



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 44in 4400lm 830 LV6	9290 027 54913	120
FO Strip PR 44in 4400lm 835 LV6	9290 027 55013	120
FO Strip PR 44in 4400lm 840 LV6	9290 027 55113	120
FO Strip PR 44in 4400lm 850 LV6	9290 027 55213	120

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
FO Strip PR 44in 4400lm 8xx LV6	616	1440	1600	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*	1440	1245	985	725	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.

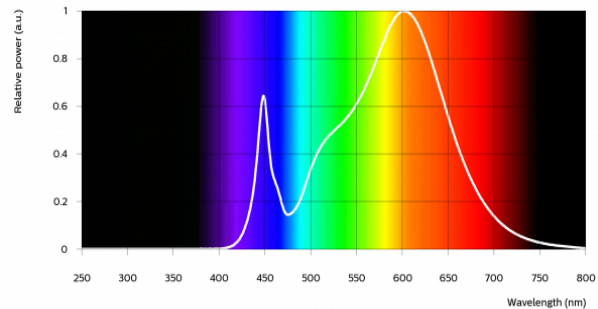
Optical characteristics - table per color (CCT)

FO Strip PR 44in 4400lm 830 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	3920	4240	4560	lm
Efficacy	162	181		lm/W
Correlated color temperature (CCT)		3000		K
Color consistency			3	SDCM
CRI	80			
R9	0			

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	830	lm	lm/W
80% I-nom 493mA	Tc 25 °C	3520	188
	Tc-nom 45 °C	3430	185
	Tc-life 85 °C	3220	176
I-nom 616mA	Tc 25 °C	4350	184
	Tc-nom 45 °C	4240	181
	Tc-life 85 °C	3980	173
I-life 1440mA	Tc 25 °C	9520	165
	Tc-nom 45 °C	9270	162
	Tc-life 85 °C	8680	154

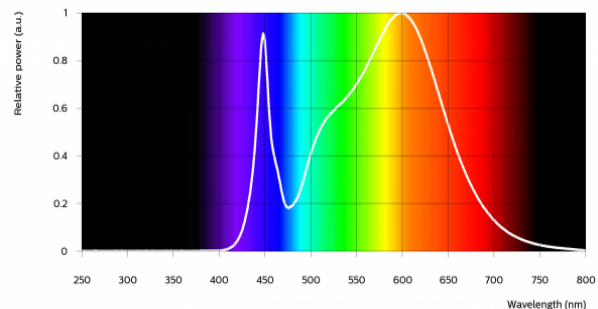


FO Strip PR 44in 4400lm 835 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	4030	4360	4690	lm
Efficacy	167	186		lm/W
Correlated color temperature (CCT)		3500		K
Color consistency			3	SDCM
CRI	80			
R9	0			

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	835	lm	lm/W
80% I-nom 493mA	Tc 25 °C	3620	194
	Tc-nom 45 °C	3530	190
	Tc-life 85 °C	3310	181
I-nom 616mA	Tc 25 °C	4480	190
	Tc-nom 45 °C	4360	186
	Tc-life 85 °C	4090	177
I-life 1440mA	Tc 25 °C	9830	170
	Tc-nom 45 °C	9560	166
	Tc-life 85 °C	8950	158

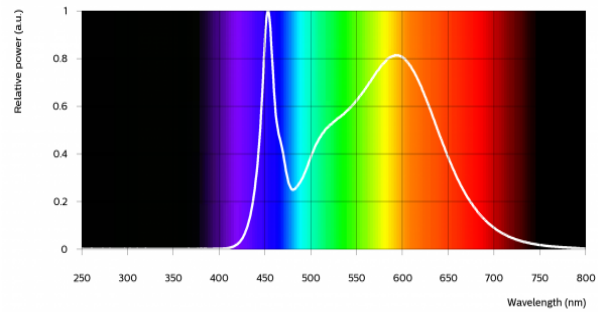


FO Strip PR 44in 4400lm 840 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	4150	4490	4830	lm
Efficacy	172	192		lm/W
Correlated color temperature (CCT)		4000		K
Color consistency			3	SDCM
CRI	80			
R9	0			

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	840	lm	lm/W
80% I-nom 493mA	Tc 25 °C	3730	200
	Tc-nom 45 °C	3630	196
	Tc-life 85 °C	3410	186
I-nom 616mA	Tc 25 °C	4610	196
	Tc-nom 45 °C	4490	192
	Tc-life 85 °C	4210	183
I-life 1440mA	Tc 25 °C	10120	175
	Tc-nom 45 °C	9850	171
	Tc-life 85 °C	9220	163

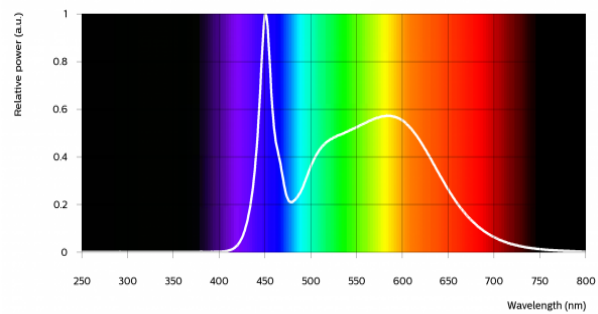


FO Strip PR 44in 4400lm 850 LV6

Parameter	Min	Typ	Max	Unit
Luminous flux	4160	4500	4840	lm
Efficacy	172	192		lm/W
Correlated color temperature (CCT)		5000		K
Color consistency			3	SDCM
CRI	80			
R9	0			

