

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-PP3-075U-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

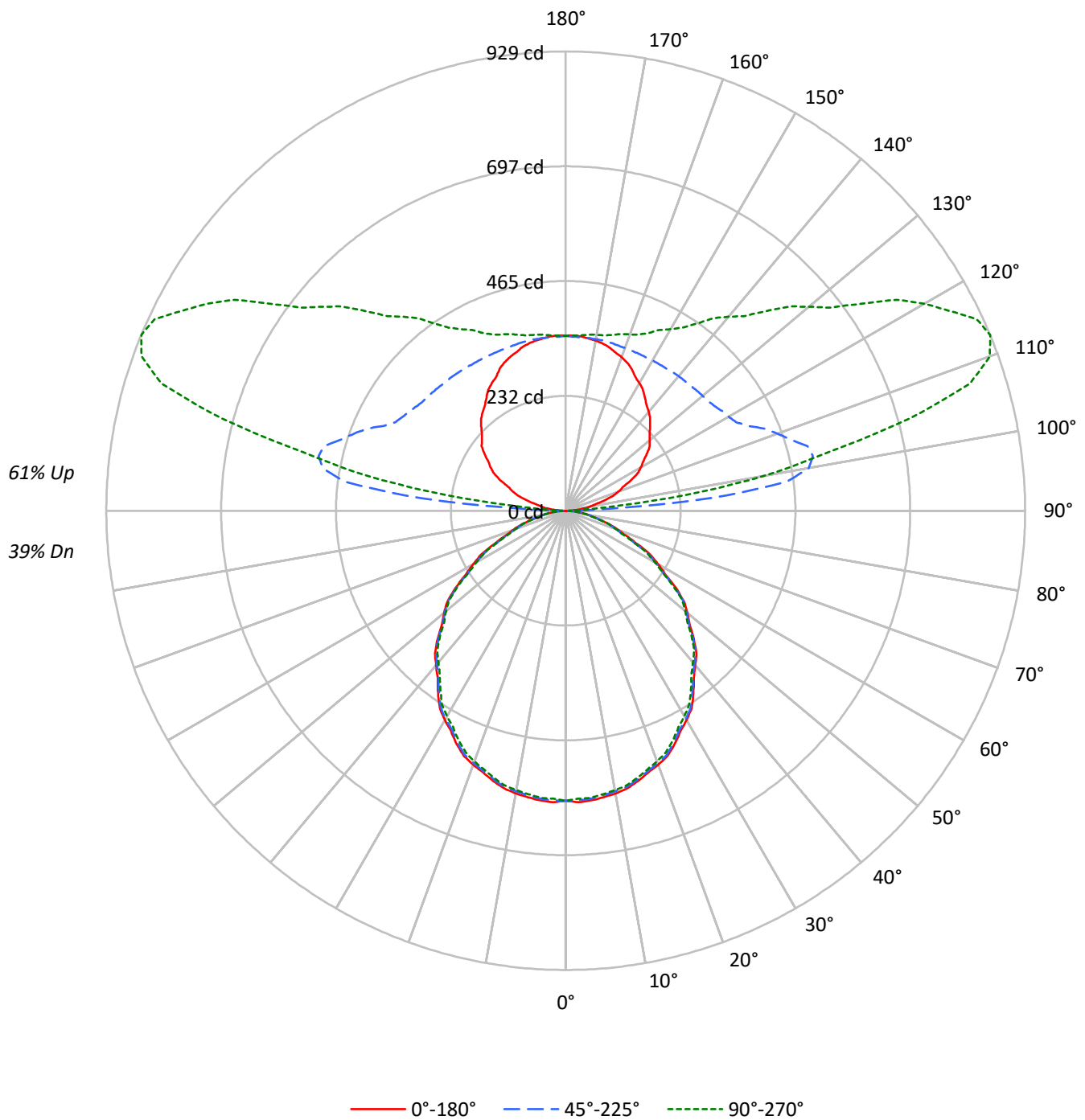
Lumens per Lamp: N/A
Luminaire Lumens: 3807.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12

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	1.5
10°-20°	158.3	4.2
20°-30°	237.2	6.2
30°-40°	278.2	7.3
40°-50°	279.1	7.3
50°-60°	238.1	6.3
60°-70°	155.3	4.1
70°-80°	77.9	2.0
80°-90°	22.5	0.6
90°-100°	166.9	4.4
100°-110°	459.2	12.1
110°-120°	473.9	12.4
120°-130°	379.7	10.0
130°-140°	298.2	7.8
140°-150°	228.6	6.0
150°-160°	164.3	4.3
160°-170°	100.5	2.6
170°-180°	33.9	0.9
0°-30°	451.0	11.8
0°-40°	729.2	19.2
0°-60°	1246.3	32.7
0°-90°	1502.0	39.5
90°-120°	1100.0	28.9
90°-150°	2006.5	52.7
90°-180°	2305.0	60.5
0°-180°	3807.2	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	3	5	7	7	2
95°	25	91	295	126	81	26
105°	82	126	506	770	719	87
115°	145	177	406	808	917	143
125°	200	228	368	623	730	179
135°	242	268	358	504	570	186
145°	279	298	352	429	462	175
155°	316	326	350	386	397	145
165°	342	346	352	366	368	96
175°	354	355	352	357	356	34
180°	354	354	354	354	354	

TEST NUMBER:

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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	6.7	7.6	7.9	8.3
90°	0.8	3.0	5.3	6.8	6.8
92.5°	10.4	44.4	76.9	29.5	24.2
95°	24.8	91.1	295.1	126.2	80.6
97.5°	40.5	101.0	450.4	347.0	244.8
100°	51.9	107.2	499.2	503.8	411.1
102.5°	62.8	114.5	511.8	625.1	540.0
105°	82.1	126.2	505.9	770.5	719.0
107.5°	100.4	140.8	477.2	841.8	857.1
110°	113.7	150.5	455.5	859.5	912.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	161.4	433.8	848.1	928.8
115°	145.3	177.0	405.8	808.1	917.0
117.5°	164.0	193.1	388.0	751.9	875.1
120°	175.4	203.4	380.2	709.8	837.2
122.5°	185.7	213.6	374.8	673.0	793.8
125°	200.3	228.2	368.2	622.8	729.5
127.5°	214.1	240.8	363.8	580.9	674.6
130°	221.3	248.6	361.4	556.1	641.5
132.5°	229.8	257.0	359.6	534.2	611.3
135°	241.7	268.2	357.6	503.7	569.9
137.5°	252.8	277.4	356.0	479.0	533.6
140°	261.2	284.1	355.4	462.6	512.0
142.5°	268.5	289.5	354.2	448.0	490.3
145°	279.3	298.5	352.3	429.1	462.3
147.5°	290.9	307.4	351.4	412.4	438.9
150°	298.1	312.9	350.8	403.3	423.9
152.5°	304.8	318.3	350.2	395.3	412.4
155°	316.2	326.5	350.1	385.7	396.8
157.5°	324.5	332.9	350.1	377.8	385.5
160°	330.5	337.1	350.1	373.6	379.5
162.5°	335.3	340.8	350.7	369.9	374.6
165°	341.8	346.2	351.6	365.9	368.2
167.5°	346.3	349.7	352.3	362.6	363.2
170°	349.3	351.5	352.3	361.4	361.4
172.5°	351.7	352.8	352.3	359.6	359.0
175°	353.9	354.6	352.3	356.8	356.1
177.5°	354.5	354.5	352.0	355.6	354.5
180°	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)