

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: P936303

Luminaire Tested: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936303
REPORT IS A COMBINATION OF REPORTS P933445 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

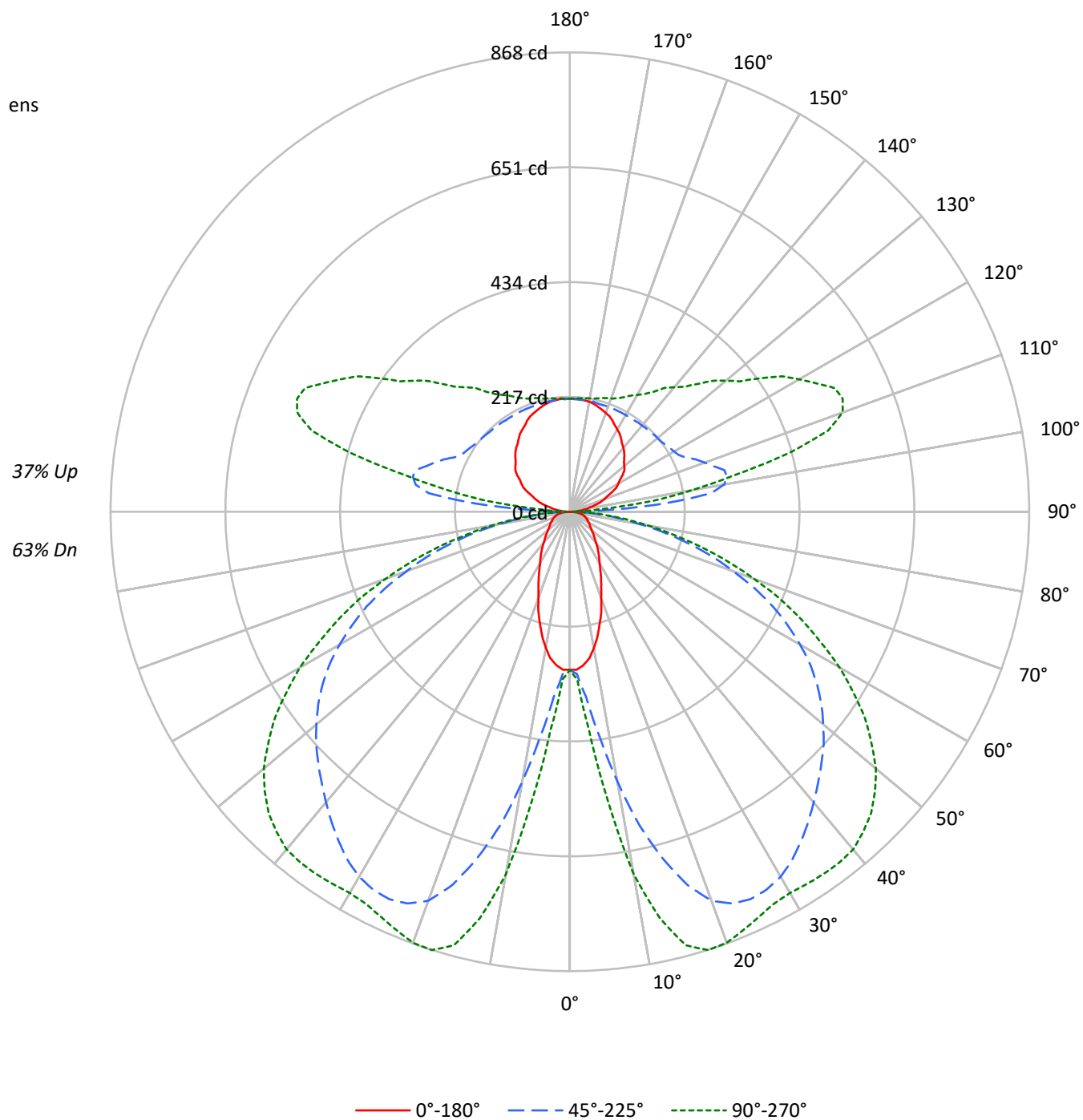
Lumens per Lamp: N/A
Luminaire Lumens: 3697.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33
Input Voltage (V): NR
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1848	1848	1848
5°	1805	2135	2484
10°	1637	3112	4118
15°	1390	4064	4973
20°	1132	4710	5068
25°	943	4927	4965
30°	795	4957	4956
35°	703	4873	5084
40°	612	4765	5217
45°	554	4685	5237
50°	508	4613	5150
55°	486	4508	4922
60°	498	4308	4562
65°	516	4005	4065
70°	548	3490	3436
75°	605	2843	2681
80°	657	1969	1806
85°	572	1044	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.0
10°-20°	171.3	4.6
20°-30°	299.6	8.1
30°-40°	385.6	10.4
40°-50°	430.7	11.6
50°-60°	412.6	11.2
60°-70°	327.0	8.8
70°-80°	192.3	5.2
80°-90°	54.2	1.5
90°-100°	104.2	2.8
100°-110°	274.0	7.4
110°-120°	284.1	7.7
120°-130°	227.9	6.2
130°-140°	178.8	4.8
140°-150°	137.2	3.7
150°-160°	98.8	2.7
160°-170°	60.5	1.6
170°-180°	20.4	0.6
0°-30°	509.5	13.8
0°-40°	895.1	24.2
0°-60°	1738.5	47.0
0°-90°	2311.9	62.5
90°-120°	662.2	17.9
90°-150°	1206.1	32.6
90°-180°	1386.0	37.5
0°-180°	3697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	291	312	352	398	412	27
15°	218	402	678	822	848	61
25°	139	456	808	843	844	64
35°	94	436	761	804	836	59
45°	64	348	672	770	805	50
55°	46	221	571	663	681	42
65°	36	117	424	476	483	36
75°	27	72	232	256	256	28
85°	10	22	58	63	64	10
90°	1	4	11	5	5	2
95°	14	54	179	92	63	15
105°	49	75	303	460	429	52
115°	88	106	243	484	552	87
125°	122	137	221	373	440	108
135°	145	160	214	301	341	112
145°	169	179	211	257	277	106
155°	190	196	211	232	238	88
165°	206	208	211	219	222	58
175°	214	214	212	215	215	20
180°	214	214	214	214	214	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	298.7	298.7	298.7	298.7	298.7	298.7	298.7	298.7	298.7	298.7	298.7
2.5°	298.7	298.7	300.6	301.6	303.6	304.5	306.5	308.4	314.1	315.1	317.0
5°	291.1	294.9	307.4	312.2	325.7	343.9	351.5	364.0	390.0	397.7	402.5
7.5°	279.5	288.2	318.9	326.6	360.2	408.3	428.4	455.3	496.6	516.8	533.2
10°	261.3	279.5	334.2	352.6	407.3	480.3	517.8	555.2	617.7	645.5	656.1
12.5°	241.1	270.9	350.6	375.6	454.4	561.0	606.1	647.5	718.5	756.0	761.7
15°	218.0	258.4	366.0	402.5	504.3	628.2	678.1	729.1	795.4	822.3	829.0
17.5°	197.9	248.8	380.4	418.9	542.7	688.7	739.6	782.0	835.7	854.0	858.7
20°	173.0	233.4	390.0	440.0	583.1	733.0	782.0	814.6	851.1	862.7	864.6
22.5°	154.6	217.1	395.8	447.6	610.0	759.8	801.1	827.0	852.1	855.9	856.8
25°	139.3	198.8	394.8	456.3	633.1	776.1	807.8	827.0	841.5	843.4	843.4
27.5°	124.9	178.7	391.0	458.2	650.4	780.0	805.0	818.4	825.1	829.0	829.0
