

Fortimo LED Strip X 1" Cuttable Modules and LED Strip HE LV6: Raising the Bar in Design Flexibility and Efficacy

In today's dynamic environment, speed and flexibility are essential...

> Anticipating project needs is difficult

Stocking less SKUS and separating in factory helps reduce inventory and forecasting risks

> Avoid mixing old and new production runs

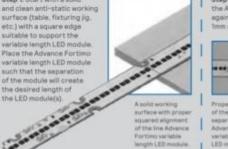
➤ Fewer SKUS means less chance of inconsistency in LED bins

> Simplified production

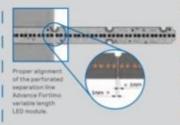
- → 4 ft modules enable streamlined assembly for
 4 ft. fixtures, with less wiring needed
- > Daisy chain on all models
- ➤ If shorter lengths such as 1 ft. or 2 ft. needed, simply follow the design in guide to separate to length needed.

Fortimo Variable Length Modules greatly simplify your luminaire production runs and enable the ability to react quickly to your customer's needs.

Permissible separation of variable length LED modules



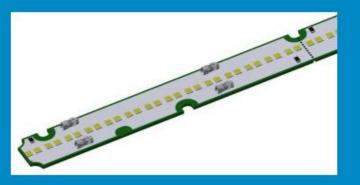
Step 2: Align the perforated separation line of the Advance Fortimo variable length LED module against the edge of the supported surface within 1mm of the perforated separation line as shown.



Step 3: Press the overhanging section of the variable length LED module down with pressure being applied as close as possible to the perforated separation line. Keep your fingers away from the LEDs as much as possible to avoid damage to the LEDs.



Anti-static gloved hands applying pressure for proper separation of the line Advance Fortimo variable length LED module.





LED Strip X – Inch by Inch Design Flexibility

Fortimo Strip X LV1 linear LED modules

- √ 47.5" variable length modules with break feature every 1" to allow
 architectural customers design flexibility at competitive price points
- ✓ High efficiency 90 CRI to enable superior color rendition in every application
- ✓ 2.5 SDCM color consistency for critical applications
- √ 5% efficiency improvement compared to LED Strip PR LV5 CRI90.

 Matching efficacy to CRI80 LED Strip PR LV5.
- ✓ Improved PCB and connector design over existing generations
- ✓ Pairs with CertaDrive X and Xitanium family of drivers





Fortimo Strip X LV1 LED modules

DESIGNED FOR PERFORMANCE

- ✓ High efficiency with 180 or greater LPW achievable.
- ✓ **2.5 SDCM** color consistency
- ✓ LM80 reports to support **DLC Premium** claims
- ✓ High quality energy efficient 2835 LEDs for indoor applications



DESIGNED FOR SIMPLICITY

- ✓ Breakable every 1" to support maximum SKU reduction and design flexibility.
- ✓ Single board **eliminates Vf matching** of different lengths.
- ✓ CRI90 on every SKU with affordability and performance
- ✓ **Daisy chain** up to 8 ft at nominal flux
- ✓ **Zhaga mechanical footprint** allows for seamless upgrades from existing LED Strip options

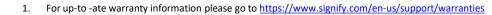


PERFECTLY PAIRED DRIVER & MODULE SYSTEM

- ✓ 5-year limited system warranty when paired with Advance Linear Driver Portfolio ¹
- ✓ Enabling cost competitive Architectural Luminaires









Performance Overview

Only 4 SKUs to stock

Commercial Name	12NC	Flux [lm]	Efficacy [LPW]
FO Strip X 47.5in 4000lm 927 LV1	9290 027 34713	3730	164
FO Strip X 47.5in 4000lm 930 LV1	9290 027 34813	3840	169
FO Strip X 47.5in 4000lm 935 LV1	9290 027 34913	3850	169
FO Strip X 47.5in 4000lm 940 LV1	9290 027 35013	4000	176

Tc=45C, I=700mA

- ➤ 2.5 SDCM Color consistency
- ➤ 90 CRI
- ➤ R9 >50
- ➤ Module is daisy chainable up to 8ft at nominal drive currents

