

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: P936307

Luminaire Tested: SQ4-FB-025U-050D-B50-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936307
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-B50-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

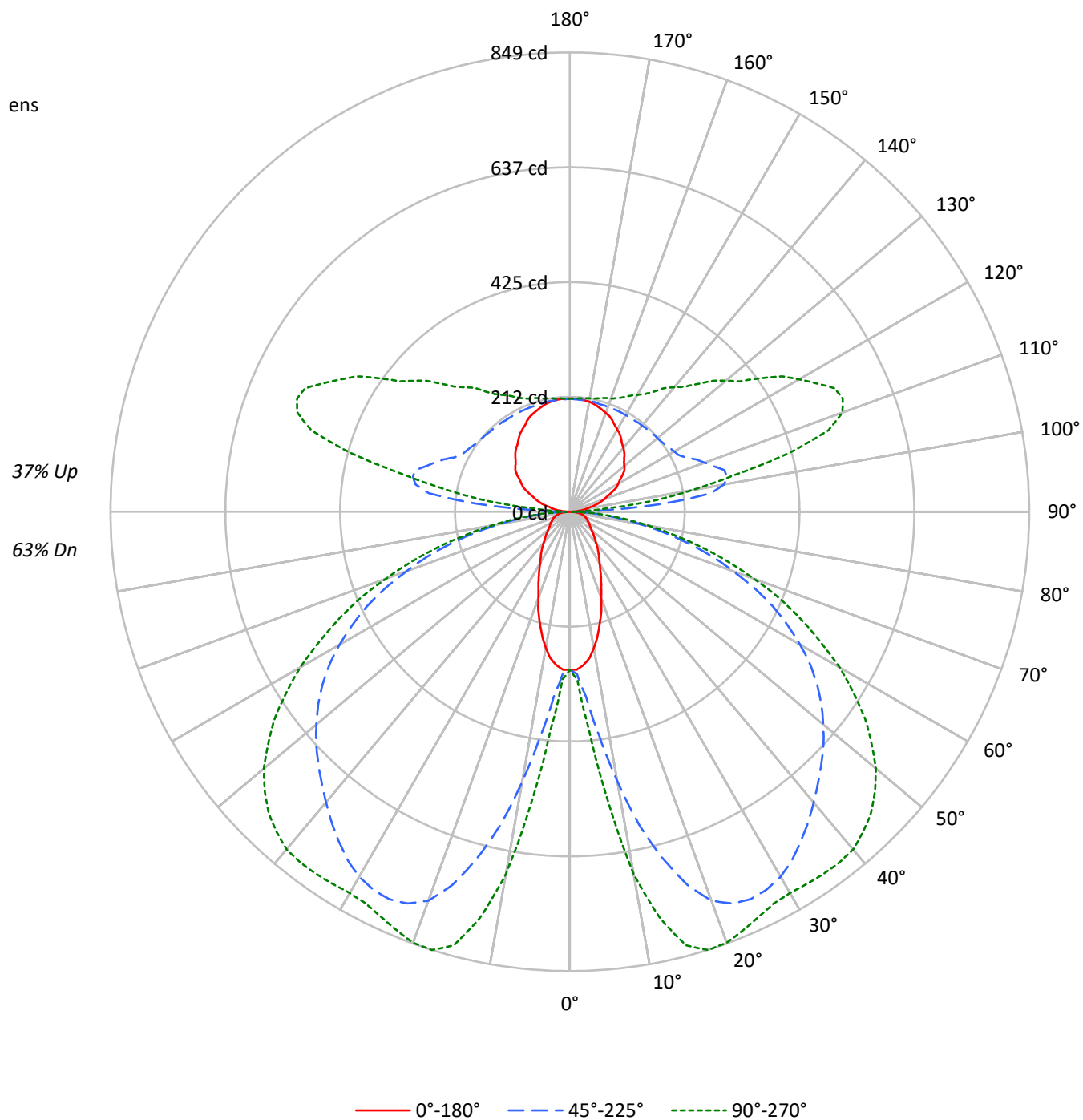
Lumens per Lamp: N/A
Luminaire Lumens: 3616.4 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

