

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: P938098

Luminaire Tested: SQ4-FB-125U-100D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938098
REPORT IS A COMBINATION OF REPORTS P933599 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-100D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

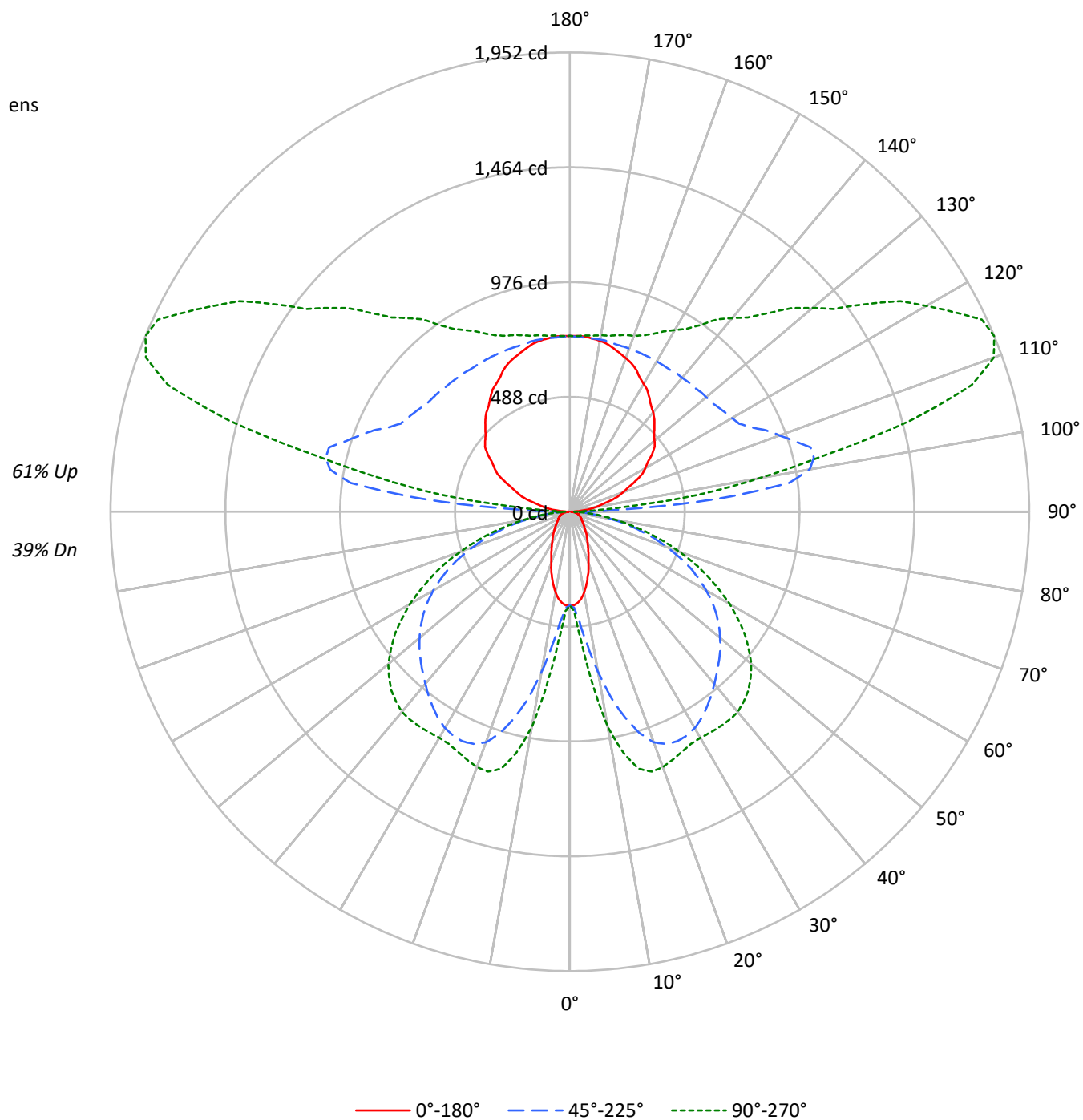
Lumens per Lamp: N/A
Luminaire Lumens: 7929.4 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	104	104	104	104	95	95	95	95		77	77	77		61	61	61		46	46	46
1	95	90	86	83	86	82	79	76		67	65	62		53	51	50		40	39	38
2	86	78	72	67	78	71	66	61		58	54	51		46	43	41		35	33	31
3	78	68	61	55	71	62	56	51		51	46	42		40	37	34		30	28	26
4	71	60	52	46	64	55	48	42		45	40	35		35	32	29		27	24	22
5	65	53	45	39	59	49	41	36		40	34	30		31	27	24		24	21	19
6	60	47	39	33	54	43	36	31		35	30	26		28	24	21		21	18	16
7	55	43	35	29	50	39	32	27		32	26	23		25	21	18		19	16	14
8	51	38	31	25	46	35	28	23		29	24	20		23	19	16		18	15	13
9	47	35	27	22	43	32	25	21		26	21	17		21	17	14		16	13	11
10	44	32	25	20	40	29	23	18		24	19	16		19	15	13		15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3695	3695	3695
5°	3606	4267	4967
10°	3267	6216	8233
15°	2773	8116	9942
20°	2255	9398	10133
25°	1879	9827	9927
30°	1582	9881	9908
35°	1397	9710	10165
40°	1215	9487	10429
45°	1098	9323	10470
50°	1005	9173	10297
55°	959	8959	9840
60°	978	8554	9120
65°	1013	7942	8129
70°	1071	6913	6867
75°	1177	5623	5360
80°	1254	3884	3611
85°	1060	2050	1849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	0.6
10°-20°	228.3	2.9
20°-30°	399.3	5.0
30°-40°	514.0	6.5
40°-50°	574.2	7.2
50°-60°	549.9	6.9
60°-70°	435.8	5.5
70°-80°	256.3	3.2
80°-90°	74.0	0.9
90°-100°	364.4	4.6
100°-110°	958.0	12.1
110°-120°	993.4	12.5
120°-130°	796.8	10.0
130°-140°	625.2	7.9
140°-150°	479.9	6.1
150°-160°	345.6	4.4
160°-170°	211.4	2.7
170°-180°	71.4	0.9
0°-30°	679.1	8.6
0°-40°	1193.1	15.0
0°-60°	2317.2	29.2
0°-90°	3083.3	38.9
90°-120°	2315.8	29.2
90°-150°	4217.6	53.2
90°-180°	4846.0	61.1
0°-180°	7929.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	388	416	469	530	549	36
15°	291	536	904	1096	1130	81
25°	186	608	1077	1124	1126	86
35°	126	581	1014	1072	1114	78
45°	86	464	896	1027	1073	66
55°	61	294	761	883	908	56
65°	49	156	565	635	644	48
75°	36	96	310	341	342	38
85°	13	30	77	84	86	14
90°	5	14	38	19	19	5
