

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: P936506

Luminaire Tested: SQ4-FB-025U-100D-B50-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936506
REPORT IS A COMBINATION OF REPORTS P933439 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-100D-B50-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

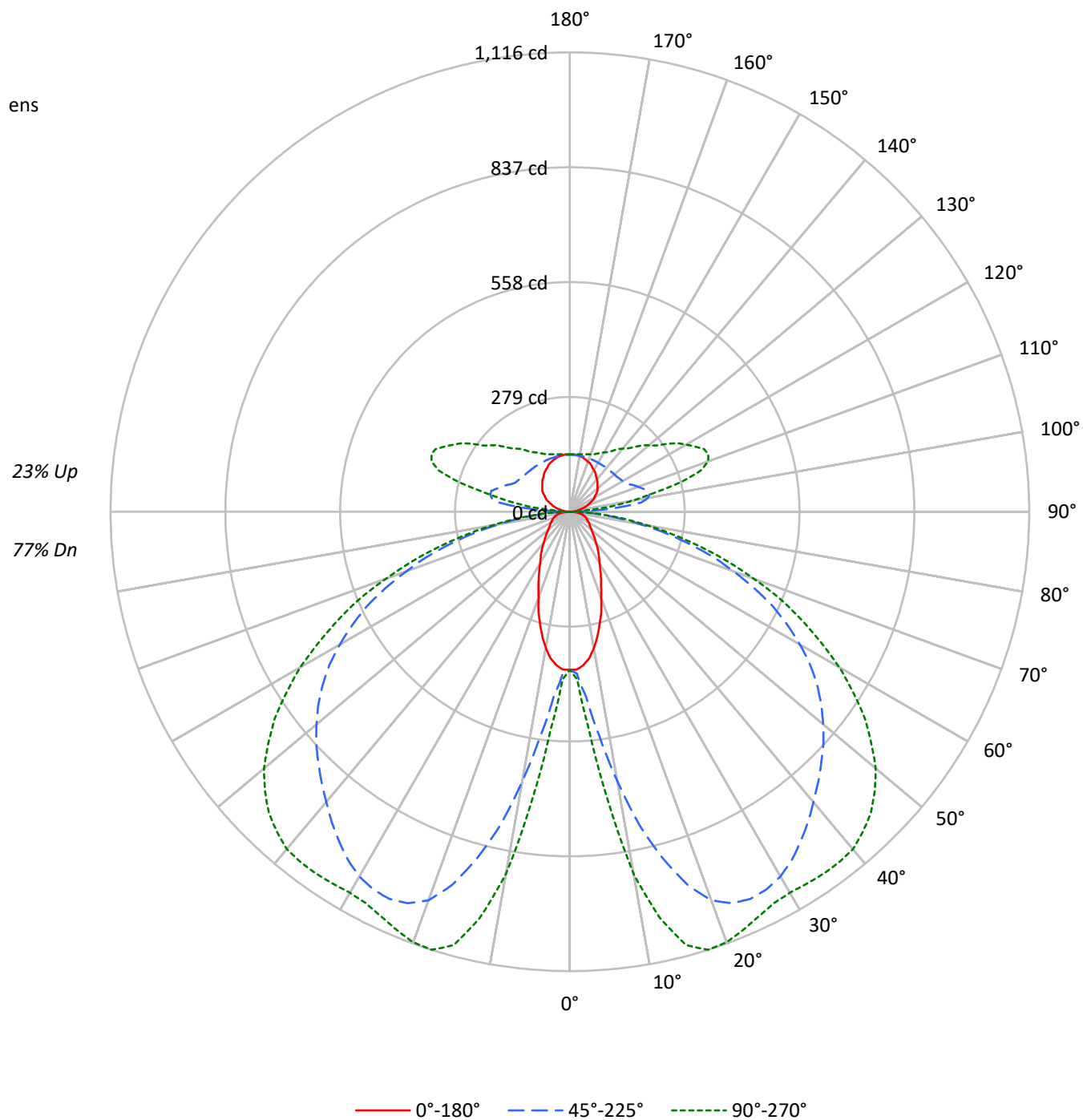
Lumens per Lamp: N/A
Luminaire Lumens: 3873.3 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81
1	103	98	94	90	98	94	90	86	85	82	79	77	75	73	70	68	66
2	93	85	78	72	88	81	75	69	73	68	64	67	63	59	61	57	55
3	84	74	65	59	80	70	63	57	64	58	53	58	53	49	53	49	45
4	77	65	56	49	73	62	54	47	56	50	44	51	46	41	47	42	38
5	70	57	48	42	66	55	46	40	50	43	38	46	40	35	41	37	33
6	64	51	42	36	61	49	41	35	45	38	32	41	35	30	37	32	28
7	59	46	37	31	56	44	36	30	40	33	28	37	31	27	34	29	25
8	55	42	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20
10	48	35	27	21	45	33	26	21	31	24	20	28	23	19	26	21	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3561	3561	3561
5°	3476	4113	4788
10°	3149	5991	7936
15°	2673	7822	9583
20°	2173	9058	9766
25°	1812	9472	9568
30°	1525	9524	9551
35°	1347	9358	9797
40°	1171	9145	10052
45°	1059	8987	10092
50°	969	8842	9925
55°	925	8635	9485
60°	945	8245	8790
65°	977	7656	7835
70°	1033	6664	6619
75°	1135	5420	5166
80°	1212	3745	3480
85°	1019	1978	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.3
10°-20°	220.0	5.7
20°-30°	384.9	9.9
30°-40°	495.5	12.8
40°-50°	553.4	14.3
50°-60°	530.0	13.7
60°-70°	420.1	10.8
70°-80°	247.0	6.4
80°-90°	69.2	1.8
90°-100°	67.9	1.8
100°-110°	178.6	4.6
110°-120°	185.2	4.8
120°-130°	148.6	3.8
130°-140°	116.6	3.0
140°-150°	89.5	2.3
150°-160°	64.4	1.7
160°-170°	39.4	1.0
170°-180°	13.3	0.3
0°-30°	654.6	16.9
0°-40°	1150.0	29.7
0°-60°	2233.5	57.7
0°-90°	2969.8	76.7
90°-120°	431.8	11.1
90°-150°	786.4	20.3
90°-180°	904.0	23.3
0°-180°	3873.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	374	401	452	511	530	35
15°	280	517	871	1056	1090	78
25°	179	586	1038	1084	1085	82
35°	121	560	977	1033	1074	76
45°	83	447	864	990	1034	64
55°	59	284	733	852	875	54
65°	47	151	544	612	621	47
75°	35	93	299	328	330	36
85°	12	28	74	81	83	13
90°	1	3	7	4	4	2
95°	9	35	117	60	41	10
105°	32	49	197	300	280	34
115°	57	69	158	316	360	56
125°	80	89	144	243	287	71
135°	95	104	139	196	223	73
145°	110	117	138	168	180	69
155°	124	128	138	151	156	57
165°	134	136	138	143	145	38
175°	139	139	138	140	140	13
180°	139	139	139	139	139	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8
2.5°	383.8	383.8	386.3	387.5	389.9	391.3	393.7	396.1	403.6	404.8	407.2
5°	374.0	378.9	394.9	401.1	418.3	441.8	451.7	467.7	501.1	510.9	517.1
7.5°	359.1	370.2	409.7	419.6	462.8	524.5	550.4	585.0	638.0	664.0	684.9
10°	335.7	359.1	429.5	452.9	523.2	617.1	665.2	713.3	793.5	829.3	842.9
12.5°	309.8	348.0	450.5	482.5	583.8	720.8	778.8	831.8	923.2	971.3	978.6
15°	280.1	331.9	470.2	517.1	647.9	807.2	871.3	936.7	1021.9	1056.4	1065.0
17.5°	254.2	319.6	488.7	538.1	697.3	884.9	950.3	1004.6	1073.7	1097.2	1103.3
