



Fortimo Strip PR LV6

Advance Fortimo LED Strip PR LV6 modules are an ideal choice for high-performance architectural and indoor luminaires. Designed for high efficiency, offered in variable lengths, allowing for daisy chaining, and incorporating tight Vf binning to create a high-quality base for your luminaire designs.

Key features and benefits

Features:

- High flux density of up to 2000 lm per foot
- Narrow width of only 20mm
- High lumen maintenance (TM21) of L90 36,000 hours
- 3 SDCM color consistency
- Tight Vf binning enables longer daisy chaining

Benefits:

- High energy efficacy and long lifetime provide optimized total cost of ownership
- Slim width and Zhaga compliant form factor provide excellent design-in options and assembly
- High quality and warm color temperatures of light enables new application areas like hospitality
- 5-year limited system warranty with Advance Xitanium LED drivers
- Specifications enable DLC Premium category

Application:

- Retail
- Hospitality
- Office

Ordering data

Commercial product name	12NC	Box quantity
FO Strip PR 11in 1100lm 927 LV6	9290 027 52913	160
FO Strip PR 11in 1100lm 930 LV6	9290 027 53013	160
FO Strip PR 11in 1100lm 935 LV6	9290 027 53113	160
FO Strip PR 11in 1100lm 940 LV6	9290 027 53213	160

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
FO Strip PR 11in 1100lm 9xx LV6	154	360	400	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	45	85	90	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

Suggested maximum current at elevated ambient

Setting	1	2	3	4	Unit
Luminaire maximum ambient	35	45	55	65	°C
Suggested maximum current*	360	315	250	180	mA

* Drive current that may be possible at the reference external ambient temperature. The maximum suggested current given is for a typical non-lensed luminaire design with good thermal transfer capability. Use of a lensed luminaire or luminaires with non-optimal thermal characteristics will require a further current reduction to meet the same maximum ambient temperature. The current suggestion is based on the module T_c-life and thermal testing must be used to verify T_c-life is never exceeded for your specific luminaire. It may be necessary to adjust the final current value in order to meet the T_c-life rating of the module.

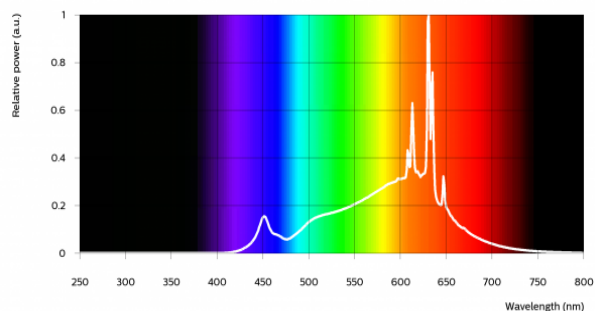
Optical characteristics – table per color (CCT)

FO Strip PR 11in 1100lm 927 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	910	980	1050	lm
Efficacy	150	167		lm/W
Correlated color temperature (CCT)		2700		K
Color consistency			3	SDCM
CRI	90			
R9	50			

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ for the efficacy data. Measurement precision for color coordinates ± 0.005 . Measurement precision for CRI ± 1.5 and R9 ± 3 .

Operation point	927	lm	lm/W
80% I-nom 123mA	Tc 25 °C	810	173
	Tc-nom 45 °C	790	171
	Tc-life 85 °C	740	163
I-nom 154mA	Tc 25 °C	1000	170
	Tc-nom 45 °C	980	167
	Tc-life 85 °C	920	159
I-life 360mA	Tc 25 °C	2220	150
	Tc-nom 45 °C	2160	147
	Tc-life 85 °C	2020	140

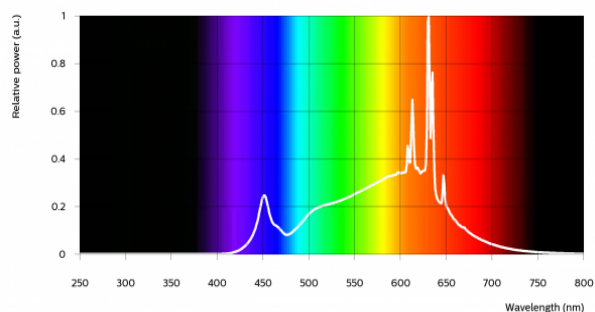


FO Strip PR 11in 1100lm 930 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	960	1040	1120	lm
Efficacy	159	177		lm/W
Correlated color temperature (CCT)		3000		K
Color consistency			3	SDCM
CRI	90			
R9	50			

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ for the efficacy data. Measurement precision for color coordinates ± 0.005 . Measurement precision for CRI ± 1.5 and R9 ± 3 .

