

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-PP3-050U-075D-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 (G3-1910-536-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

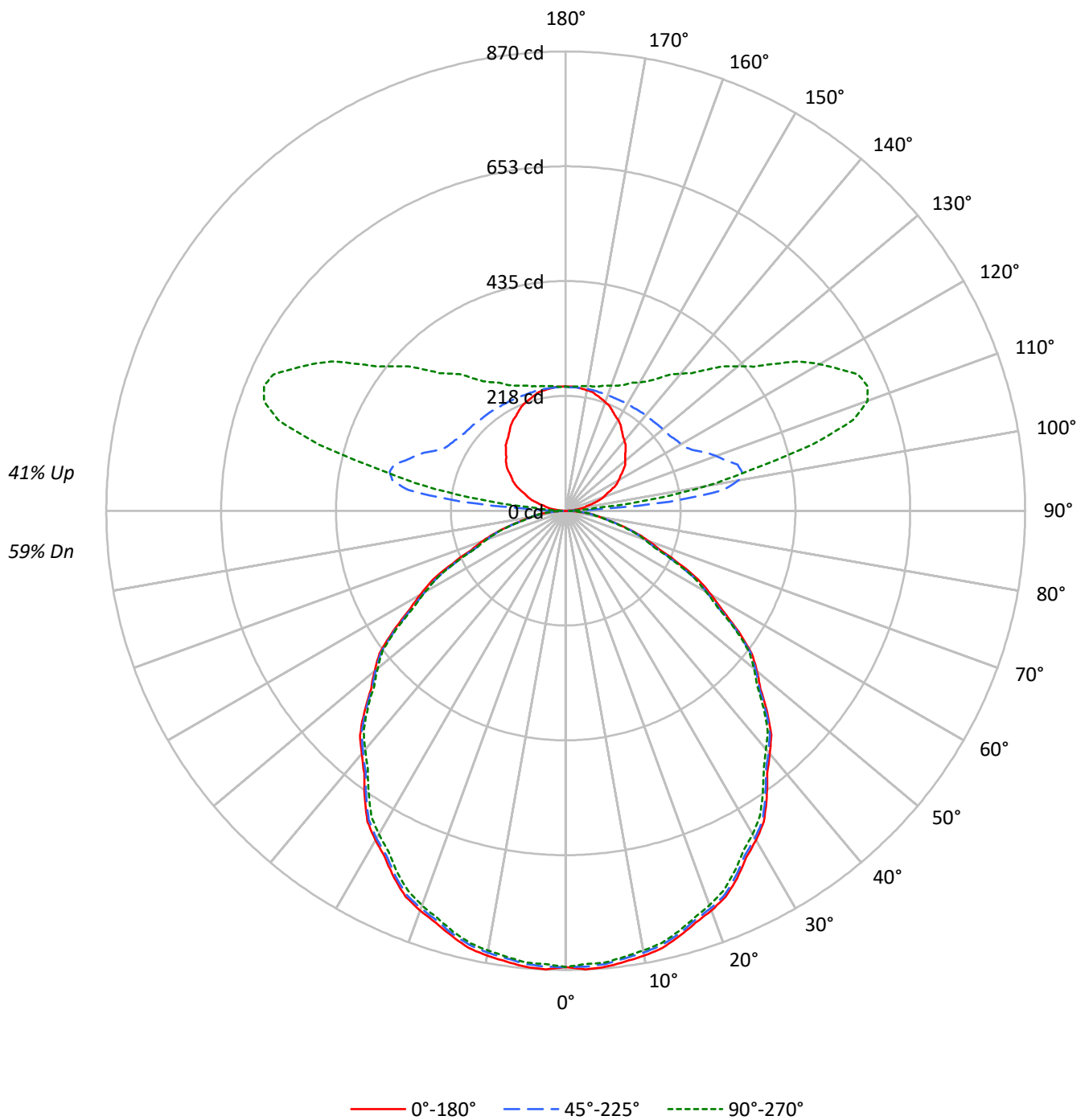
Lumens per Lamp: N/A
Luminaire Lumens: 3747.1 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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