95°	48	189	628	324	220	53
105°	173	261	1059	1608	1500	183
115°	306	372	848	1692	1932	303
125°	426	478	772	1304	1538	379
135°	508	559	748	1053	1194	393
145°	590	627	738	898	968	369
155°	666	685	738	810	834	306
165°	719	728	738	767	777	203
175°	748	748	743	752	752	71
180°	748	748	748	748	748	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	398.2	398.2	400.8	402.0	404.6	405.9	408.4	411.0	418.7	420.0	422.5
5°	388.0	393.1	409.7	416.1	434.0	458.3	468.6	485.3	519.9	530.0	536.4
7.5°	372.6	384.1	425.1	435.4	480.1	544.2	571.0	606.9	661.9	688.9	710.6
10°	348.3	372.6	445.5	469.9	542.8	640.2	690.1	740.0	823.3	860.4	874.5
12.5°	321.4	361.0	467.3	500.6	605.6	747.8	808.0	863.0	957.8	1007.7	1015.3
15°	290.6	344.4	487.8	536.4	672.2	837.4	904.0	971.8	1060.2	1096.0	1105.0
17.5°	263.8	331.6	507.0	558.2	723.5	918.0	985.9	1042.3	1114.0	1138.3	1144.7
20°	230.4	311.1	519.9	586.4	777.2	976.9	1042.3	1085.8	1134.4	1149.8	1152.3
22.5°	206.1	289.3	527.5	596.6	813.0	1012.8	1067.8	1102.4	1135.7	1140.8	1142.1
25°	185.7	265.0	526.3	608.1	843.8	1034.5	1076.8	1102.4	1121.6	1124.1	1124.1
27.5°	166.5	238.2	521.1	610.8	866.8	1039.6	1073.0	1090.9	1099.8	1105.0	1105.0
30°	149.8	212.5	508.3	605.6	877.0	1034.5	1061.4	1070.4	1079.4	1087.0	1090.9
32.5°	137.0	188.2	489.2	595.4	878.3	1021.7	1040.9	1046.0	1058.8	1076.8	1083.2
35°	125.5	163.9	467.3	581.3	870.6	1001.3	1014.1	1019.2	1044.8	1071.7	1080.6
37.5°	114.0	145.9	439.2	557.0	859.1	976.9	985.9	994.9	1034.5	1066.6	1076.8
40°	102.4	130.6	405.9	530.0	841.2	947.5	955.1	969.3	1021.7	1058.8	1069.1
42.5°	93.5	117.8	370.1	501.9	818.1	914.2	925.7	946.2	1006.4	1046.0	1057.6
45°	85.8	104.9	331.6	463.5	788.7	879.7	896.2	924.4	988.5	1026.8	1037.1
47.5°	78.1	96.0	292.0	423.8	756.7	845.1	866.8	898.8	964.2	1001.3	1010.2
50°	71.7	87.1	252.2	381.6	722.1	808.0	833.5	866.8	933.4	967.9	979.5
52.5°	66.6	79.4	215.1	339.3	682.5	769.5	798.9	833.5	896.2	929.6	937.2
55°	61.4	73.0	183.1	294.5	641.5	728.5	760.6	793.8	855.3	883.4	888.6
57.5°	58.9	67.8	156.2	252.2	598.0	682.5	718.3	749.0	806.6	828.4	833.5
60°	55.0	64.1	135.8	216.4	550.6	638.9	669.7	700.4	749.0	767.0	770.7
62.5°	51.3	61.4	120.3	181.8	501.9	587.7	618.4	646.6	687.6	700.4	705.5
65°	48.6	58.9	108.8	156.2	451.9	533.9	564.6	589.0	622.3	635.1	637.6
67.5°	46.1	56.3	99.9	134.4	402.0	480.1	503.2	526.3	551.8	564.6	565.9
