

LED-HD-FL-2835-1000 TECHNICAL MANUAL

Issue: v1.1
v1.2
v1.3

Date: 12/06/2010 PA
21/03/2017 DK
21/05/2019 SA

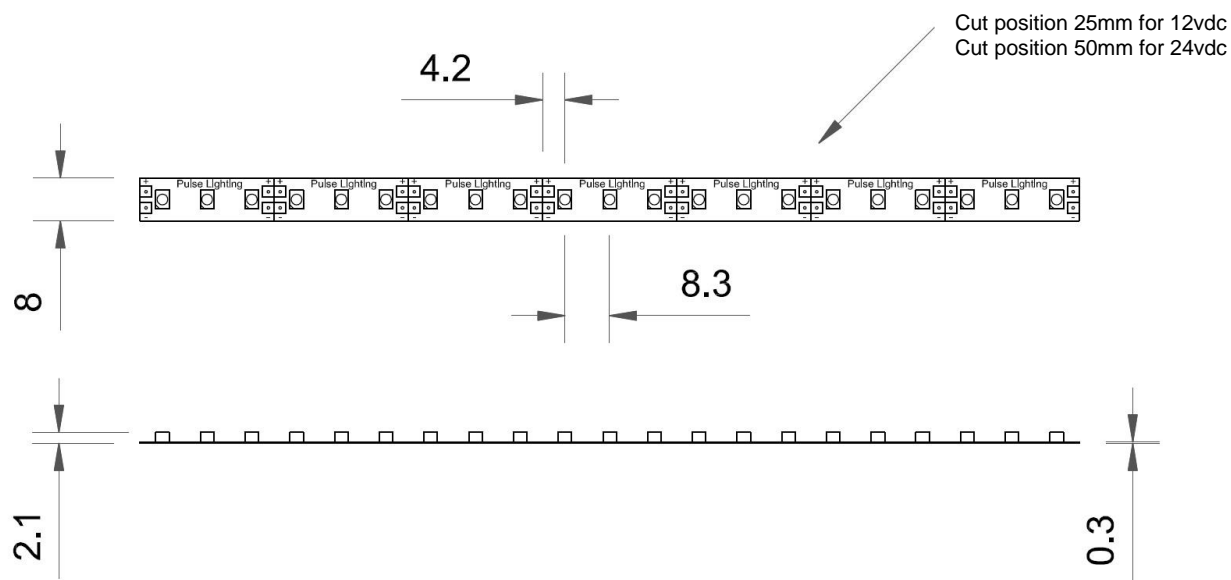


RoHS

INDEX

1. DIMENSIONS
2. OPTICAL DATA
3. ELECTRICAL RATINGS
4. LIFE SPAN DATA & FLAME RESISTANCE
5. WARRANTY AND LIMITATION

Dimensions



Notes: All dimensions are in millimetres. Tolerance is $\pm 0.25\text{mm}$ Drawing is not to scale

