

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: P937998

Luminaire Tested: SQ4-FB-125U-075D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937998
REPORT IS A COMBINATION OF REPORTS P933598 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

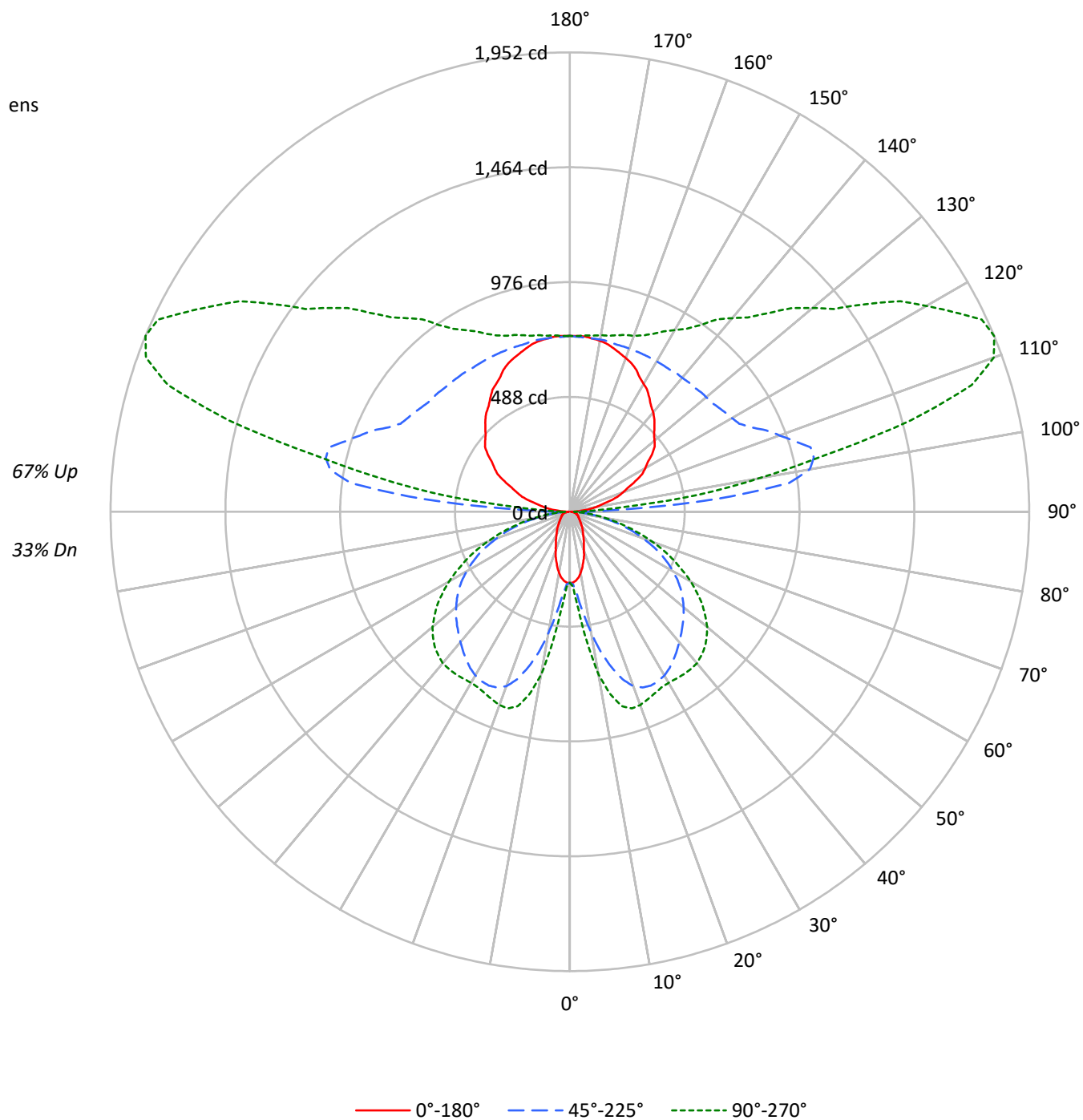
Lumens per Lamp: N/A
Luminaire Lumens: 7180.2 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.6
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	30	10
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2797	2797	2797
5°	2729	3230	3759
10°	2473	4704	6232
15°	2099	6142	7524
20°	1707	7112	7668
25°	1422	7437	7513
30°	1198	7478	7499
35°	1058	7348	7692
40°	919	7181	7893
45°	831	7056	7923
50°	761	6943	7792
55°	726	6780	7447
60°	742	6473	6902
65°	767	6011	6152
70°	812	5232	5198
75°	889	4255	4056
80°	950	2940	2734
85°	803	1551	1398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.5
10°-20°	172.8	2.4
20°-30°	302.2	4.2
30°-40°	389.0	5.4
40°-50°	434.5	6.1
50°-60°	416.2	5.8
60°-70°	329.8	4.6
70°-80°	193.9	2.7
80°-90°	56.7	0.8
90°-100°	364.4	5.1
100°-110°	958.0	13.3
110°-120°	993.4	13.8
120°-130°	796.8	11.1
130°-140°	625.2	8.7
140°-150°	479.9	6.7
150°-160°	345.6	4.8
160°-170°	211.4	2.9
170°-180°	71.4	1.0
0°-30°	514.0	7.2
0°-40°	903.0	12.6
0°-60°	1753.7	24.4
0°-90°	2334.2	32.5
90°-120°	2315.8	32.3
90°-150°	4217.6	58.7
90°-180°	4846.0	67.5
0°-180°	7180.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	294	315	355	401	416	27
15°	220	406	684	830	856	61
25°	140	460	815	851	852	65
35°	95	440	767	811	843	59
45°	65	351	678	777	812	50
55°	46	223	576	669	687	42
65°	37	118	427	481	487	37
75°	27	73	234	258	259	28
85°	10	22	58	64	65	10
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°	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4
2.5°	301.4	301.4	303.3	304.3	306.2	307.2	309.1	311.0	316.9	317.8	319.8
5°	293.6	297.5	310.1	314.9	328.5	346.9	354.7	367.3	393.4	401.2	406.0
7.5°	282.0	290.7	321.7	329.5	363.4	411.8	432.2	459.3	501.0	521.3	537.8
10°	263.6	282.0	337.2	355.6	410.9	484.5	522.3	560.1	623.1	651.2	661.8
12.5°	243.2	273.3	353.7	378.9	458.3	565.9	611.4	653.1	724.8	762.6	768.4
15°	220.0	260.7	369.2	406.0	508.7	633.7	684.1	735.5	802.3	829.5	836.2
17.5°	199.6	251.0	383.7	422.5	547.5	694.8	746.1	788.8	843.0	861.4	866.3
20°	174.4	235.5	393.4	443.8	588.2	739.3	788.8	821.7	858.5	870.2	872.1
22.5°	156.0	219.0	399.2	451.6	615.3	766.5	808.1	834.3	859.5	863.4	864.3
25°	140.5	200.6	398.3	460.3	638.6	783.0	814.9	834.3	848.8	850.8	850.8
