

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: P562906

Luminaire Tested: **SQ4-PC3-100U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562906
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

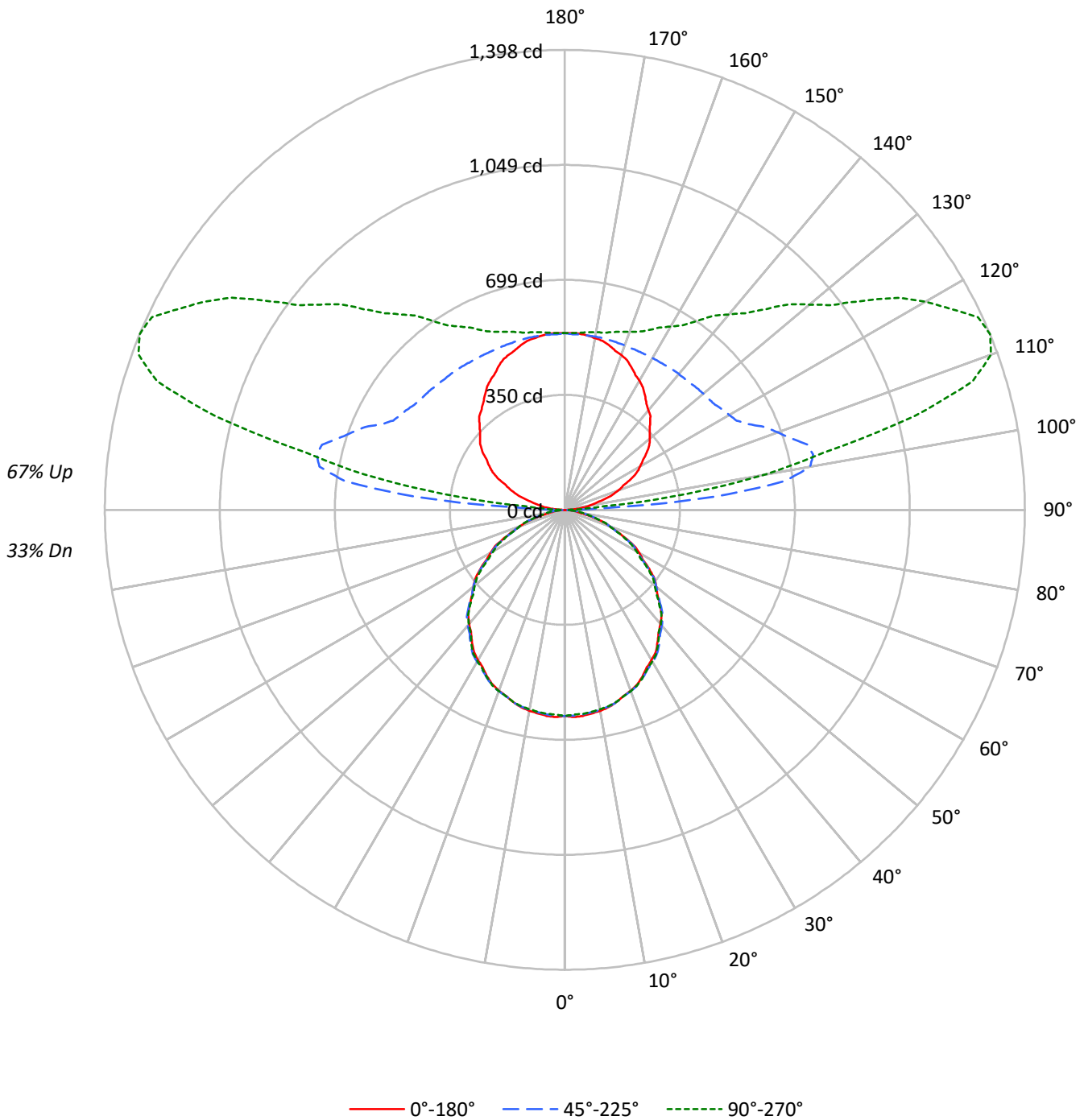
Lumens per Lamp: N/A
Luminaire Lumens: 5200.8 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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: P562906
CATALOG NUMBER: SQ4-PC3-100U-050D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P562906