Drawing for internal use only

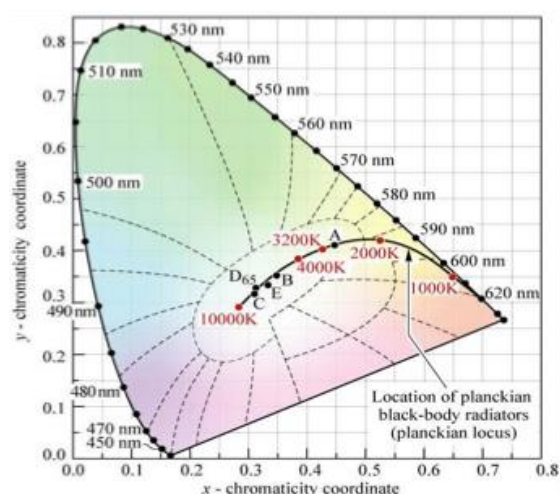
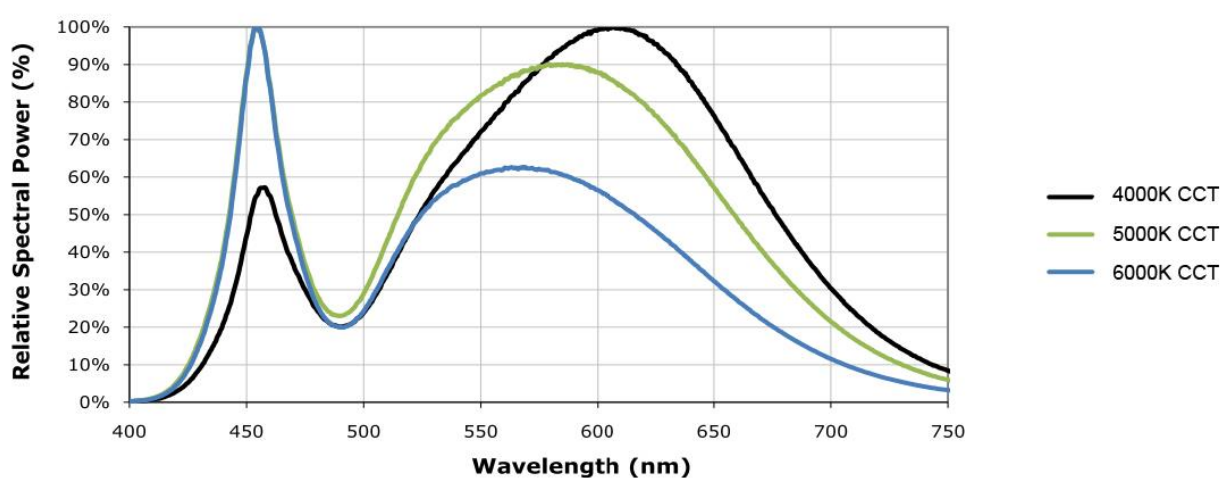
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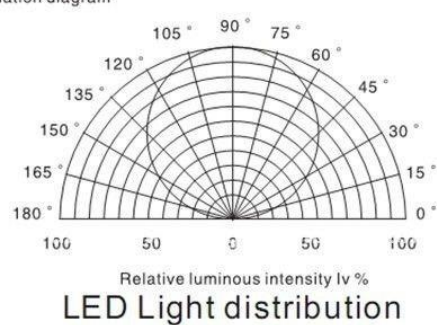
OPTICAL DATA

Electro-optical characteristics (ratings @ Ta = 25°C)					
Parameter	Symbol	Min	Typ	Max	Unit
Luminous Flux	Im	-	270	280	Lm
Reverse Current	IF	-	10	15	μA
Viewing Angle	2 θ1/2	-	120	-	Degrees