Operation point	930	lm	lm/W
80% I-nom 123mA	Tc 25 °C	860	184
	Tc-nom 45 °C	840	181
	Tc-life 85 °C	790	173
I-nom 154mA	Tc 25 °C	1060	180
	Tc-nom 45 °C	1040	177
	Tc-life 85 °C	980	169
I-life 360mA	Tc 25 °C	2350	159
	Tc-nom 45 °C	2290	156
	Tc-life 85 °C	2150	149

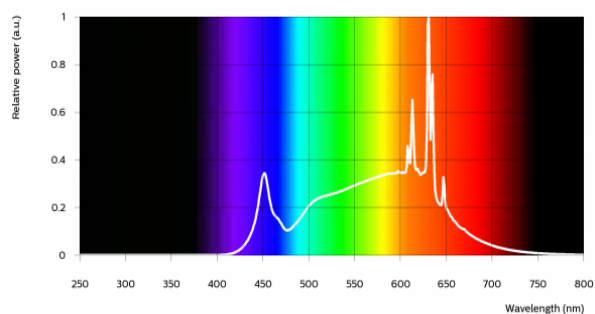


FO Strip PR 11in 1100lm 935 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	970	1050	1130	lm
Efficacy	161	179		lm/W
Correlated color temperature (CCT)		3500		K
Color consistency			3	SDCM
CRI	90			
R9	50			

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ for the efficacy data. Measurement precision for color coordinates ± 0.005 . Measurement precision for CRI ± 1.5 and R9 ± 3 .

Operation point	935	lm	lm/W
80% I-nom 123mA	Tc 25 °C	870	186
	Tc-nom 45 °C	850	183
	Tc-life 85 °C	790	174
I-nom 154mA	Tc 25 °C	1080	182
	Tc-nom 45 °C	1050	179
	Tc-life 85 °C	980	170
I-life 360mA	Tc 25 °C	2380	161
	Tc-nom 45 °C	2310	158
	Tc-life 85 °C	2160	150

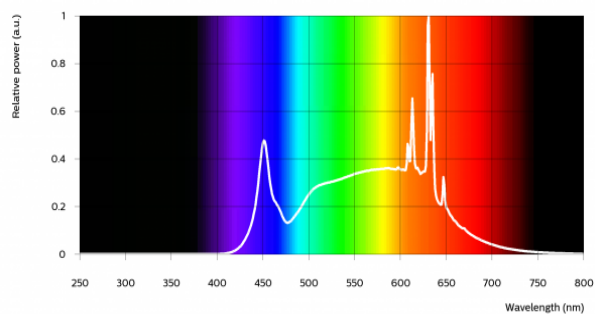


FO Strip PR 11in 1100lm 940 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	1000	1080	1160	lm
Efficacy	165	184		lm/W
Correlated color temperature (CCT)		4000		K
Color consistency			3	SDCM
CRI	90			
R9	50			

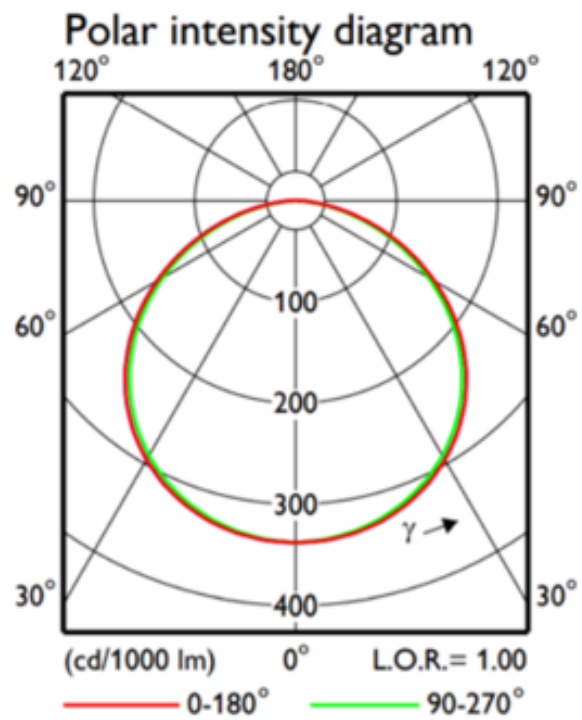
Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ for the efficacy data. Measurement precision for color coordinates ± 0.005 . Measurement precision for CRI ± 1.5 and R9 ± 3 .