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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	109	109	109	109		102	102	102	102		88	88	88		76	76	76		64	64	64
1	100	96	92	88		93	90	86	83		78	75	73		67	65	64		57	56	55
2	91	84	78	73		85	79	73	69		69	64	61		59	56	54		51	49	47
3	83	74	67	61		78	69	63	58		61	56	51		53	49	46		45	42	40
4	76	66	58	52		71	62	54	49		54	48	44		47	43	39		40	37	34
5	70	58	50	44		65	55	48	42		48	43	38		42	38	34		36	33	30
6	65	53	44	38		60	49	42	37		44	38	33		38	33	30		33	29	27
7	60	47	39	34		56	45	37	32		40	34	29		35	30	26		30	26	24
8	56	43	35	30		52	41	34	29		36	30	26		32	27	24		28	24	21
9	52	39	32	27		48	37	30	26		33	27	23		29	25	21		26	22	19
10	48	36	29	24		45	34	28	23		31	25	21		27	22	19		24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7975	7975	7975
5°	8033	7984	7957
10°	8020	7963	7928
15°	7967	7924	7880
20°	7915	7869	7810
25°	7820	7766	7689
30°	7676	7635	7538
35°	7474	7424	7330
40°	7236	7190	7108
45°	7038	6988	6919
50°	6785	6742	6677
55°	6434	6349	6301
60°	5857	5689	5661
65°	5161	4945	4929
70°	4456	4270	4270
75°	3836	3782	3725
80°	3379	3422	3342
85°	2646	2890	2890