30°	112.4	159.5	381.3	454.4	658.0	776.1	796.4	803.1	809.7	815.6	818.4
32.5°	102.8	141.2	366.9	446.7	658.9	766.6	781.0	784.8	794.4	807.8	812.7
35°	94.2	123.0	350.6	436.1	653.2	751.2	760.8	764.7	783.9	804.0	810.7
37.5°	85.5	109.5	329.5	417.9	644.5	733.0	739.6	746.4	776.1	800.2	807.8
40°	76.9	98.0	304.5	397.7	631.2	710.8	716.6	727.1	766.6	794.4	802.1
42.5°	70.1	88.3	277.6	376.6	613.8	685.9	694.5	709.9	755.0	784.8	793.4
45°	64.4	78.8	248.8	347.7	591.7	659.9	672.4	693.5	741.6	770.4	778.0
47.5°	58.6	72.0	219.0	317.9	567.7	634.0	650.4	674.3	723.3	751.2	757.9
50°	53.8	65.3	189.3	286.2	541.8	606.1	625.3	650.4	700.3	726.2	734.9
52.5°	49.9	59.6	161.4	254.6	512.0	577.3	599.5	625.3	672.4	697.4	703.2
55°	46.1	54.7	137.3	220.9	481.2	546.5	570.6	595.5	641.7	662.8	666.7
57.5°	44.2	50.9	117.2	189.3	448.6	512.0	538.9	561.9	605.2	621.5	625.3
60°	41.4	48.0	101.8	162.4	413.0	479.3	502.4	525.4	561.9	575.4	578.3
62.5°	38.4	46.1	90.3	136.4	376.6	440.9	463.9	485.1	515.8	525.4	529.3
65°	36.5	44.2	81.7	117.2	339.1	400.5	423.6	441.9	466.8	476.4	478.4
67.5°	34.6	42.3	75.0	100.8	301.6	360.2	377.5	394.8	414.0	423.6	424.6
70°	31.7	40.3	69.1	89.3	263.2	314.1	328.5	346.8	362.1	366.9	369.9
72.5°	29.8	37.4	65.3	80.7	223.9	269.9	283.3	293.9	307.4	312.2	312.2
75°	26.9	33.6	61.5	72.0	183.5	220.9	232.4	243.0	253.6	255.6	252.6
77.5°	24.0	29.8	52.8	60.5	143.2	174.9	184.4	190.2	198.8	200.7	201.7
80°	20.2	26.0	41.4	47.1	103.7	128.7	135.4	140.3	147.9	147.9	149.8
82.5°	15.4	20.2	29.8	33.6	70.1	88.3	94.2	97.0	101.8	101.8	101.8
85°	9.6	12.5	19.2	22.1	42.3	53.8	57.7	58.6	62.5	63.4	63.4
87.5°	4.8	6.7	12.5	13.5	22.1	27.9	27.9	29.8	29.8	28.8	27.9
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5	92.5	89.3
97.5°	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0	213.6	207.4
100°	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6	300.0	292.5
102.5°	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4	373.8	367.4
105°	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5	459.8	456.4
107.5°	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7	504.6	505.5
110°	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5	516.1	519.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3	508.7	514.2
115°	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5	483.9	491.5
117.5°	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0	449.6	458.0
120°	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2	426.6	434.8
122.5°	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7	403.5	411.6
125°	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2	372.9	380.4
127.5°	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8	348.4	354.7
130°	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0	332.8	338.6