High efficacy enables DLC compliant luminaires



Board Efficacy	164	LPW
Optical Efficiency	82%	
Driver Efficiency	85%	
Luminaire Efficacy	114	LPW

DLC V5.1 Premium - Troffer	125	LPW
2700K Allowance	5%	
CRI>90, R9>50 Allowance	5%	
Premium Efficacy w/Allowances	113	LPW



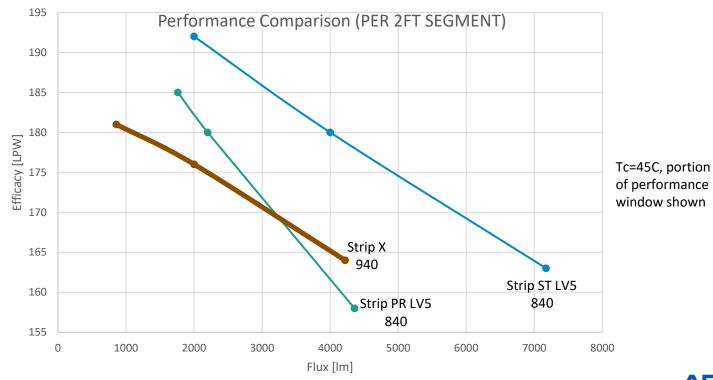
Performance Comparison

FO Strip X 47.5in 4000lm 940 LV1

Parameter	Min	Тур	Max	Unit
Luminous flux	3700	4000	4300	Im
Module efficacy	158	176		Im/W
Correlated color temperature (CCT)		4000		K
Color consistency			2.5	SDCM
CRI	90			
R9	50			

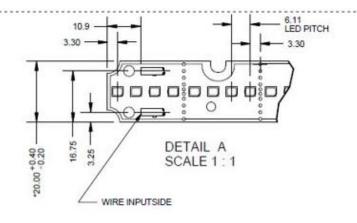
Operation point	940	lm	lm/W
80% I-nom 560mA	Tc 25 °C	3300	182
	Tc-nom 45 °C	3220	179
	Tc-life 85 °C	3000	169
I-nom 700mA	Tc 25 °C	4110	180
	Tc-nom 45 °C	4000	176
	Tc-life 85 °C	3730	167
I-life 2000mA	Tc 25 °C	11080	162
	Tc-nom 45 °C	10780	159
	Tc-life 85 °C	10020	151

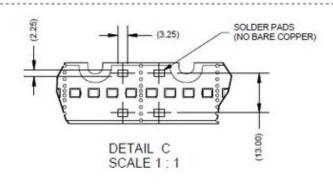
- > CRI90 with CRI80 performance
- ➤ No need to compromise
- ➤ Overdrive up to 2500lm/ft

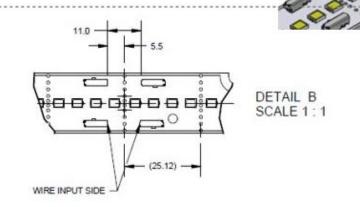


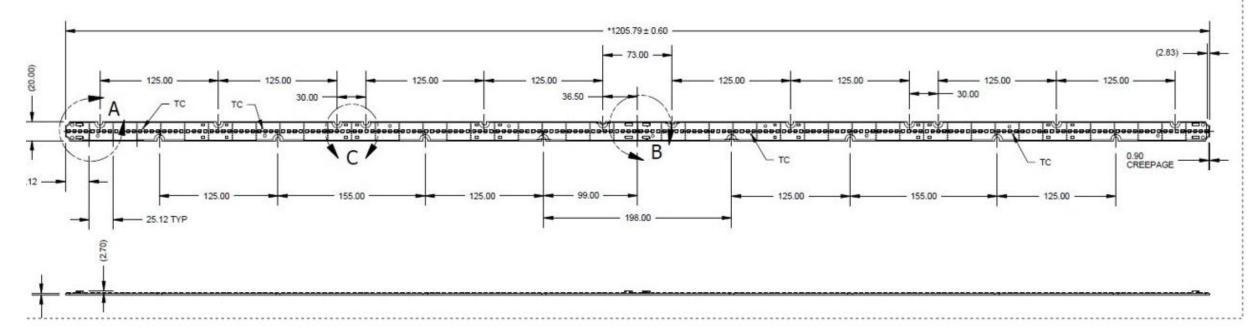


Mechanical Drawing









Fortimo LED Strip HE LV6- Highest LPW Efficiency



Key Features :

