
25°	512	508	515	514	514	235
35°	450	449	457	454	454	281
45°	375	374	378	373	372	289
55°	287	283	283	279	279	256
65°	186	182	182	181	181	184
75°	80	84	89	89	89	87
85°	12	18	21	22	21	16
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: P562902

CATALOG NUMBER: SQ4-PC3-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.8	573.8	573.8	573.8	573.8
2.5°	577.2	572.2	573.8	572.5	570.4
5°	575.9	570.2	572.2	570.6	570.1
7.5°	571.8	566.1	568.7	567.6	567.1
10°	568.0	562.2	565.3	564.2	563.7
12.5°	562.9	557.6	561.1	560.0	559.9
15°	554.1	549.5	554.1	554.1	553.6
17.5°	543.2	538.9	543.9	544.3	543.9
20°	535.5	530.9	537.1	536.6	537.1
22.5°	526.2	522.4	529.1	527.7	528.2
25°	511.6	508.0	515.4	513.8	513.8
27.5°	494.4	491.8	499.8	498.1	498.1
30°	483.0	480.4	488.8	486.7	486.7
32.5°	470.2	468.4	476.5	473.9	473.9
35°	450.0	449.0	456.9	453.7	453.7
37.5°	429.2	428.2	435.5	431.6	430.4
40°	413.9	413.4	419.7	415.5	415.5
42.5°	398.6	398.1	403.6	398.5	398.5
45°	375.1	374.1	377.8	372.9	371.9
47.5°	349.5	348.4	350.8	345.5	345.0
50°	332.1	331.0	332.1	327.3	326.7
52.5°	314.2	312.3	312.5	307.7	307.6
55°	286.9	283.3	283.2	278.9	278.9
57.5°	258.0	253.2	253.6	250.0	249.5
60°	238.0	232.8	233.2	230.0	229.5
62.5°	218.5	212.4	213.7	210.1	210.0
65°	186.0	181.8	182.2	180.6	180.6
67.5°	154.7	150.9	153.7	152.4	152.3
70°	131.8	129.2	132.8	132.8	132.3
72.5°	110.5	110.4	115.0	115.0	115.3
75°	80.2	83.9	88.7	89.3	89.3
77.5°	53.6	60.0	65.3	65.6	65.5
80°	38.3	45.5	50.5	51.5	51.0
82.5°	25.9	33.6	37.7	38.8	38.3
85°	11.7	17.9	21.3	21.8	21.3
87.5°	3.7	7.8	9.8	9.9	9.2
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: P562902

CATALOG NUMBER: SQ4-PC3-100U-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)