Led has a colour rendering index of 95 +



Radiation diagram



LED USED ON THIS PRODUCT ARE SELECTED FROM CLOSE BINS TO ALLOW FOR CLOSE COLOUR MATCHING

ELECTRICAL RATINGS

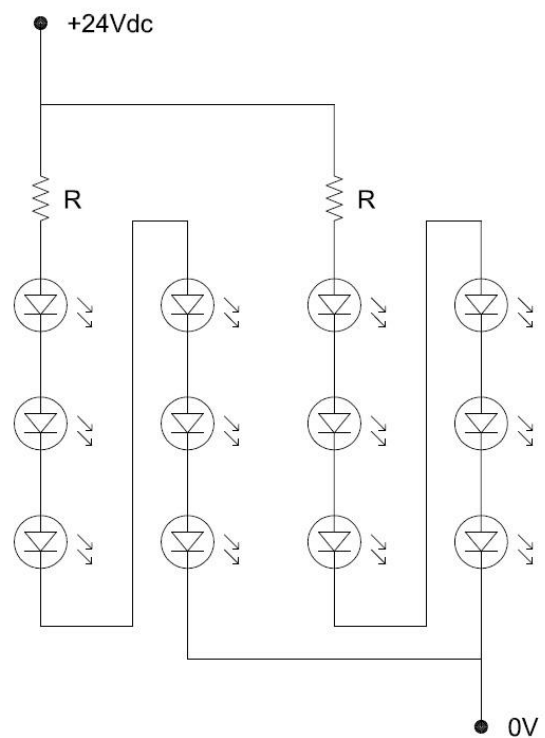
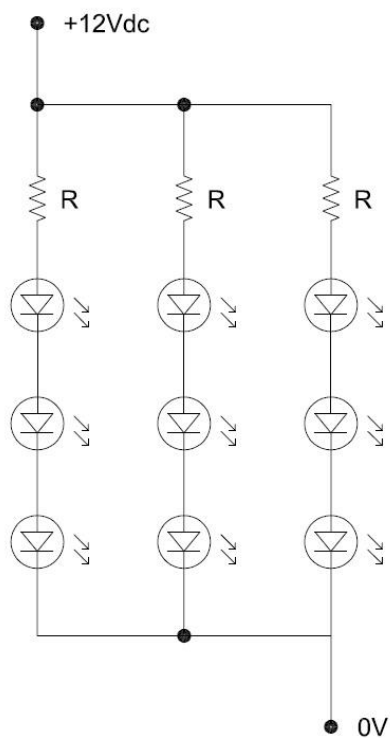
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Power Dissipation/Module	Pd	4.25	W
Continuous Forward Current @ 12 Vdc	If	360	mA
Continuous Forward Current @ 24 Vdc	If	180	mA
Operating Temperature	Topr	-5 to +40	°C