Operation point	940	lm	lm/W
80% I-nom 123mA	Tc 25 °C	900	192
	Tc-nom 45 °C	870	188
	Tc-life 85 °C	820	179
I-nom 154mA	Tc 25 °C	1110	188
	Tc-nom 45 °C	1080	184
	Tc-life 85 °C	1010	175
I-life 360mA	Tc 25 °C	2450	166
	Tc-nom 45 °C	2380	162
	Tc-life 85 °C	2220	154



Beam shape

The LED module has a Lambertian light distribution.



Electrical characteristics

Parameter	Min	Typ	Max	Unit
Forward voltage	37.8	38.1	38.8	V
Power consumption		5.87		W
Number of modules in series per chain			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

System chain limits for Same Length modules

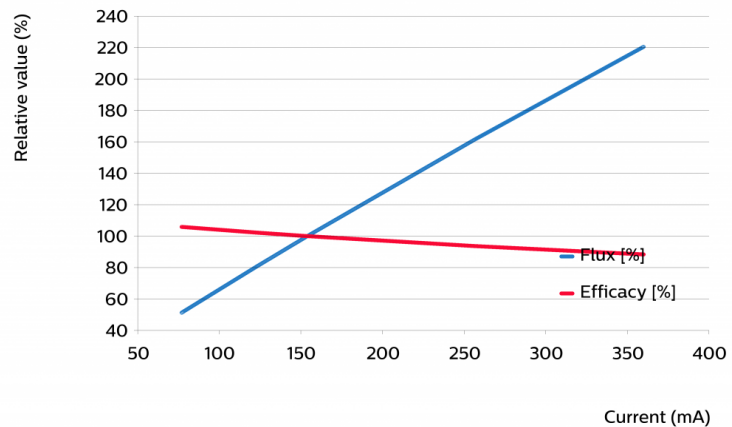
Total length (in)	Total current limit (mA)
44	1440
66	2060
88	1540

Please review the design-in guide or contact the Design-in team for further information.

Tuning information

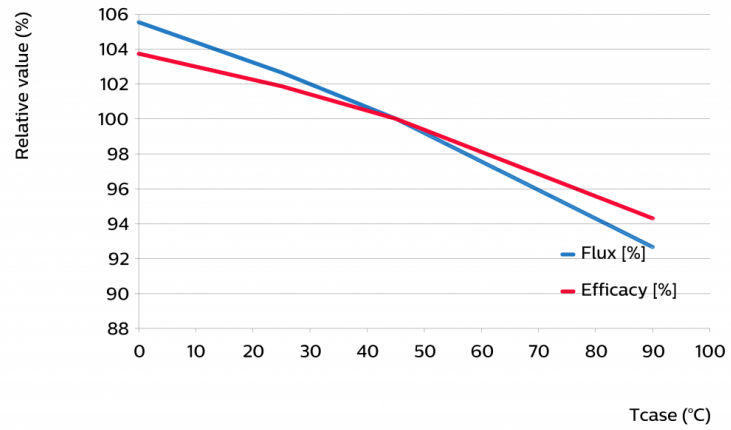
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
360	220	88
257	162	94
154	100	100
123	81	102
77	51	106



Flux and efficacy versus temperature at Tc (at I nominal)

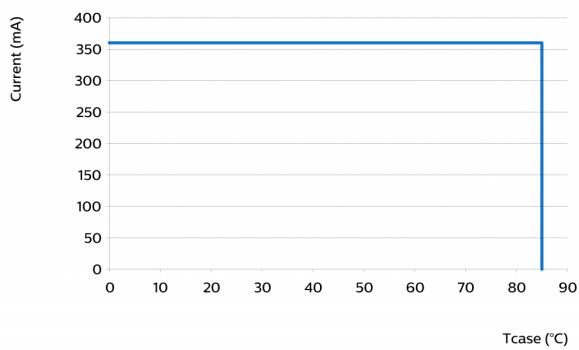
Tc [°C]	Flux [%]	Efficacy [%]
90	93	94
45	100	100
25	103	102
0	106	104



Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70	L80	L90
		B50	B50	B50
80% I-nom 123mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36
I-nom 154mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36
I-life 360mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36

