

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: P936606

Luminaire Tested: SQ4-FB-025U-125D-B50-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936606
REPORT IS A COMBINATION OF REPORTS P933440 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-B50-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

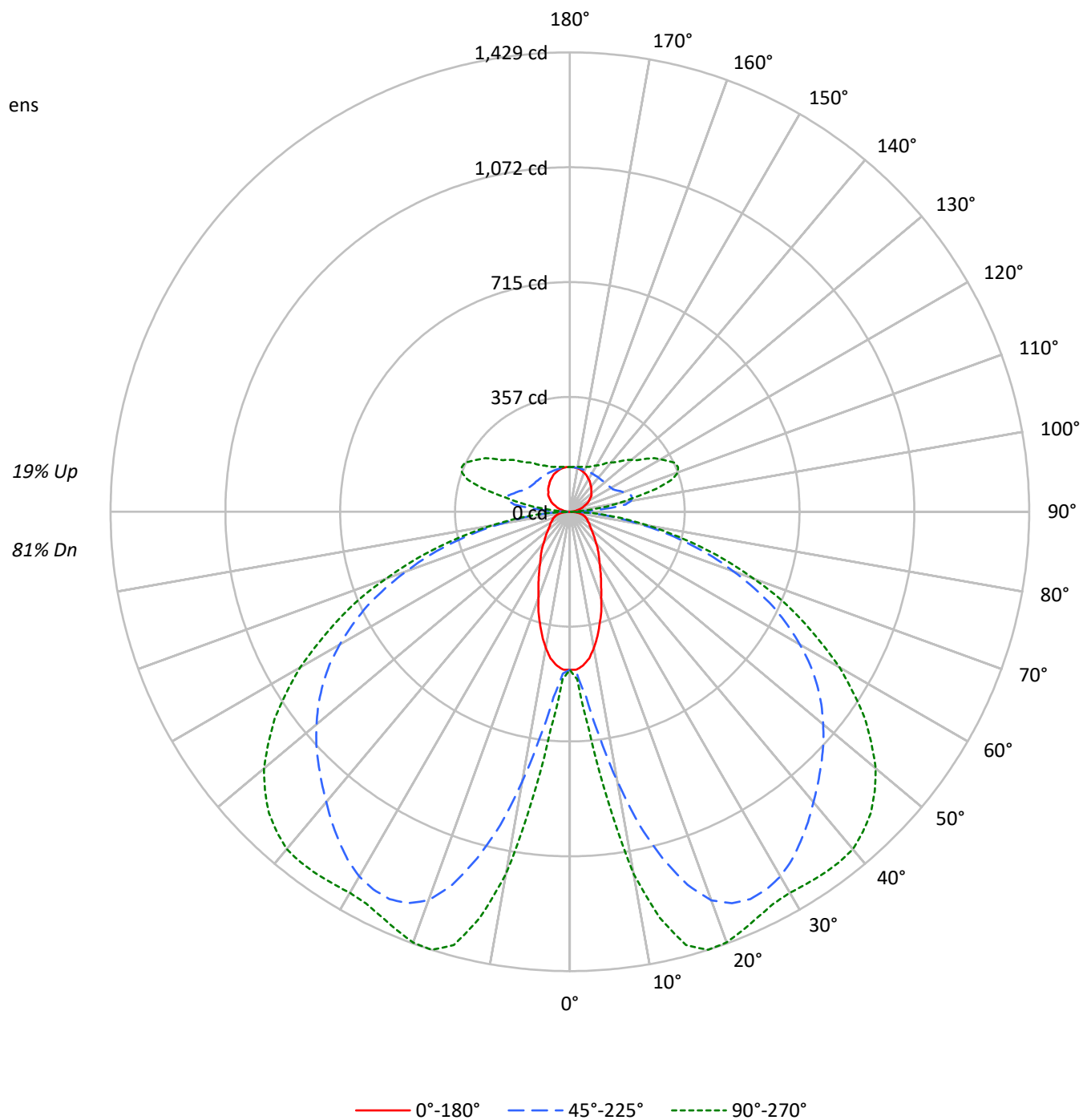
Lumens per Lamp: N/A
Luminaire Lumens: 4706.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.6
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
RCR																	
0	114	114	114	114	110	110	110	110	100	100	100		92	92	92		84
1	104	99	94	90	99	95	91	87	87	84	81		80	77	75		73
2	94	85	78	72	89	82	75	70	75	70	66		69	65	61		63
3	85	74	66	59	81	71	64	58	65	59	54		60	55	51		55
4	77	65	56	49	74	63	54	48	58	51	45		53	47	43		49
5	71	58	49	42	67	55	47	41	51	44	39		47	41	36		43
6	65	51	42	36	62	49	41	35	46	39	33		42	36	31		39
7	60	46	37	31	57	45	36	30	41	34	29		38	32	27		35
8	55	42	33	27	53	40	32	27	37	30	25		35	29	24		32
9	52	38	30	24	49	37	29	24	34	27	23		32	26	22		29
10	48	35	27	22	46	34	26	21	31	25	20		29	23	19		27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4561	4561	4561
5°	4451	5267	6130
10°	4032	7672	10163
15°	3423	10017	12272
20°	2784	11600	12508
25°	2320	12130	12253
30°	1953	12196	12230
35°	1724	11985	12546
40°	1501	11712	12873
45°	1356	11508	12923
50°	1241	11324	12709
55°	1184	11058	12146
60°	1210	10558	11256
65°	1252	9805	10034
70°	1323	8533	8477
75°	1453	6940	6616
80°	1554	4797	4458
85°	1308	2530	2282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.4
10°-20°	281.8	6.0
20°-30°	492.9	10.5
30°-40°	634.5	13.5
40°-50°	708.7	15.1
50°-60°	678.8	14.4
60°-70°	537.9	11.4
70°-80°	316.3	6.7
80°-90°	88.4	1.9
90°-100°	67.9	1.4
100°-110°	178.6	3.8
110°-120°	185.2	3.9
120°-130°	148.6	3.2
130°-140°	116.6	2.5
140°-150°	89.5	1.9
150°-160°	64.4	1.4
160°-170°	39.4	0.8
170°-180°	13.3	0.3
0°-30°	838.2	17.8
0°-40°	1472.7	31.3