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°	1808	1808	1808
5°	1765	2088	2429
10°	1600	3044	4027
15°	1359	3975	4864
20°	1107	4606	4957
25°	923	4819	4856
30°	778	4848	4847
35°	688	4766	4972
40°	599	4660	5101
45°	542	4582	5122
50°	496	4512	5037
55°	475	4410	4814
60°	486	4214	4461
65°	505	3917	3976
70°	536	3414	3359
75°	592	2780	2622
80°	641	1925	1766
85°	560	1021	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.0
10°-20°	167.5	4.6
20°-30°	293.0	8.1
30°-40°	377.2	10.4
40°-50°	421.3	11.6
50°-60°	403.5	11.2
60°-70°	319.8	8.8
70°-80°	188.0	5.2
80°-90°	53.0	1.5
90°-100°	101.9	2.8
100°-110°	267.9	7.4
110°-120°	277.8	7.7
120°-130°	222.9	6.2
130°-140°	174.9	4.8
140°-150°	134.2	3.7
150°-160°	96.7	2.7
160°-170°	59.1	1.6
170°-180°	20.0	0.6
0°-30°	498.3	13.8
0°-40°	875.5	24.2
0°-60°	1700.2	47.0
0°-90°	2261.1	62.5
90°-120°	647.6	17.9
90°-150°	1179.6	32.6
90°-180°	1355.0	37.5
0°-180°	3616.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	285	305	344	389	403	26
15°	213	394	663	804	830	59
25°	136	446	790	825	826	63
35°	92	427	744	786	817	57
45°	63	340	658	754	787	49
55°	45	216	558	648	666	41
65°	36	115	414	466	472	35
75°	26	70	227	250	251	28
85°	9	22	56	62	63	10
90°	1	4	11	5	5	2
95°	13	53	176	90	62	15
105°	48	73	296	450	420	51
115°	86	104	237	473	540	85
125°	119	134	216	365	430	106
135°	142	156	209	294	334	110
145°	165	175	206	251	271	103
155°	186	192	206	227	233	86
165°	201	204	206	214	217	57
175°	209	209	208	210	210	20
180°	209	209	209	209	209	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	292.2	292.2	292.2	292.2	292.2	292.2	292.2	292.2	292.2	292.2	292.2
2.5°	292.2	292.2	294.0	295.0	296.9	297.9	299.7	301.6	307.2	308.1	310.0
5°	284.7	288.4	300.7	305.3	318.5	336.3	343.8	356.0	381.4	388.9	393.7
7.5°	273.4	281.9	311.9	319.4	352.3	399.3	419.0	445.3	485.7	505.5	521.5
10°	255.5	273.4	326.9	344.8	398.4	469.7	506.4	543.0	604.1	631.3	641.7
12.5°	235.8	265.0	342.9	367.3	444.4	548.6	592.8	633.3	702.7	739.4	745.0
15°	213.2	252.7	357.9	393.7	493.2	614.4	663.2	713.1	777.9	804.2	810.8
17.5°	193.5	243.3	372.0	409.7	530.8	673.6	723.4	764.8	817.3	835.2	839.9
20°	169.1	228.3	381.4	430.3	570.3	716.8	764.8	796.7	832.4	843.7	845.6
22.5°	151.2	212.3	387.0	437.8	596.5	743.1	783.5	808.8	833.3	837.1	838.0
25°	136.3	194.5	386.1	446.3	619.1	759.1	790.1	808.8	822.9	824.8	824.8
27.5°	122.2	174.8	382.4	448.1	636.1	762.9	787.3	800.4	807.0	810.8	810.8
30°	109.9	156.0	372.9	444.4	643.5	759.1	778.9	785.4	791.9	797.6	800.4
32.5°	100.5	138.1	358.8	436.8	644.5	749.7	763.8	767.6	776.9	790.1	794.8
35°	92.1	120.3	342.9	426.6	638.9	734.7	744.0	747.9	766.6	786.3	792.9
37.5°	83.6	107.1	322.2	408.7	630.4	716.8	723.4	730.0	759.1	782.6	790.1
40°	75.2	95.8	297.9	388.9	617.3	695.2	700.9	711.1	749.7	776.9	784.5
42.5°	68.6	86.4	271.5	368.3	600.3	670.8	679.2	694.2	738.4	767.6	776.0
45°	63.0	77.1	243.3	340.1	578.7	645.4	657.6	678.3	725.3	753.5	760.9
47.5°	57.3	70.4	214.2	310.9	555.3	620.1	636.1	659.5	707.4	734.7	741.2
50°	52.6	63.9	185.1	279.9	529.9	592.8	611.6	636.1	684.9	710.2	718.7
52.5°	48.8	58.3	157.8	249.0	500.7	564.6	586.3	611.6	657.6	682.1	687.7
55°	45.1	53.5	134.3	216.0	470.6	534.5	558.1	582.4	627.6	648.2	652.0
57.5°	43.2	49.8	114.6	185.1	438.7	500.7	527.1	549.6	591.9	607.8	611.6
60°	40.4	47.0	99.6	158.8	404.0	468.8	491.4	513.9	549.6	562.7	565.5
62.5°	37.5	45.1	88.4	133.4	368.3	431.2	453.7	474.5	504.5	513.9	517.6
65°	35.7	43.2	79.9	114.6	331.7	391.7	414.3	432.2	456.5	466.0	467.8
67.5°	33.8	41.4	73.3	98.6	295.0	352.3	369.2	386.1	404.9	414.3	415.3
70°	31.0	39.4	67.6	87.3	257.4	307.2	321.3	339.1	354.2	358.8	361.7
72.5°	29.1	36.6	63.9	78.9	218.9	263.9	277.1	287.5	300.7	305.3	305.3
75°	26.3	32.9	60.1	70.4	179.4	216.0	227.3	237.7	248.0	249.9	247.0
77.5°	23.4	29.1	51.7	59.2	140.0	171.0	180.4	186.1	194.5	196.3	197.3
80°	19.7	25.4	40.4	46.0	101.4	125.9	132.4	137.2	144.7	144.7	146.5
82.5°	15.0	19.7	29.1	32.9	68.6	86.4	92.1	94.9	99.6	99.6	99.6
85°	9.4	12.2	18.8	21.6	41.4	52.6	56.4	57.3	61.1	62.0	62.0