20°	222.1	299.9	501.1	565.3	749.2	941.7	1004.6	1046.5	1093.4	1108.3	1110.7
22.5°	198.7	278.9	508.5	575.1	783.6	976.2	1029.3	1062.6	1094.6	1099.6	1100.8
25°	179.0	255.4	507.3	586.2	813.3	997.1	1037.9	1062.6	1081.1	1083.5	1083.5
27.5°	160.5	229.6	502.3	588.7	835.5	1002.1	1034.2	1051.5	1060.1	1065.0	1065.0
30°	144.4	204.8	490.0	583.8	845.4	997.1	1023.1	1031.7	1040.4	1047.8	1051.5
32.5°	132.1	181.4	471.5	573.8	846.6	984.8	1003.3	1008.3	1020.6	1037.9	1044.1
35°	121.0	157.9	450.5	560.3	839.2	965.1	977.4	982.4	1007.0	1033.0	1041.6
37.5°	109.8	140.7	423.3	536.9	828.1	941.7	950.3	958.9	997.1	1028.1	1037.9
40°	98.7	125.9	391.3	510.9	810.8	913.3	920.6	934.3	984.8	1020.6	1030.5
42.5°	90.1	113.6	356.7	483.8	788.6	881.1	892.3	912.1	970.1	1008.3	1019.4
45°	82.7	101.2	319.6	446.7	760.2	847.9	863.9	891.0	952.8	989.8	999.7
47.5°	75.3	92.6	281.4	408.5	729.4	814.5	835.5	866.4	929.3	965.1	973.7
50°	69.1	84.0	243.1	367.8	696.0	778.8	803.4	835.5	899.7	933.0	944.1
52.5°	64.2	76.5	207.3	327.1	657.8	741.7	770.1	803.4	863.9	896.0	903.4
55°	59.2	70.3	176.5	283.8	618.3	702.2	733.1	765.1	824.4	851.5	856.5
57.5°	56.8	65.4	150.6	243.1	576.4	657.8	692.4	722.0	777.5	798.5	803.4
60°	53.1	61.7	130.9	208.6	530.7	615.8	645.5	675.1	722.0	739.3	742.9
62.5°	49.4	59.2	116.0	175.2	483.8	566.5	596.1	623.3	662.8	675.1	680.0
65°	46.9	56.8	104.9	150.6	435.6	514.6	544.2	567.7	599.8	612.1	614.6
67.5°	44.5	54.3	96.3	129.5	387.5	462.8	485.0	507.3	531.9	544.2	545.5
70°	40.7	51.8	88.8	114.8	338.1	403.6	422.1	445.5	465.2	471.5	475.1
72.5°	38.3	48.1	84.0	103.7	287.6	346.8	364.1	377.6	394.9	401.1	401.1
75°	34.6	43.2	79.0	92.6	235.7	283.8	298.7	312.2	325.8	328.3	324.6
77.5°	30.8	38.3	67.9	77.7	183.9	224.6	237.0	244.3	255.4	258.0	259.2
80°	25.9	33.3	53.1	60.4	133.3	165.4	174.0	180.2	190.1	190.1	192.5
82.5°	19.7	25.9	38.3	43.2	90.1	113.6	121.0	124.7	130.9	130.9	130.9
85°	12.3	16.1	24.7	28.4	54.3	69.1	74.1	75.3	80.2	81.4	81.4
87.5°	6.2	8.6	16.1	17.3	28.4	35.8	35.8	38.3	38.3	37.0	35.8
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.5	3.5
92.5°	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2	17.7	17.0
95°	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2	60.3	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2	139.3	135.1
100°	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7	195.6	190.7
102.5°	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5	243.7	239.5
105°	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7	299.8	297.6
107.5°	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4	329.0	329.6
110°	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3	336.5	338.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3	331.8	335.3
115°	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1	315.5	320.5
117.5°	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8	293.2	298.7
120°	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9	278.1	283.5
122.5°	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1	263.0	268.2