0°-60°	2860.2	60.8
0°-90°	3802.9	80.8
90°-120°	431.8	9.2
90°-150°	786.4	16.7
90°-180°	904.0	19.2
0°-180°	4706.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	479	514	578	654	678	44
15°	359	662	1116	1353	1396	100
25°	229	751	1329	1388	1389	106
35°	155	718	1252	1323	1375	97
45°	106	572	1106	1268	1324	82
55°	76	364	939	1090	1120	69
65°	60	193	697	784	795	60
75°	44	118	382	420	422	46
85°	16	36	95	104	106	17
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°	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
2.5°	491.5	491.5	494.6	496.2	499.4	501.0	504.2	507.3	516.8	518.4	521.5
5°	478.9	485.2	505.8	513.6	535.7	565.8	578.4	599.0	641.7	654.3	662.2
7.5°	459.9	474.1	524.7	537.3	592.6	671.6	704.9	749.2	817.1	850.2	877.1
10°	429.8	459.9	549.9	580.0	670.1	790.2	851.8	913.5	1016.2	1062.1	1079.4
12.5°	396.7	445.7	576.8	617.9	747.6	923.0	997.2	1065.2	1182.2	1243.8	1253.2
15°	358.7	425.2	602.1	662.2	829.7	1033.6	1115.8	1199.5	1308.6	1352.8	1363.9
17.5°	325.6	409.4	625.9	689.1	892.9	1133.1	1216.9	1286.5	1374.9	1405.0	1412.9
20°	284.5	384.1	641.7	723.8	959.3	1205.9	1286.5	1340.2	1400.3	1419.2	1422.4
22.5°	254.4	357.2	651.1	736.5	1003.6	1250.1	1318.1	1360.7	1401.8	1408.2	1409.7
25°	229.2	327.2	649.6	750.7	1041.5	1277.0	1329.2	1360.7	1384.5	1387.6	1387.6
27.5°	205.5	293.9	643.2	753.8	1069.9	1283.3	1324.4	1346.5	1357.6	1363.9	1363.9
30°	184.9	262.4	627.5	747.6	1082.6	1277.0	1310.1	1321.2	1332.3	1341.8	1346.5
32.5°	169.1	232.3	603.7	734.9	1084.2	1261.2	1284.9	1291.2	1307.0	1329.2	1337.0
35°	154.9	202.3	576.8	717.5	1074.7	1235.9	1251.7	1258.0	1289.6	1322.8	1333.8
37.5°	140.7	180.2	542.1	687.5	1060.5	1205.9	1216.9	1228.0	1277.0	1316.5	1329.2
40°	126.5	161.2	501.0	654.3	1038.3	1169.5	1179.0	1196.4	1261.2	1307.0	1319.6
42.5°	115.3	145.4	456.7	619.5	1009.8	1128.5	1142.7	1168.0	1242.2	1291.2	1305.5
45°	105.9	129.6	409.4	572.1	973.5	1085.8	1106.3	1141.1	1220.1	1267.5	1280.1