CATALOG NUMBER: SQ4-PC3-100U-050D-935-1D-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°	5780	5780	5780
5°	5825	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5742	5758	5758
25°	5688	5728	5711
30°	5618	5686	5661
35°	5535	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5040	4974	4900
60°	4796	4700	4624
65°	4432	4344	4305
70°	3882	3911	3898
75°	3123	3454	3476
80°	2221	2928	2959
85°	1355	2456	2456



TEST NUMBER: P562906

CATALOG NUMBER: SQ4-PC3-100U-050D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.1
10°-20°	170.2	3.3
20°-30°	257.7	5.0
30°-40°	308.9	5.9
40°-50°	315.0	6.1
50°-60°	275.0	5.3
60°-70°	196.9	3.8
70°-80°	101.4	1.9
80°-90°	26.8	0.5
90°-100°	251.5	4.8
100°-110°	694.4	13.4
110°-120°	716.1	13.8
120°-130°	575.5	11.1
130°-140°	452.3	8.7
140°-150°	346.9	6.7
150°-160°	249.3	4.8
160°-170°	152.5	2.9
170°-180°	51.4	1.0
0°-30°	487.1	9.4
0°-40°	796.1	15.3
0°-60°	1386.1	26.7
0°-90°	1711.1	32.9
90°-120°	1662.0	32.0
90°-150°	3036.6	58.4
90°-180°	3490.0	67.1
0°-180°	5200.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	629	623	625	623	622	60
15°	605	600	605	605	604	171
25°	559	555	563	561	561	257
35°	491	490	499	495	495	307
45°	410	408	412	407	406	315
55°	313	309	309	305	305	279
65°	203	198	199	197	197	201
75°	88	92	97	98	98	95
85°	13	20	23	24	23	17
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

TEST NUMBER: P562906

CATALOG NUMBER: SQ4-PC3-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.5	626.5	626.5	626.5	626.5
2.5°	630.3	624.8	626.5	625.1	622.8
5°	628.9	622.6	624.8	623.0	622.5
7.5°	624.3	618.1	621.0	619.8	619.2
10°	620.2	613.9	617.3	616.1	615.5
12.5°	614.6	608.8	612.6	611.5	611.3
15°	605.1	600.0	605.1	605.1	604.5
17.5°	593.1	588.5	593.9	594.3	593.9
20°	584.8	579.7	586.5	585.9	586.5
22.5°	574.6	570.4	577.7	576.2	576.8
25°	558.7	554.7	562.7	561.0	561.0
27.5°	539.9	537.0	545.8	543.9	543.9
30°	527.3	524.5	533.7	531.4	531.4
32.5°	513.4	511.5	520.3	517.5	517.5
35°	491.4	490.2	498.9	495.4	495.4
37.5°	468.6	467.6	475.5	471.3	469.9
40°	451.9	451.4	458.3	453.7	453.7
42.5°	435.2	434.6	440.7	435.1	435.1
45°	409.6	408.4	412.5	407.2	406.1
47.5°	381.6	380.5	383.0	377.3	376.7
50°	362.6	361.4	362.6	357.3	356.8
52.5°	343.1	341.0	341.2	336.0	335.9
55°	313.3	309.3	309.2	304.6	304.6
57.5°	281.7	276.5	277.0	273.0	272.4
60°	259.9	254.2	254.7	251.2	250.6
62.5°	238.5	232.0	233.3	229.4	229.3
65°	203.0	198.5	199.0	197.2	197.2
67.5°	168.9	164.7	167.8	166.4	166.3
70°	143.9	141.0	145.0	145.0	144.5
72.5°	120.7	120.6	125.5	125.5	125.9
75°	87.6	91.6	96.9	97.5	97.5
77.5°	58.5	65.5	71.4	71.6	71.5
80°	41.8	49.7	55.1	56.3	55.7
82.5°	28.3	36.7	41.2	42.3	41.8
85°	12.8	19.6	23.2	23.8	23.2
87.5°	4.1	8.5	10.7	10.8	10.1
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



TEST NUMBER: P562906

CATALOG NUMBER: SQ4-PC3-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)