

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

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PP3-025U-050D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

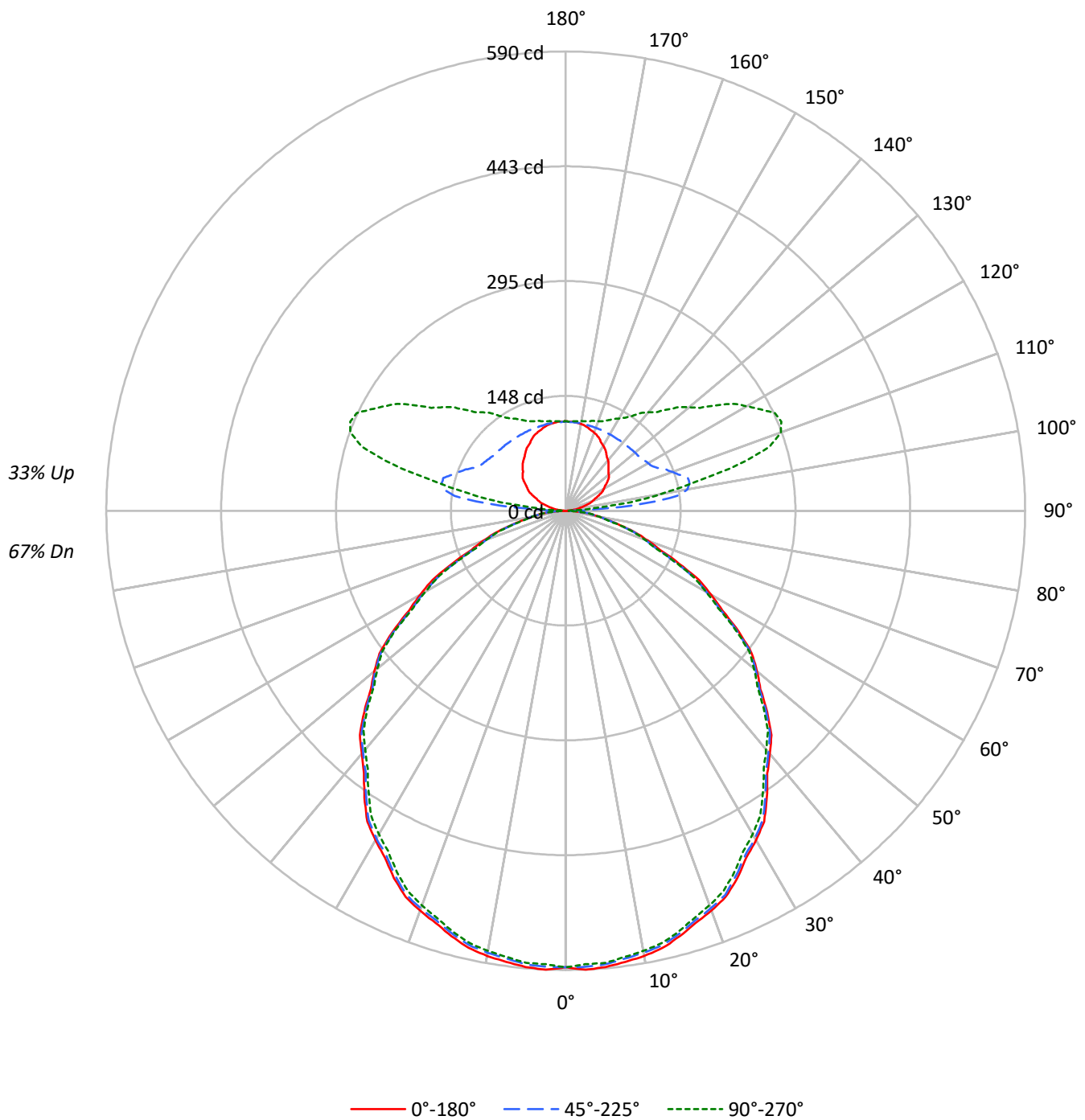
Lumens per Lamp: N/A
Luminaire Lumens: 2245.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5411	5411	5411
5°	5450	5417	5398
10°	5441	5403	5378
15°	5405	5376	5346
20°	5370	5339	5299
25°	5306	5269	5217
30°	5207	5180	5115
35°	5072	5037	4973
40°	4909	4878	4822
45°	4776	4742	4695
50°	4603	4574	4530
55°	4366	4308	4274
60°	3975	3860	3842
65°	3502	3355	3345
70°	3024	2897	2897
75°	2602	2567	2527
80°	2295	2322	2269
85°	1800	1958	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	2.5
10°-20°	158.3	7.1
20°-30°	237.2	10.6
30°-40°	278.2	12.4
40°-50°	279.1	12.4
50°-60°	238.1	10.6
60°-70°	155.3	6.9
70°-80°	77.9	3.5
80°-90°	22.2	1.0
90°-100°	55.9	2.5
100°-110°	147.0	6.5
110°-120°	152.5	6.8
120°-130°	122.3	5.4
130°-140°	95.9	4.3
140°-150°	73.6	3.3
150°-160°	53.0	2.4
160°-170°	32.5	1.4
170°-180°	11.0	0.5
0°-30°	451.0	20.1
0°-40°	729.2	32.5
0°-60°	1246.3	55.5
0°-90°	1501.7	66.9
90°-120°	355.4	15.8
90°-150°	647.3	28.8
90°-180°	744.0	33.1
0°-180°	2245.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	588	583	585	583	583	56
15°	566	560	563	561	560	160
25°	521	515	518	513	512	240
35°	450	446	447	442	442	281
45°	366	364	363	360	360	282
55°	271	270	268	266	266	241