· 1.6 mm substrate to support Industrial and Indoor applications

· Daisy-chainable: connectors on both ends

Lengths: 22 in, 44 in, 47.5 in

Zhaga board form factor – LED strip drop in

Nominal Flux Level: TBD

Efficiency: (>200 LPW)

CRI/CCT: 835-850

DLC premium LM80

3 SDCM

VF: 38-39V

8kV surge

· Connecter: standard connector

Tc Life = TBD

· Limited Warranty: 5 years

Fortimo LED Strip HE offers lumens per watt efficiency reaching **over 200 LPW**. This product utilizes Flip Chip technology. Ideal for **Industrial** applications as well as **Indoor Linear** applications which demand ultra high LPW efficiency.

ССТ	Length	LED count	Breakable	PCB Material	χf	Flux	LPW
830		84					
835	44 in	84	22 in		38.1	4400	205
840	44 111	84	22 111		30.1	4400	203
850		84					
830		112					
835	44 in	112		EPOXY 38.9	38.9	8000	196
840	44 111	112		LFOXI	30.3		
850		112	112 every 6"				
830		112	everyo				
835	47.5 in	in 112		38.9	8000	196	
840		112			30.3	8000	150
850		112					
835		70					
840	22 in	70			38.5	5000	193
850	70	NO	MCPCB				
835		98	NO	MICECD			
840	22 in	98			38.1	6000	197
850		98					



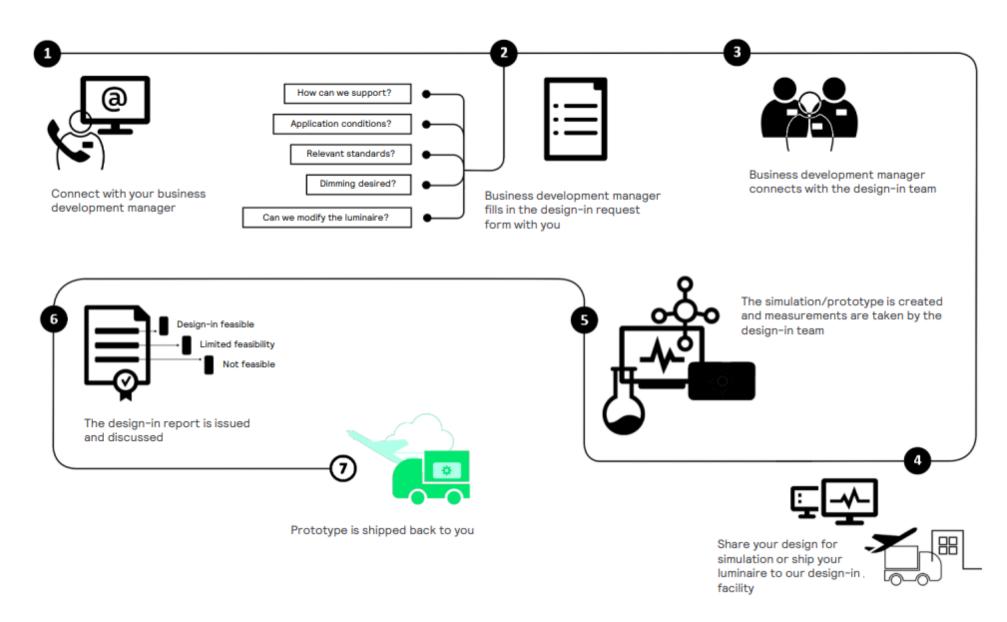
Performance Comparison



- > Premium efficacy
- > Flip chip technology
- ➤ Ideal for 4ft or compact fixtures



The design-in process



Signify