47.5°	96.4	118.5	360.3	523.1	934.0	1043.1	1069.9	1109.5	1190.0	1235.9	1247.0
50°	88.5	107.5	311.3	470.9	891.3	997.2	1028.9	1069.9	1152.1	1194.8	1209.1
52.5°	82.2	98.0	265.5	418.8	842.4	949.8	986.2	1028.9	1106.3	1147.4	1156.9
55°	75.8	90.0	226.0	363.5	791.8	899.3	938.8	979.9	1055.7	1090.4	1096.8
57.5°	72.7	83.8	192.8	311.3	738.0	842.4	886.6	924.6	995.6	1022.5	1028.9
60°	68.0	79.0	167.6	267.1	679.6	788.7	826.6	864.5	924.6	946.7	951.4
62.5°	63.2	75.8	148.6	224.4	619.5	725.4	763.4	798.1	848.7	864.5	870.8
65°	60.1	72.7	134.3	192.8	557.9	659.0	697.0	727.0	768.1	783.9	787.1
67.5°	56.9	69.6	123.3	166.0	496.2	592.6	621.1	649.6	681.2	697.0	698.5
70°	52.1	66.4	113.8	147.0	433.0	516.8	540.5	570.5	595.8	603.7	608.5
72.5°	49.0	61.6	107.5	132.7	368.3	444.1	466.3	483.6	505.8	513.6	513.6
75°	44.3	55.3	101.2	118.5	301.9	363.5	382.5	399.8	417.2	420.4	415.6
77.5°	39.5	49.0	87.0	99.6	235.5	287.7	303.5	312.9	327.2	330.3	331.9
80°	33.2	42.7	68.0	77.4	170.6	211.7	222.9	230.7	243.4	243.4	246.6
82.5°	25.3	33.2	49.0	55.3	115.3	145.4	154.9	159.6	167.6	167.6	167.6
85°	15.8	20.5	31.6	36.3	69.6	88.5	94.8	96.4	102.7	104.3	104.3
87.5°	7.9	11.0	20.5	22.1	36.3	45.9	45.9	49.0	49.0	47.4	45.9
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°	491.5	491.5
2.5°	524.7	521.5
5°	674.8	678.0
7.5°	908.8	907.2
10°	1130.0	1144.2
12.5°	1291.2	1294.3
15°	1389.2	1395.5
17.5°	1427.2	1428.7
20°	1428.7	1425.6
22.5°	1411.3	1408.2
25°	1390.7	1389.2
27.5°	1371.8	1373.4
30°	1363.9	1368.7
32.5°	1363.9	1371.8
35°	1367.1	1374.9
37.5°	1365.5	1374.9
40°	1359.2	1370.2
42.5°	1341.8	1349.6
45°	1314.9	1324.4
47.5°	1280.1	1286.5
50°	1235.9	1242.2
52.5°	1180.6	1182.2
55°	1114.2	1120.5
57.5°	1043.1	1044.7
60°	964.1	968.8
62.5°	880.3	880.3
65°	791.8	794.9
67.5°	700.1	708.1
70°	606.9	608.5
72.5°	515.2	515.2
75°	420.4	422.0
77.5°	330.3	330.3
80°	245.0	246.6
82.5°	169.1	172.2
85°	105.9	105.9
87.5°	49.0	44.3
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)