125°	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1	243.1	248.0
127.5°	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8	227.1	231.3
130°	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8	217.1	220.8
132.5°	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8	208.5	211.8
135°	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3	196.2	199.1
137.5°	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2	187.3	189.7
140°	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3	180.1	182.3
142.5°	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9	175.0	177.0
145°	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5	167.5	169.0
147.5°	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3	161.1	162.3
150°	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8	157.5	158.4
152.5°	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9	154.6	155.3
155°	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6	151.1	151.6
157.5°	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6	148.0	148.4
160°	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6	146.5	146.7
162.5°	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6	145.1	145.3
165°	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2	143.0	143.2
167.5°	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8	142.1	142.2
170°	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8	142.1	142.1
172.5°	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4	141.3	141.2
175°	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7	140.3	140.3
177.5°	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6	140.1	140.0
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	383.8	383.8
2.5°	409.7	407.2
5°	527.0	529.5
7.5°	709.7	708.3
10°	882.4	893.5
12.5°	1008.3	1010.8
15°	1084.8	1089.7
17.5°	1114.4	1115.7
20°	1115.7	1113.1
22.5°	1102.1	1099.6
25°	1086.1	1084.8
27.5°	1071.2	1072.4
30°	1065.0	1068.8
32.5°	1065.0	1071.2
35°	1067.6	1073.7
37.5°	1066.3	1073.7
40°	1061.4	1070.0
42.5°	1047.8	1053.9
45°	1026.8	1034.2
47.5°	999.7	1004.6
50°	965.1	970.1
52.5°	921.9	923.2
55°	870.0	875.0
57.5°	814.5	815.8
60°	752.8	756.5
62.5°	687.4	687.4
65°	618.3	620.7
67.5°	546.8	552.9
70°	473.9	475.1
72.5°	402.4	402.4
75°	328.3	329.5
77.5°	258.0	258.0
80°	191.3	192.5
82.5°	132.1	134.5
85°	82.7	82.7
87.5°	38.3	34.6
90°	3.5	3.5
92.5°	14.2	11.4
95°	49.7	41.1
97.5°	118.9	102.6
100°	171.4	152.0
102.5°	222.9	206.2
105°	288.7	279.7
107.5°	331.8	333.9
110°	348.1	357.4

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	349.6	363.9
115°	340.3	360.2
117.5°	320.6	342.7
120°	304.9	326.2
122.5°	289.4	310.5
125°	267.4	286.8
127.5°	247.6	263.9
130°	235.9	251.1
132.5°	225.4	238.9
135°	210.9	222.6
137.5°	199.2	208.8
140°	191.2	200.2
142.5°	184.7	192.3
145°	174.8	180.5
147.5°	167.1	171.9
150°	162.3	166.3
152.5°	158.2	161.2
155°	153.5	155.5
157.5°	149.8	151.2
160°	147.6	148.3
162.5°	146.1	146.8
165°	144.0	144.8
167.5°	142.4	142.8
170°	142.1	142.1
172.5°	140.9	140.7
175°	140.3	140.3
177.5°	139.7	139.4
180°	139.4	139.4

(END OF REPORT)