

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: P562522

Luminaire Tested: **SQ4-PC3-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562522  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

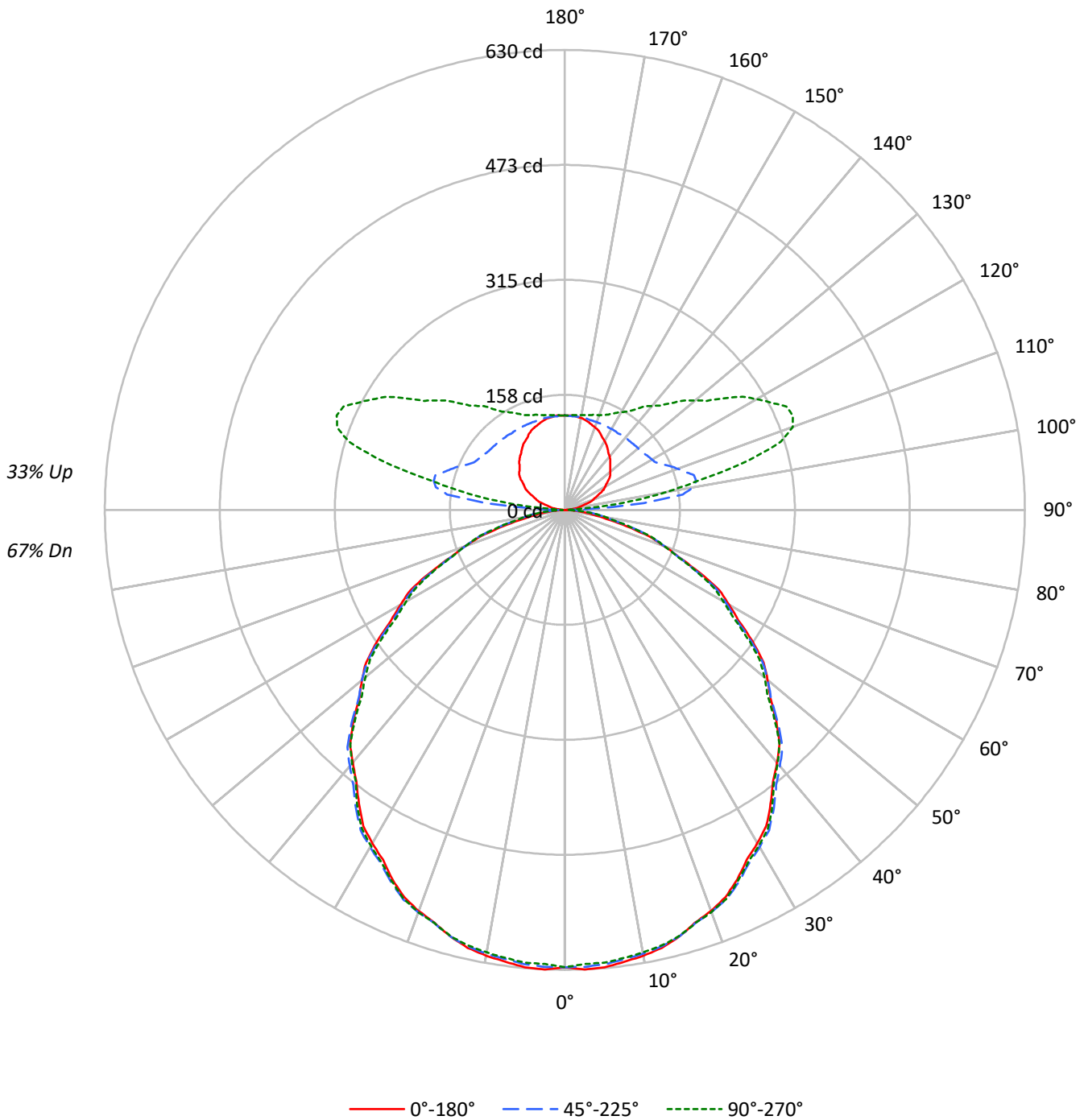
Lumens per Lamp: N/A  
Luminaire Lumens: 2549.9 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.1  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	2.3
10°-20°	170.2	6.7
20°-30°	257.7	10.1
30°-40°	308.9	12.1
40°-50°	315.0	12.4
50°-60°	275.0	10.8
60°-70°	196.9	7.7
70°-80°	101.4	4.0
80°-90°	26.3	1.0
90°-100°	63.1	2.5
100°-110°	165.9	6.5
110°-120°	172.0	6.7
120°-130°	138.0	5.4
130°-140°	108.3	4.2
140°-150°	83.1	3.3
150°-160°	59.9	2.3
160°-170°	36.6	1.4
170°-180°	12.4	0.5
0°-30°	487.1	19.1
0°-40°	796.1	31.2
0°-60°	1386.1	54.4
0°-90°	1710.7	67.1
90°-120°	401.1	15.7
90°-150°	730.4	28.6
90°-180°	839.0	32.9
0°-180°	2549.9	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°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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**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°	3.9	8.3	10.6	9.9	9.0
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)