70°	42.2	53.8	92.2	119.1	350.8	418.7	437.9	462.2	482.7	489.2	492.9
72.5°	39.7	49.9	87.1	107.6	298.4	359.8	377.7	391.8	409.7	416.1	416.1
75°	35.9	44.8	82.0	96.0	244.6	294.5	309.9	323.9	338.0	340.6	336.7
77.5°	32.0	39.7	70.4	80.6	190.8	233.0	245.8	253.5	265.0	267.6	268.9
80°	26.8	34.6	55.0	62.7	138.3	171.6	180.5	186.9	197.2	197.2	199.7
82.5°	20.4	26.8	39.7	44.8	93.5	117.8	125.5	129.4	135.8	135.8	135.8
85°	12.8	16.7	25.6	29.5	56.3	71.7	76.8	78.1	83.2	84.5	84.5
87.5°	6.4	8.9	16.7	17.9	29.5	37.1	37.1	39.7	39.7	38.4	37.1
90°	5.0	9.0	13.1	14.1	22.1	32.8	38.1	33.8	25.4	19.1	19.1
92.5°	20.1	54.2	88.3	96.8	136.1	188.6	214.7	188.2	135.2	95.3	91.6
95°	48.2	110.6	173.1	188.7	335.0	530.0	627.6	560.1	425.0	323.6	312.1
97.5°	83.2	138.3	193.4	207.2	451.2	776.5	939.2	896.4	811.1	747.0	725.2
100°	110.4	160.4	210.3	222.8	493.5	854.5	1035.0	1038.1	1044.4	1049.0	1023.0
102.5°	133.4	180.0	226.6	238.3	512.9	879.1	1062.1	1116.6	1225.4	1307.0	1284.7
105°	172.6	212.1	251.6	261.4	527.3	881.9	1059.1	1181.1	1425.0	1608.0	1595.9
107.5°	212.7	249.5	286.3	295.5	530.0	842.6	998.9	1169.1	1509.3	1764.5	1767.4
110°	239.8	273.1	306.2	314.5	526.0	807.9	948.7	1139.0	1519.4	1804.7	1817.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.4	298.1	329.7	337.6	526.1	777.4	903.1	1097.8	1487.1	1779.1	1798.3
115°	306.5	335.8	365.0	372.3	531.0	742.5	848.4	1035.9	1411.0	1692.3	1718.8
117.5°	346.2	372.8	399.3	405.9	540.9	720.8	810.8	979.9	1318.4	1572.3	1601.8
120°	369.3	394.3	419.3	425.5	548.9	713.5	795.7	950.4	1259.6	1491.6	1520.3
122.5°	391.9	417.1	442.3	448.6	560.5	709.6	784.2	923.5	1201.9	1410.8	1439.1
125°	426.5	449.4	472.4	478.1	576.0	706.4	771.6	889.9	1126.5	1303.9	1330.0
127.5°	454.6	477.7	500.9	506.7	591.5	704.6	761.1	862.6	1065.8	1218.1	1240.1
130°	469.6	494.6	519.6	525.8	602.9	705.7	757.1	847.5	1028.3	1164.0	1184.2
132.5°	485.2	510.2	535.2	541.4	612.1	706.4	753.6	834.5	996.4	1117.8	1136.0
135°	508.2	531.0	553.7	559.4	622.1	705.7	747.6	815.4	951.0	1052.6	1068.3
137.5°	531.8	554.3	576.8	582.5	637.1	710.1	746.5	803.8	918.4	1004.4	1017.2
140°	551.4	572.1	592.8	598.1	646.4	710.9	743.0	792.5	891.6	965.8	977.8
142.5°	566.4	585.6	604.8	609.6	654.1	713.4	743.0	786.5	873.5	938.7	948.9
145°	589.5	606.2	623.0	627.1	664.1	713.4	738.0	773.6	844.7	898.1	905.9
147.5°	612.6	628.9	645.2	649.2	678.8	718.2	738.0	766.0	822.0	864.0	870.5