132.5°	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0	319.6	324.8
135°	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0	301.0	305.5
137.5°	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7	287.3	290.9
140°	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0	276.2	279.6
142.5°	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8	268.5	271.4
145°	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5	256.8	259.0
147.5°	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0	247.1	248.9
150°	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3	241.4	243.0
152.5°	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3	237.0	238.2
155°	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8	231.7	232.4
157.5°	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8	227.1	227.7
160°	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2	224.8	225.1
162.5°	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8	222.7	223.0
165°	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6	219.4	219.6
167.5°	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1	217.9	218.0
170°	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1	217.9	217.9
172.5°	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4	216.8	216.7
175°	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3	215.3	215.3
177.5°	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2	215.0	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	298.7	298.7
2.5°	318.9	317.0
5°	410.2	412.1
7.5°	552.4	551.4
10°	686.8	695.4
12.5°	784.8	786.7
15°	844.4	848.2
17.5°	867.4	868.4
20°	868.4	866.5
22.5°	857.8	855.9
25°	845.4	844.4
27.5°	833.8	834.8
30°	829.0	831.9
32.5°	829.0	833.8
35°	830.9	835.7
37.5°	830.0	835.7
40°	826.1	832.9
42.5°	815.6	820.3
45°	799.2	805.0
47.5°	778.0	782.0
50°	751.2	755.0
52.5°	717.6	718.5
55°	677.2	681.1
57.5°	634.0	635.0
60°	586.0	588.9
62.5°	535.1	535.1
65°	481.2	483.1
67.5°	425.5	430.3
70°	368.9	369.9
72.5°	313.1	313.1
75°	255.6	256.5
77.5°	200.7	200.7
80°	148.9	149.8
82.5°	102.8	104.7
85°	64.4	64.4
87.5°	29.8	26.9
90°	5.4	5.4
92.5°	21.8	17.5
95°	76.1	63.0
97.5°	182.4	157.4
100°	262.8	233.0
102.5°	341.9	316.4
105°	442.7	429.0
107.5°	508.7	512.1
110°	533.9	548.3

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	536.1	558.1
115°	521.9	552.4
117.5°	491.8	525.5
120°	467.6	500.3
122.5°	443.9	476.2
125°	410.1	439.9
127.5°	379.8	404.9
130°	361.8	385.1
132.5°	345.6	366.4
135°	323.4	341.3
137.5°	305.6	320.2
140°	293.3	307.0
142.5°	283.2	295.0
145°	268.0	277.0
147.5°	256.3	263.7
150°	249.0	255.0
152.5°	242.7	247.2
155°	235.4	238.5
157.5°	229.8	231.9
160°	226.3	227.6
162.5°	224.1	225.3
165°	220.9	222.1
167.5°	218.6	219.1
170°	217.9	217.9
172.5°	216.2	215.8
175°	215.3	215.3
177.5°	214.3	213.8
180°	213.8	213.8

(END OF REPORT)