

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-PP3-125U-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 (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

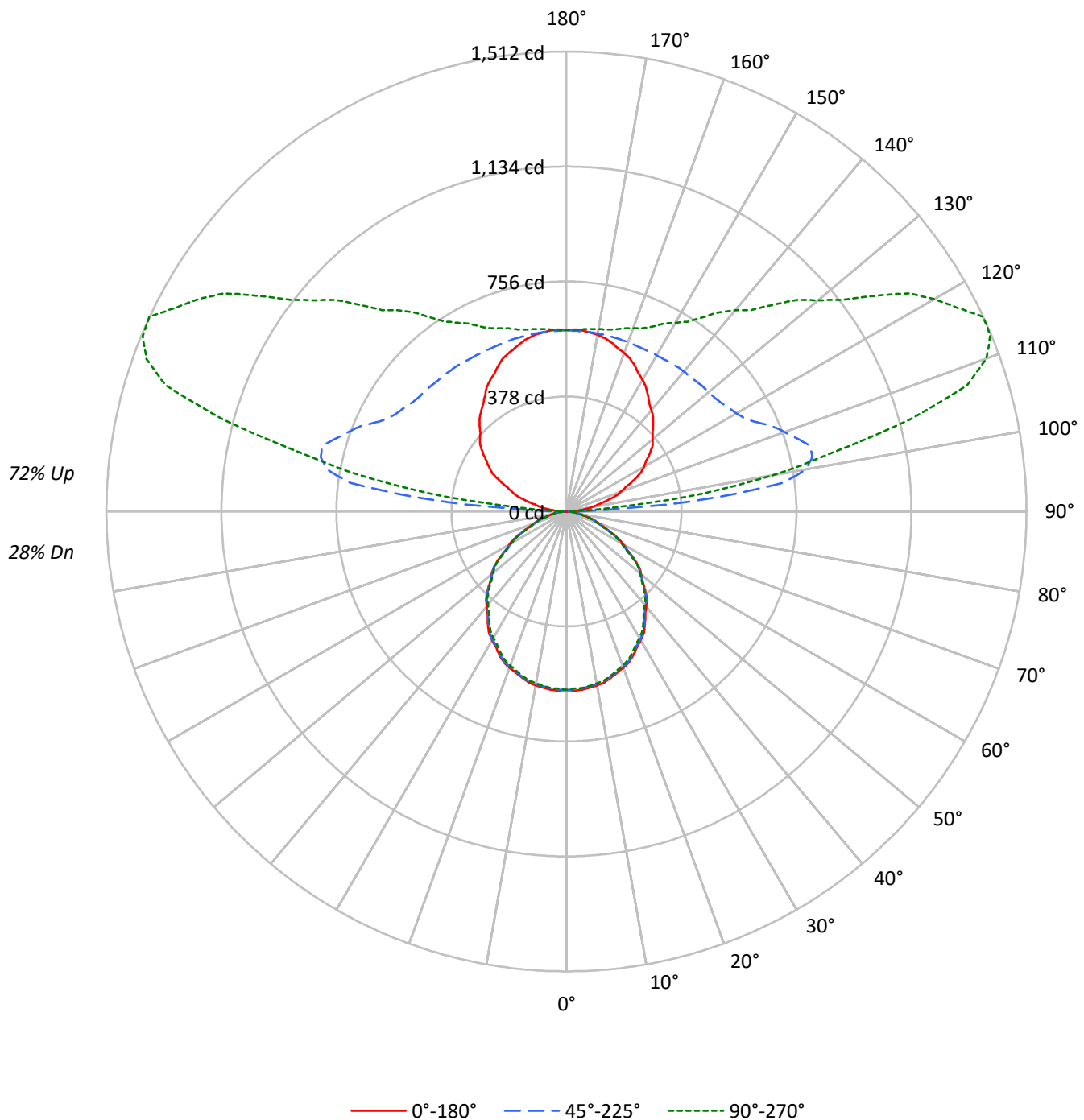
Lumens per Lamp: N/A
Luminaire Lumens: 5351.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

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	1.0
10°-20°	158.3	3.0
20°-30°	237.2	4.4
30°-40°	278.2	5.2
40°-50°	279.1	5.2
50°-60°	238.1	4.4
60°-70°	155.3	2.9
70°-80°	77.9	1.5
80°-90°	23.0	0.4
90°-100°	278.9	5.2
100°-110°	751.4	14.0
110°-120°	788.6	14.7
120°-130°	639.9	12.0
130°-140°	501.9	9.4
140°-150°	385.3	7.2
150°-160°	277.0	5.2
160°-170°	169.3	3.2
170°-180°	57.1	1.1
0°-30°	451.0	8.4
0°-40°	729.2	13.6
0°-60°	1246.3	23.3
0°-90°	1502.5	28.1
90°-120°	1819.0	34.0
90°-150°	3346.1	62.5
90°-180°	3849.0	71.9
0°-180°	5351.9	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°	2	4	9	10	10	4
95°	42	152	457	234	162	44
105°	139	216	831	1243	1167	146
115°	245	300	692	1337	1512	241
125°	335	385	621	1050	1236	299
135°	403	450	604	847	959	311
145°	466	503	596	724	778	293
155°	530	549	591	650	671	244
165°	574	581	593	617	620	162
175°	597	596	594	602	601	57
180°	596	596	596	596	596	

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°	4.8	7.0	8.4	8.6	9.0
90°	1.5	4.5	9.1	9.9	9.9
92.5°	18.5	65.5	129.4	62.3	43.3
95°	42.5	151.7	457.3	233.8	161.8
97.5°	67.9	173.7	717.2	599.2	451.8
100°	87.4	182.4	799.9	836.9	694.3
102.5°	106.2	194.7	827.2	1014.9	897.9
105°	139.0	216.3	831.0	1243.3	1166.8
107.5°	170.0	238.9	795.6	1360.6	1380.4
110°	190.7	256.0	763.4	1397.1	1469.1

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	273.1	732.4	1389.0	1507.4
115°	245.4	300.3	692.0	1337.1	1512.4
117.5°	275.3	326.8	660.7	1254.3	1449.5
120°	294.7	344.5	644.9	1194.9	1395.4
122.5°	311.7	360.9	633.4	1134.1	1334.0
125°	335.0	384.8	621.4	1050.2	1235.9
127.5°	357.3	406.3	613.8	976.2	1142.0
130°	370.7	419.7	610.7	933.8	1079.4
132.5°	384.1	432.5	607.7	896.5	1030.2
135°	403.4	450.2	603.9	847.2	959.4
137.5°	421.7	466.6	601.9	805.5	897.6
140°	434.5	477.6	600.1	779.7	862.9
142.5°	447.9	488.0	598.9	755.7	825.9
145°	466.4	502.8	596.3	724.4	777.8
147.5°	486.5	518.1	593.7	698.0	740.0
150°	499.8	527.3	592.5	681.4	716.3
152.5°	512.0	535.9	591.9	667.9	696.3
155°	529.5	548.8	591.0	649.9	670.7
157.5°	544.8	559.8	591.1	637.3	651.3
160°	554.5	567.1	591.7	630.0	640.4
162.5°	563.0	573.3	592.4	623.8	631.2
165°	574.3	581.0	593.3	616.9	619.8
167.5°	583.4	587.2	594.0	611.5	612.7
170°	589.5	590.9	594.0	608.5	608.5
172.5°	593.1	593.4	594.6	605.4	605.4
175°	597.1	596.3	594.0	602.3	600.9
177.5°	598.7	597.5	594.5	599.3	598.1
180°	596.3	596.3	596.3	596.3	596.3

(END OF REPORT)