87.5°	4.7	6.5	12.2	13.2	21.6	27.3	27.3	29.1	29.1	28.2	27.3
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7	26.6	25.6
95°	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8	90.5	87.3
97.5°	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9	208.9	202.9
100°	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1	293.4	286.1
102.5°	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7	365.6	359.3
105°	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5	449.7	446.4
107.5°	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2	493.5	494.4
110°	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0	504.7	508.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9	497.5	502.9
115°	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6	473.3	480.7
117.5°	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7	439.7	447.9
120°	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3	417.2	425.3
122.5°	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1	394.6	402.6
125°	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1	364.7	372.0
127.5°	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1	340.7	346.9
130°	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6	325.5	331.2
132.5°	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7	312.6	317.7
135°	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0	294.4	298.8
137.5°	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9	280.9	284.5
140°	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4	270.1	273.5
142.5°	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3	262.5	265.4
145°	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2	251.2	253.3
147.5°	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9	241.6	243.4
150°	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2	236.1	237.6
152.5°	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3	231.8	232.9
155°	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9	226.6	227.3
157.5°	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9	222.1	222.7
160°	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4	219.9	220.1
162.5°	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0	217.8	218.1
165°	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8	214.5	214.8
167.5°	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4	213.1	213.2
170°	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4	213.1	213.1
172.5°	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6	212.0	211.9
175°	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6	210.5	210.5
177.5°	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5	210.2	210.2
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	292.2	292.2
2.5°	311.9	310.0
5°	401.2	403.0
7.5°	540.2	539.3
10°	671.7	680.1
12.5°	767.6	769.4
15°	825.8	829.6
17.5°	848.4	849.3
20°	849.3	847.4
22.5°	838.9	837.1
25°	826.8	825.8
27.5°	815.5	816.4
30°	810.8	813.6
32.5°	810.8	815.5
35°	812.7	817.3
37.5°	811.7	817.3
40°	807.9	814.5
42.5°	797.6	802.3
45°	781.7	787.3
47.5°	760.9	764.8
50°	734.7	738.4
52.5°	701.8	702.7
55°	662.3	666.1
57.5°	620.1	621.0
60°	573.1	575.9
62.5°	523.3	523.3
65°	470.6	472.5
67.5°	416.2	420.9
70°	360.8	361.7
72.5°	306.3	306.3
75°	249.9	250.9
77.5°	196.3	196.3
80°	145.6	146.5
82.5°	100.5	102.4
85°	63.0	63.0
87.5°	29.1	26.3
90°	5.3	5.3
92.5°	21.3	17.1
95°	74.4	61.6
97.5°	178.4	153.9
100°	257.0	227.9
102.5°	334.4	309.4
105°	433.0	419.6
107.5°	497.5	500.8
110°	522.2	536.2

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	524.3	545.8
115°	510.4	540.2
117.5°	481.0	514.0
120°	457.3	489.3
122.5°	434.1	465.7
125°	401.1	430.2
127.5°	371.5	396.0
130°	353.9	376.6
132.5°	338.0	358.4
135°	316.3	333.8
137.5°	298.9	313.2
140°	286.8	300.3
142.5°	276.9	288.5
145°	262.1	270.9
147.5°	250.7	257.9
150°	243.5	249.4
152.5°	237.3	241.8
155°	230.2	233.2
157.5°	224.7	226.8
160°	221.4	222.6
162.5°	219.2	220.3
165°	216.0	217.2
167.5°	213.8	214.3
170°	213.1	213.1
172.5°	211.5	211.1
175°	210.5	210.5
177.5°	209.6	209.1
180°	209.1	209.1

(END OF REPORT)