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	2.2
10°-20°	233.4	6.2
20°-30°	349.6	9.3
30°-40°	410.0	10.9
40°-50°	411.3	11.0
50°-60°	350.9	9.4
60°-70°	228.8	6.1
70°-80°	114.8	3.1
80°-90°	32.7	0.9
90°-100°	112.8	3.0
100°-110°	306.3	8.2
110°-120°	315.0	8.4
120°-130°	251.8	6.7
130°-140°	197.9	5.3
140°-150°	151.7	4.0
150°-160°	109.1	2.9
160°-170°	66.7	1.8
170°-180°	22.5	0.6
0°-30°	664.7	17.7
0°-40°	1074.7	28.7
0°-60°	1837.0	49.0
0°-90°	2213.3	59.1
90°-120°	734.1	19.6
90°-150°	1335.5	35.6
90°-180°	1534.0	40.9
0°-180°	3747.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	867	859	862	859	859	82
15°	834	826	830	826	825	235
25°	768	759	763	756	755	353
35°	664	657	659	652	651	415
45°	539	536	536	530	530	415
55°	400	398	395	392	392	355
65°	236	232	226	225	226	236
75°	108	108	106	105	104	117
85°	25	27	27	27	27	29
90°	1	3	5	7	7	2
95°	17	62	196	86	57	18
105°	54	85	337	513	483	58
115°	97	117	270	536	611	95
125°	133	151	244	411	485	118
135°	160	178	237	335	378	124
145°	185	198	234	284	306	116
155°	209	217	233	256	263	96
165°	227	230	233	243	244	64
175°	235	236	234	237	236	22
180°	235	235	235	235	235	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.4	864.4	864.4	864.4	864.4
2.5°	869.9	862.7	864.4	863.1	859.6
5°	867.4	859.3	862.1	859.1	859.1
7.5°	861.5	852.6	855.5	852.4	852.3
10°	856.1	847.2	850.0	847.0	846.2
12.5°	848.2	839.3	842.7	839.1	838.9
15°	834.1	825.9	829.6	826.5	825.0
17.5°	818.2	809.3	813.6	809.4	808.8
20°	806.1	797.2	801.5	795.5	795.5
22.5°	791.5	782.6	787.6	779.7	779.7
25°	768.2	759.3	762.9	756.0	755.3
27.5°	740.5	731.7	735.5	727.7	727.6
30°	720.5	712.3	716.7	708.3	707.6
32.5°	698.6	691.1	694.2	685.9	685.2
35°	663.6	657.0	659.1	651.5	650.8
37.5°	626.8	620.0	622.4	615.9	615.6
40°	600.8	596.3	597.0	591.6	590.2
42.5°	576.5	571.5	572.1	566.8	566.5
45°	539.4	535.7	535.6	530.3	530.3
47.5°	500.0	497.2	496.4	492.0	491.8
50°	472.7	470.5	469.7	465.9	465.2
52.5°	444.2	443.2	440.6	437.4	437.3
55°	400.0	398.5	394.7	392.4	391.7
57.5°	352.0	349.0	344.7	341.4	342.0
60°	317.4	314.5	308.3	306.8	306.8
62.5°	284.1	280.5	274.4	272.3	273.5
65°	236.4	231.9	226.5	225.0	225.8
67.5°	193.0	189.0	183.2	183.2	182.6
70°	165.2	162.9	158.3	158.3	158.3
72.5°	140.3	139.3	135.9	135.9	135.3
75°	107.6	107.6	106.1	105.3	104.5
77.5°	80.6	80.9	80.2	79.4	78.0
80°	63.6	65.1	64.4	63.6	62.9
82.5°	47.9	49.4	49.2	47.9	47.7
85°	25.0	27.2	27.3	27.3	27.3
87.5°	6.8	9.6	10.8	11.1	11.7
90°	0.8	3.0	5.3	6.8	6.8
92.5°	6.8	30.9	53.6	23.0	19.5
95°	16.6	61.7	196.4	85.5	57.4
97.5°	27.5	68.1	301.1	234.2	164.5
100°	34.7	72.4	333.1	337.7	272.7
102.5°	42.0	76.7	341.6	417.6	360.3
105°	54.4	84.7	336.9	512.9	482.7
107.5°	67.2	94.0	317.4	562.2	570.6
110°	76.3	100.7	302.9	571.8	608.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.1	107.3	288.4	563.8	618.3
115°	96.7	117.4	269.7	536.5	611.1
117.5°	108.5	128.3	257.7	497.7	581.8
120°	116.3	135.5	252.3	471.7	555.2
122.5°	123.0	142.2	248.7	445.7	526.2
125°	132.9	151.4	244.0	411.1	484.9
127.5°	141.9	160.2	241.4	384.8	448.2
130°	147.3	165.0	240.2	368.4	425.2
132.5°	152.7	170.5	239.0	354.3	404.7
135°	160.1	177.9	237.2	334.8	377.7
137.5°	168.1	184.2	236.3	317.6	353.6
140°	173.0	188.5	235.7	306.6	339.1
142.5°	177.8	192.1	235.1	298.1	325.2
145°	185.1	198.3	234.2	284.5	305.9
147.5°	193.2	204.6	233.4	273.8	290.6
150°	198.7	208.3	233.4	267.7	281.0
152.5°	202.9	211.3	232.8	262.2	273.1
155°	209.2	216.6	232.6	255.5	262.9
157.5°	215.4	221.2	232.6	250.9	256.5
160°	219.0	224.2	232.6	247.8	252.3
162.5°	222.7	226.7	233.2	245.4	248.7
165°	226.6	229.6	233.4	243.2	244.0
167.5°	230.7	232.2	234.2	240.7	241.3
170°	231.9	233.4	234.2	239.4	239.4
172.5°	233.1	234.0	234.2	238.2	238.2
175°	234.9	235.6	234.2	237.2	236.4
177.5°	235.5	235.5	233.7	236.1	234.9
180°	234.9	234.9	234.9	234.9	234.9

(END OF REPORT)