Performance Window



Thermal switching table

Warranted number of full thermal product cycles at 25°C ambient temperature

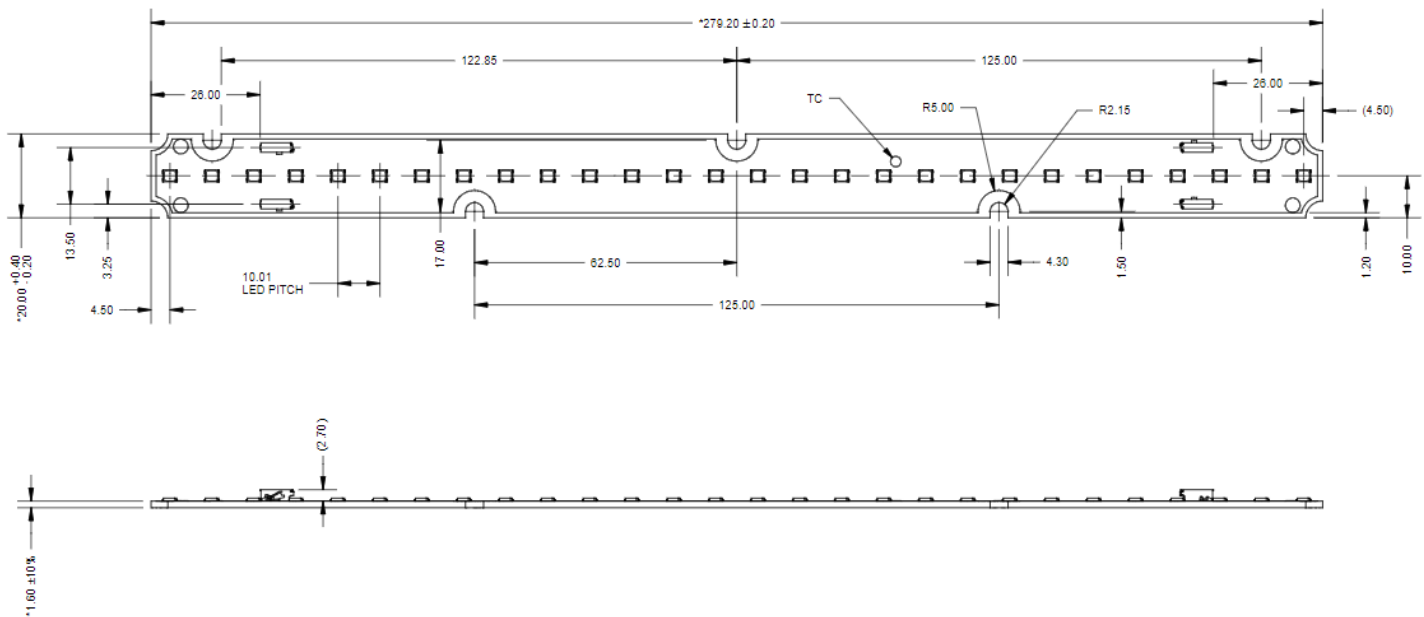
Case Temperature - Tc [°C]	Amount of Cycles
45 (or less)	>100,000
55	>100,000
65	>100,000
75	77,000
85	38,000
90	26,000

Wiring

Specification item	Value	Unit	Condition
Input wire cross-section	0.25...0.75	mm ²	solid, stranded
	18...24	AWG	solid, stranded
Input wire strip length	7.5...9.5	mm	

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	278.9	279.2	279.5	mm
Width	19.8	20	20.2	mm
Height PCB	1.4	1.6	1.8	mm
Height total		4.3		mm
Warpage (IPC-TM-650)			0.75	%



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		400	mA
Case temperature (Tc-max)		90	°C
ESD (direct contact)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-40		°C

Surge protection of the module must be provided by the driver or other components. Advance Xitanium and Certadrive drivers have built in protection circuitry and will protect the module up to the specified driver surge rating. When using third party drivers testing or confirmation from manufacturer is suggested to ensure adequate module protection.

Application information

Certificates and Standards

UL 8750

Environmental

RoHS/REACH

Application

IP rating	No IP rating
Overheating protection	No protection
Luminaire class ANSI	UL Class 2
Dimming	Yes

There cannot be any ice/fog/mist on any part of the module surface during the application at -40°C.

Notes

View limited warranty at www.signify.com/warranties for details and restrictions.



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