27.5°	126.0	180.2	394.4	462.2	656.0	786.8	812.0	825.6	832.4	836.2	836.2
30°	113.4	160.9	384.7	458.3	663.8	783.0	803.3	810.1	816.9	822.7	825.6
32.5°	103.7	142.4	370.2	450.6	664.7	773.3	787.8	791.7	801.4	814.9	819.8
35°	95.0	124.0	353.7	439.9	658.9	757.8	767.4	771.3	790.7	811.1	817.8
37.5°	86.2	110.5	332.4	421.5	650.2	739.3	746.1	752.9	783.0	807.2	814.9
40°	77.5	98.8	307.2	401.2	636.6	717.1	722.9	733.5	773.3	801.4	809.1
42.5°	70.7	89.1	280.0	379.8	619.2	691.9	700.6	716.1	761.6	791.7	800.4
45°	64.9	79.5	251.0	350.8	596.9	665.7	678.3	699.6	748.1	777.1	784.9
47.5°	59.1	72.7	220.9	320.7	572.7	639.5	656.0	680.2	729.7	757.8	764.5
50°	54.3	65.9	190.9	288.8	546.5	611.4	630.8	656.0	706.4	732.6	741.3
52.5°	50.4	60.1	162.8	256.8	516.5	582.4	604.7	630.8	678.3	703.5	709.3
55°	46.5	55.2	138.6	222.9	485.5	551.4	575.6	600.8	647.3	668.6	672.5
57.5°	44.6	51.4	118.2	190.9	452.5	516.5	543.6	566.9	610.5	626.9	630.8
60°	41.7	48.4	102.7	163.8	416.7	483.5	506.8	530.0	566.9	580.4	583.3
62.5°	38.8	46.5	91.1	137.6	379.8	444.8	468.0	489.3	520.4	530.0	533.9
65°	36.8	44.6	82.4	118.2	342.1	404.1	427.3	445.7	470.9	480.6	482.6
67.5°	34.9	42.6	75.6	101.7	304.3	363.4	380.8	398.3	417.6	427.3	428.3
70°	32.0	40.7	69.8	90.1	265.5	316.9	331.4	349.8	365.3	370.2	373.1
72.5°	30.0	37.8	65.9	81.4	225.8	272.3	285.9	296.5	310.1	314.9	314.9
75°	27.1	33.9	62.0	72.7	185.1	222.9	234.5	245.2	255.8	257.8	254.8
77.5°	24.2	30.0	53.3	61.0	144.4	176.4	186.0	191.9	200.6	202.5	203.5
80°	20.3	26.2	41.7	47.5	104.7	129.8	136.6	141.5	149.2	149.2	151.2
82.5°	15.5	20.3	30.0	33.9	70.7	89.1	95.0	97.9	102.7	102.7	102.7
85°	9.7	12.6	19.4	22.3	42.6	54.3	58.1	59.1	63.0	64.0	64.0
87.5°	4.8	6.8	12.6	13.6	22.3	28.1	28.1	30.0	30.0	29.1	28.1
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°	301.4	301.4
2.5°	321.7	319.8
5°	413.8	415.7
7.5°	557.2	556.2
10°	692.8	701.6
12.5°	791.7	793.6
15°	851.8	855.6
17.5°	875.0	876.0
20°	876.0	874.0
22.5°	865.3	863.4
25°	852.7	851.8
27.5°	841.1	842.1
30°	836.2	839.2
32.5°	836.2	841.1
35°	838.2	843.0
37.5°	837.2	843.0
40°	833.3	840.1
42.5°	822.7	827.5
45°	806.2	812.0
47.5°	784.9	788.8
50°	757.8	761.6
52.5°	723.8	724.8
55°	683.1	687.0
57.5°	639.5	640.5
60°	591.1	594.0
62.5°	539.7	539.7
65°	485.5	487.4
67.5°	429.3	434.1
70°	372.1	373.1
72.5°	315.9	315.9
75°	257.8	258.7
77.5°	202.5	202.5
80°	150.2	151.2
82.5°	103.7	105.6
85°	64.9	64.9
87.5°	30.0	27.1
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)