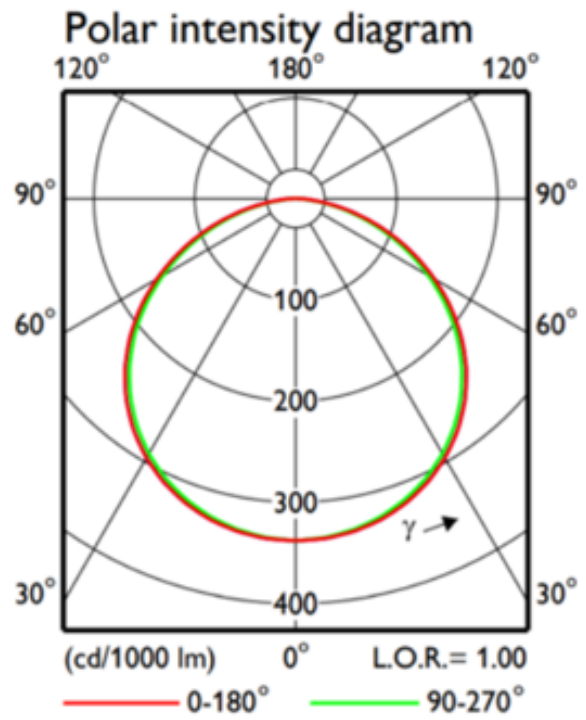
Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ for the efficacy data. Measurement precision for color coordinates ± 0.005 . Measurement precision for CRI ± 1.5 and R9 ± 3 .

Operation point	850	lm	lm/W
80% I-nom 493mA	Tc 25 °C	3730	199
	Tc-nom 45 °C	3640	196
	Tc-life 85 °C	3410	187
I-nom 616mA	Tc 25 °C	4610	196
	Tc-nom 45 °C	4500	192
	Tc-life 85 °C	4220	183
I-life 1440mA	Tc 25 °C	10180	176
	Tc-nom 45 °C	9920	173
	Tc-life 85 °C	9270	164



Beam shape

The LED module has a Lambertian light distribution.



Electrical characteristics

Parameter	Min	Typ	Max	Unit
Forward voltage	37.5	38.0	38.5	V
Power consumption		23.4		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

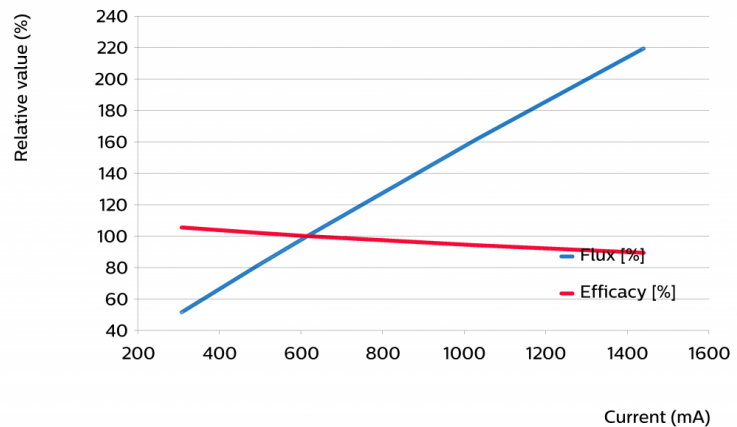
Total length (in)	Total current limit (mA)
88	1540
110	1250
176	780

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

Tuning information

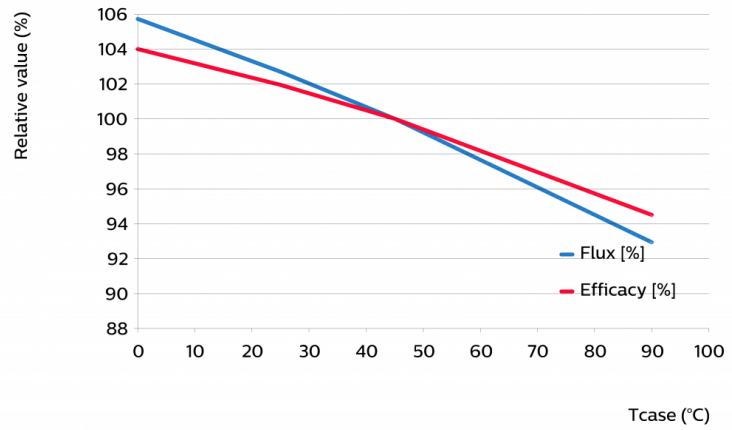
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1440	219	89
1028	161	94
616	100	100
493	81	102
308	51	105



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

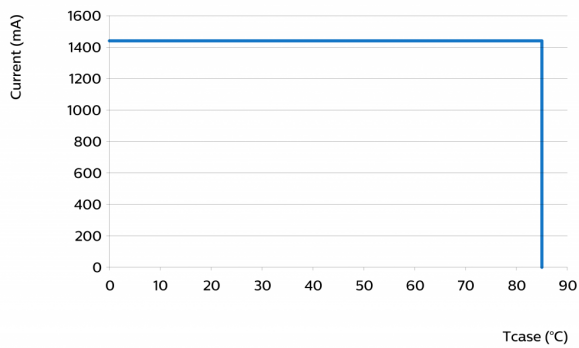
Tc [°C]	Flux [%]	Efficacy [%]
90	93	94
45	100	100
25	103	102
0	106	104



Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70	L80	L90
		B50	B50	B50
80% I-nom 493mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36
I-nom 616mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36
I-life 1440mA	Ts nom 45°C	>60	>60	>36
	Ts 70°C	>60	>60	>36
	Ts-l-life 85°C	>60	>60	>36

Performance Window



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		1600	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.