150°	627.6	642.4	657.1	660.8	686.5	720.8	738.0	761.6	808.9	844.4	849.6
152.5°	643.2	654.4	665.5	668.3	691.6	722.5	738.0	758.1	798.6	828.8	832.8
155°	666.3	674.5	682.8	684.8	702.5	726.2	738.0	754.1	786.1	810.3	812.9
157.5°	683.3	691.4	699.3	701.4	713.6	729.9	738.0	750.5	775.5	794.2	796.0
160°	694.9	701.1	707.4	708.9	718.6	731.5	738.0	748.6	770.1	786.1	787.2
162.5°	706.4	711.1	715.8	717.0	723.9	733.3	738.0	747.0	765.1	778.7	779.7
165°	718.9	723.2	727.4	728.5	731.7	735.9	738.0	744.5	757.4	767.1	768.1
167.5°	730.5	732.5	734.5	735.0	737.7	741.3	743.0	747.3	755.7	762.1	762.6
170°	738.0	740.0	742.1	742.5	742.7	742.9	743.0	747.3	755.7	762.1	762.1
172.5°	742.1	742.4	742.9	743.0	743.0	743.0	743.0	746.3	753.0	758.0	757.7
175°	747.6	747.6	747.6	747.6	746.0	744.0	743.0	745.2	749.3	752.5	752.5
177.5°	747.6	747.6	747.6	747.6	746.4	744.8	744.0	745.6	749.0	751.6	751.1
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	398.2	398.2
2.5°	425.1	422.5
5°	546.7	549.3
7.5°	736.2	734.9
10°	915.5	926.9
12.5°	1046.0	1048.7
15°	1125.5	1130.5
17.5°	1156.2	1157.5
20°	1157.5	1154.9
22.5°	1143.4	1140.8
25°	1126.8	1125.5
27.5°	1111.3	1112.6
30°	1105.0	1108.8
32.5°	1105.0	1111.3
35°	1107.6	1114.0
37.5°	1106.2	1114.0
40°	1101.2	1110.1
42.5°	1087.0	1093.4
45°	1065.3	1073.0
47.5°	1037.1	1042.3
50°	1001.3	1006.4
52.5°	956.4	957.8
55°	902.6	907.8
57.5°	845.1	846.3
60°	781.0	784.9
62.5°	713.2	713.2
65°	641.5	644.0
67.5°	567.3	573.6
70°	491.7	492.9
72.5°	417.4	417.4
75°	340.6	341.9
77.5°	267.6	267.6
80°	198.5	199.7
82.5°	137.0	139.5
85°	85.8	85.8
87.5°	39.7	35.9
90°	19.1	19.1
92.5°	76.4	61.2
95°	266.2	220.3
97.5°	637.8	550.4
100°	918.9	814.7
102.5°	1195.5	1106.3
105°	1548.1	1500.1
107.5°	1779.0	1790.6
110°	1867.1	1917.0

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1874.9	1951.7
115°	1825.2	1931.6
117.5°	1719.8	1837.7
120°	1634.8	1749.4
122.5°	1552.0	1665.1
125°	1434.0	1538.2
127.5°	1327.9	1415.8
130°	1265.4	1346.6
132.5°	1208.6	1281.3
135°	1130.9	1193.5
137.5°	1068.5	1119.8
140°	1025.7	1073.7
142.5°	990.2	1031.5
145°	937.1	968.3
147.5°	896.2	922.1
150°	870.6	891.6
152.5°	848.6	864.4
155°	823.4	833.8
157.5°	803.4	810.8
160°	791.5	795.7
162.5°	783.7	787.7
165°	772.4	776.7
167.5°	764.3	766.1
170°	762.1	762.1
172.5°	756.1	754.6
175°	752.5	752.5
177.5°	749.3	747.6
180°	747.6	747.6

(END OF REPORT)