*All rating are representative of a 450mm strip

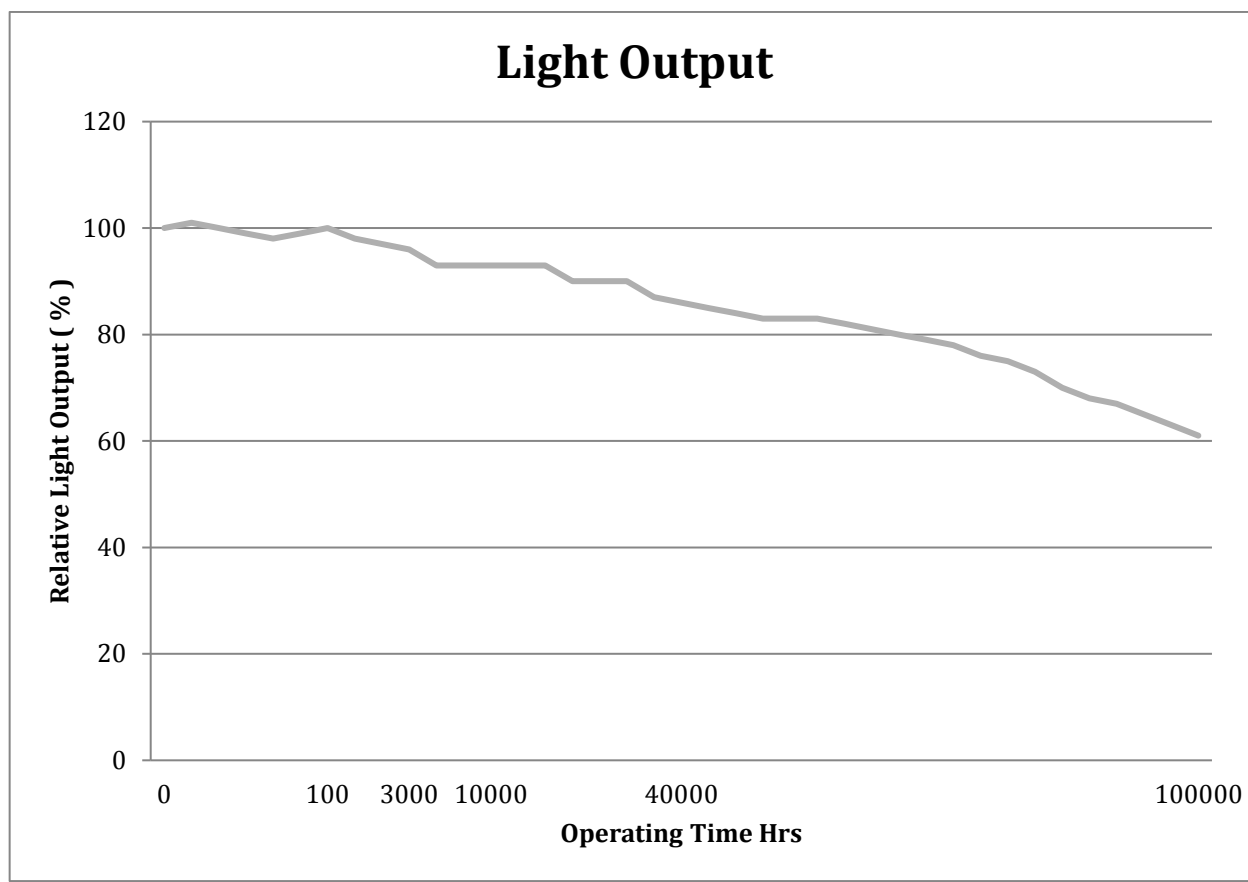
Current Control

Led chips are regulated by an onboard current limiting resistor



Life Time data

Room Temperature Life Test ($I_f=30\text{mA}$, $T_a=25^\circ\text{C}$)



1. The above I_v degradation curve is a statistical average based on an experiment ran over 1000 hours at room temperature. Operation life of up to 100,000 hours is then calculated from these results. This information is to be used as a reference only and is not guaranteed.
2. Several other die types were grouped together in the graph due to their similarity in wafer technology and I_v degradation characteristics

Flame Resistance

Test Item	Test Condition	Specification
Flame Resistance	UL94	V0

Warranty

Warranty Coverage

Pulse lighting warrants its products and parts against defects in materials and workmanship from the date of purchase for the warrant period, as long as it is used in normal conditions. During this period, Pulse lighting will repair or replace defective products or parts without charge. Pulse lighting's obligations under this warranty are limited to return to base replacement product or replacement parts determined to be defective or the refund of the purchase price. Pulse Lighting shall under no circumstance be liable for any special, indirect, incidental or consequential damages or loss owing to failure of the product.

What the warranty does not cover:

Defective materials and workmanship after warranty period has expired.

Damage caused by followings

- Accident, abuse, misuse, misapplication, natural disaster
- Repair or attempted repair by anyone not authorized by Pulse - Using improper power supply- inappropriate use not in accordance with instruction.

Pulse Lighting Part Number HD-FL5000-08 FLEXIBLE LED STRIP

Product Description HIGH DENSITY FLEXIBLE LED STRIP

We declare that, unless otherwise stated, the product aforementioned has been designed and manufactured and tested in accordance with the following EEC directives, Safety And EMC standards listed below

EN 60598-1 Luminaires - General requirements
EN 60598-2-2 Luminaires - Recessed
EN 60598-2-22 Luminaires - Emergency
EN 61347-1 Lamp controlgear - Part 1: General and safety requirements
EN 61347-2-13 Lamp controlgear - Part 2-13 : Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
EN 55015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547 Equipment for general lighting purposes - EMC immunity requirements
EN 61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2: Limits - for harmonic current emissions
EN 62471 Photobiological safety of lamps and lamp systems
2002/96/EC Waste Electrical & Electronic Equipment (WEEE)
2011/65/EU Restriction of the use of certain Hazardous Substances in EEE (RoHS)
(EC) No 1907/2006 The Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Technical File Complied By : Pulse Lighting LTD

We further certify that all components and test data are traceable back through the supply chain to the original source of manufacture.

Signed:



Date: 21/05/2019

Name: David Killingley

Position: Technical Director



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