

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: P937598

Luminaire Tested: SQ4-FB-100U-075D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937598
REPORT IS A COMBINATION OF REPORTS P933566 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-100U-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

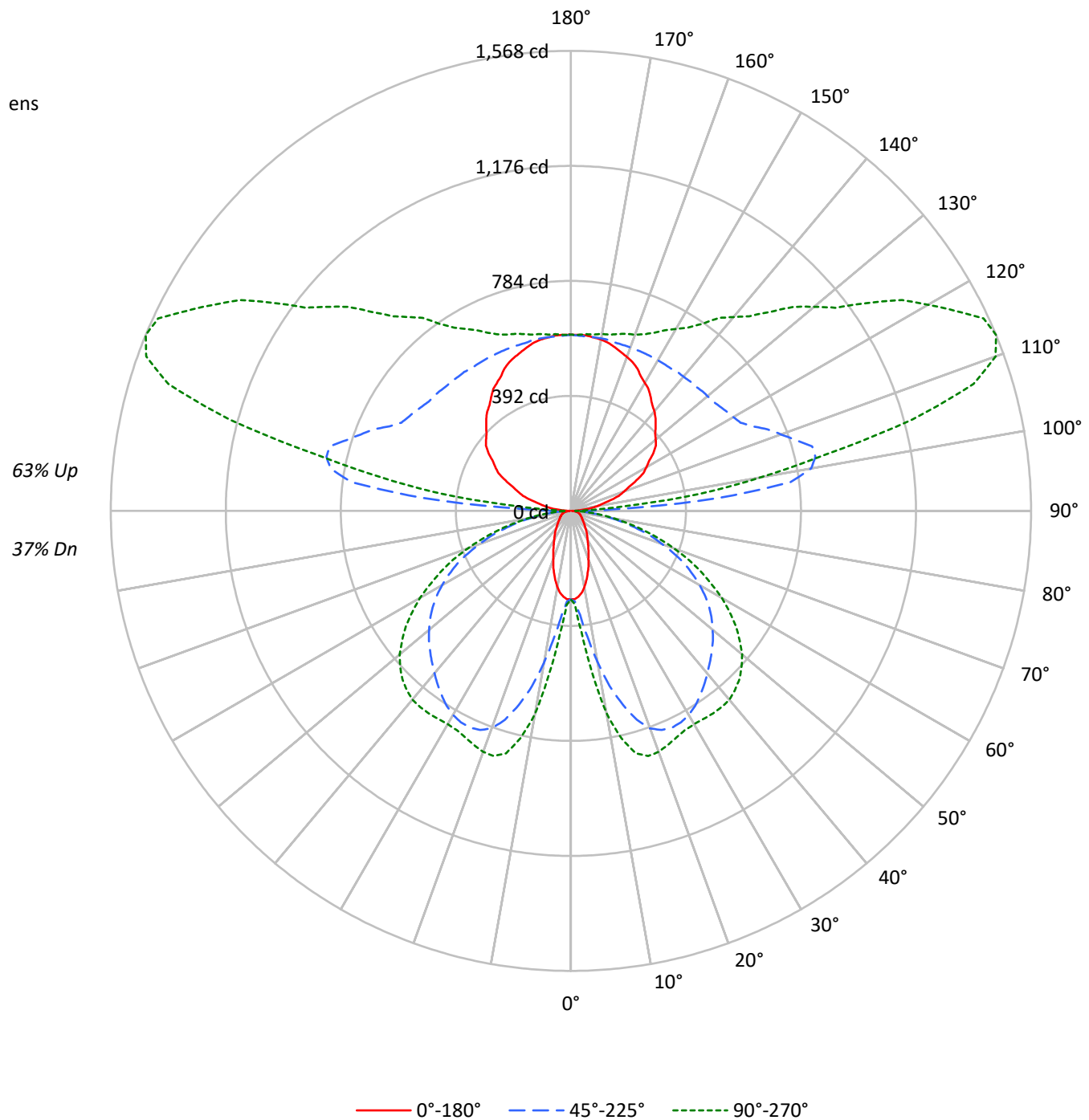
Lumens per Lamp: N/A
Luminaire Lumens: 6226.7 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 49.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37		
1	95	90	86	83	86	82	78	75	66	64	62	52	50	49	39	38	37	31		
2	86	78	72	67	77	71	66	61	58	54	50	45	42	40	34	32	30	25		
3	78	68	61	55	70	62	56	50	50	46	42	39	36	33	29	27	25	21		
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21	17		
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	15		
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13		
7	55	42	34	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11		
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12	10		
9	47	35	27	22	42	32	25	21	26	21	17	21	17	14	16	13	11	9		
10	44	32	24	20	40	29	23	18	24	19	15	19	15	12	14	12	10	8		