65°	160	157	154	153	153	160
75°	73	73	72	71	71	79
85°	17	18	18	18	18	20
90°	1	2	6	3	3	1
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.5	586.5	586.5	586.5	586.5
2.5°	590.2	585.4	586.5	585.6	583.2
5°	588.5	583.0	584.9	582.9	582.9
7.5°	584.5	578.5	580.4	578.4	578.3
10°	580.8	574.8	576.7	574.6	574.1
12.5°	575.5	569.4	571.8	569.3	569.2
15°	565.9	560.4	562.8	560.8	559.7
17.5°	555.1	549.1	552.0	549.2	548.7
20°	546.9	540.9	543.8	539.7	539.7
22.5°	537.0	531.0	534.4	529.0	529.0
25°	521.2	515.2	517.6	513.0	512.5
27.5°	502.4	496.5	499.0	493.7	493.6
30°	488.8	483.3	486.2	480.6	480.1
32.5°	474.0	468.9	471.0	465.4	464.9
35°	450.3	445.7	447.2	442.0	441.5
37.5°	425.3	420.7	422.3	417.9	417.7
40°	407.6	404.6	405.0	401.4	400.4
42.5°	391.2	387.7	388.2	384.6	384.4
45°	366.0	363.5	363.4	359.8	359.8
47.5°	339.2	337.3	336.8	333.8	333.7
50°	320.7	319.2	318.7	316.1	315.6
52.5°	301.4	300.7	298.9	296.8	296.7
55°	271.4	270.4	267.8	266.2	265.7
57.5°	238.8	236.8	233.9	231.6	232.0
60°	215.4	213.4	209.2	208.2	208.2
62.5°	192.8	190.3	186.2	184.8	185.6
65°	160.4	157.4	153.7	152.7	153.2
67.5°	131.0	128.3	124.3	124.3	123.9
70°	112.1	110.5	107.4	107.4	107.4
72.5°	95.2	94.5	92.2	92.2	91.8
75°	73.0	73.0	72.0	71.4	70.9
77.5°	54.7	54.9	54.4	53.8	52.9
80°	43.2	44.2	43.7	43.2	42.7
82.5°	32.5	33.5	33.4	32.5	32.4
85°	17.0	18.5	18.5	18.5	18.5
87.5°	4.7	6.6	7.8	7.2	7.6
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)