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	0.6
10°-20°	172.8	2.8
20°-30°	302.2	4.9
30°-40°	389.0	6.2
40°-50°	434.5	7.0
50°-60°	416.2	6.7
60°-70°	329.8	5.3
70°-80°	193.9	3.1
80°-90°	56.2	0.9
90°-100°	292.7	4.7
100°-110°	769.6	12.4
110°-120°	798.0	12.8
120°-130°	640.1	10.3
130°-140°	502.2	8.1
140°-150°	385.5	6.2
150°-160°	277.6	4.5
160°-170°	169.9	2.7
170°-180°	57.4	0.9
0°-30°	514.0	8.3
0°-40°	903.0	14.5
0°-60°	1753.7	28.2
0°-90°	2333.6	37.5
90°-120°	1860.4	29.9
90°-150°	3388.2	54.4
90°-180°	3893.0	62.5
0°-180°	6226.7	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°	4	11	31	15	15	4
95°	39	152	504	260	177	43
105°	139	210	851	1292	1205	147
115°	246	299	682	1360	1552	243
125°	343	384	620	1048	1236	304
135°	408	449	601	846	959	316
145°	474	504	593	721	778	297
155°	535	550	593	651	670	246
165°	578	585	593	616	624	163
175°	601	601	597	605	605	57
180°	601	601	601	601	601	

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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°	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4	15.3	15.3
92.5°	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5	76.6	73.5
95°	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4	260.0	250.8
97.5°	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6	600.1	582.6
100°	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0	842.7	821.8
102.5°	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4	1049.9	1032.0
105°	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8	1291.8	1282.2
107.5°	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5	1417.6	1419.9
110°	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6	1449.7	1459.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6	1429.2	1444.6
115°	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5	1359.5	1380.8
117.5°	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2	1263.2	1286.8
120°	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9	1198.3	1221.3
122.5°	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5	1133.3	1156.0
125°	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9	1047.5	1068.4
127.5°	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2	978.6	996.2
130°	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2	935.1	951.4
132.5°	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4	898.0	912.6
135°	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9	845.5	858.1
137.5°	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8	806.9	817.2
140°	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2	775.9	785.5
142.5°	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7	754.1	762.4
145°	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6	721.4	727.7
147.5°	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4	694.1	699.3
150°	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8	678.3	682.5
152.5°	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5	665.8	669.0
155°	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6	650.9	653.0
157.5°	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0	638.0	639.4
160°	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7	631.6	632.5
162.5°	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6	625.5	626.3
165°	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5	616.3	617.2
167.5°	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1	612.2	612.6
170°	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1	612.2	612.2
172.5°	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9	609.0	608.7
175°	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0	604.6	604.6
177.5°	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7	603.8	603.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6

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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°	15.3	15.3
92.5°	61.3	49.1
95°	213.9	176.9
97.5°	512.3	442.2
100°	738.2	654.6
102.5°	960.4	888.8
105°	1243.6	1205.1
107.5°	1429.2	1438.5
110°	1499.9	1540.0

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1506.2	1567.8
115°	1466.3	1551.8
117.5°	1381.6	1476.4
120°	1313.4	1405.4
122.5°	1246.9	1337.7
125°	1152.0	1235.8
127.5°	1066.9	1137.4
130°	1016.6	1081.8
132.5°	970.9	1029.4
135°	908.4	958.8
137.5°	858.4	899.6
140°	824.0	862.5
142.5°	795.5	828.7
145°	752.8	777.9
147.5°	720.1	740.8
150°	699.3	716.2
152.5°	681.7	694.5
155°	661.4	669.9
157.5°	645.5	651.4
160°	635.9	639.2
162.5°	629.6	632.8
165°	620.5	623.9
167.5°	614.0	615.4
170°	612.2	612.2
172.5°	607.5	606.2
175°	604.6	604.6
177.5°	602.0	600.6
180°	600.6	600.6

(END OF REPORT)