



DATA SHEET

GLV91RS4171 Series

Part of the simpleLED® Program

simpleLED GLV91RS4171 SERIES

The light engine series consist of 48 medium power LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications.

FEATURES & BENEFITS

- 3 year manufacturer (GL-Lighting) warranty
- High-reliability LED sources
- Wide operational temperature range
- Wide range of drive current
- Multiple CCT's available
- Short lead time
- CE certified

TYPICAL APPLICATIONS

- Cove Lighting
- Poster Box
- Wall Wash



GLV91RS4171

Note: All specifications are subject to change without notice.

simpleLED GLV91RS4171 WARM WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4
Finish		White
Size		L 284mm x W 17mm
Source Type		Mid Power LED
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
Thermal Resistance (Junction to solder point)		Rth < 20 K/W
Rated Lumen Tp=25°C @700mA		1360lm
CCT		3000k ANSI
CRI		Min. 80
Tp Maximum Temperature		80 °C

* Above values are at 700mA driving current

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	17.28	18.51	20.36
Power Consumption @700mA (W)	12.1	12.96	14.25
Efficacy (lm/Watt) @700mA, Tp=25°C	95	104	112

Driving Current	Absolute Max.	1200mA
	For LM80	<=800mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-30	+80

Note: All specifications are subject to change without notice.

simpleLED GLV91RS4171 NEUTRAL WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4
Finish		White
Size		L 284mm x W 17mm
Source Type		Mid Power LED
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
Thermal Resistance (Junction to solder point)		Rth < 20 K/W
Rated Lumen Tp=25°C @700mA		1510lm
CCT		4000k ANSI
CRI		Min. 80
Tp Maximum Temperature		80 °C

* Above values are at 700mA driving current

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	17.28	18.51	20.36
Power Consumption @700mA (W)	12.1	12.96	14.25
Efficacy (lm/Watt) @700mA, Tp=25°C	105	116	124

Driving Current	Absolute Max.	1200mA
	For LM80	<=800mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-30	+80

Note: All specifications are subject to change without notice.

simpleLED GLV91RS4171 COOL WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4
Finish		White
Size		L 284mm x W 17mm
Source Type		Mid Power LED
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
Thermal Resistance (Junction to solder point)		Rth < 20 K/W
Rated Lumen Tp=25°C @700mA		1535m
CCT		5000k
CRI		Min. 80
Tp Maximum Temperature		80 °C

* Above values are at 700mA driving current

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	17.28	18.51	20.36
Power Consumption @700mA (W)	12.1	12.96	14.25
Efficacy (lm/Watt) @700mA, Tp=25°C	107	118	126

Driving Current	Absolute Max.	1200mA
	For LM80	<=800mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-30	+80

Note: All specifications are subject to change without notice.

simpleLED GLV91RS4171 COOL WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4
Finish		White
Size		L 284mm x W 17mm
Source Type		Mid Power LED
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
Thermal Resistance (Junction to solder point)		Rth < 20 K/W
Rated Lumen Tp=25°C @700mA		1585lm
CCT		5700k
CRI		Min. 80
Tp Maximum Temperature		80 °C

* Above values are at 700mA driving current

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	17.28	18.51	20.36
Power Consumption @700mA (W)	12.1	12.96	14.25
Efficacy (lm/Watt) @700mA, Tp=25°C	111	122	130

Driving Current	Absolute Max.	1200mA
	For LM80	<=800mA

ENVIRONMENTAL CHARACTERISTICS

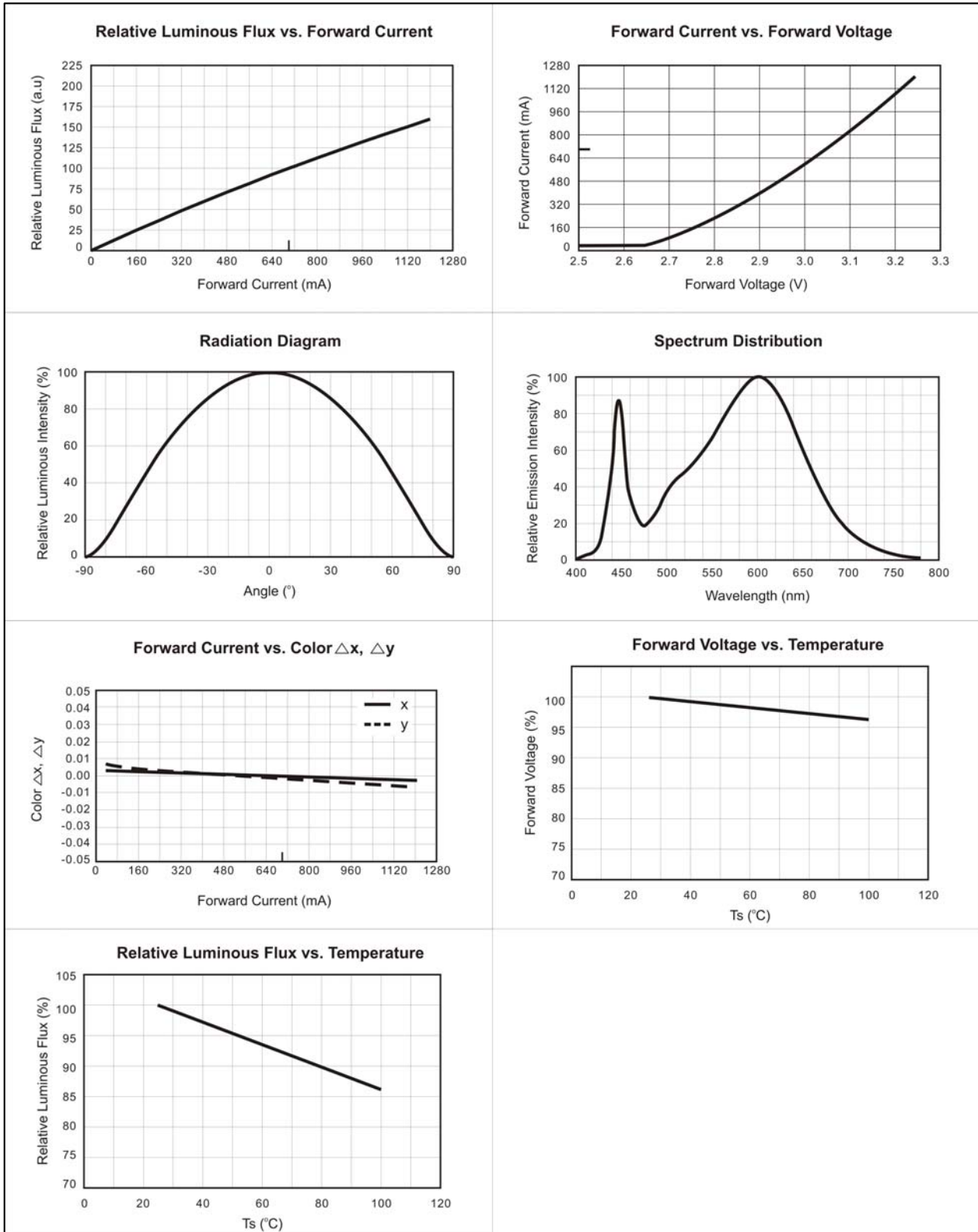
PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-30	+80

Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH – WARM WHITE

*These graphs show typical values.

(Ts:25°C)

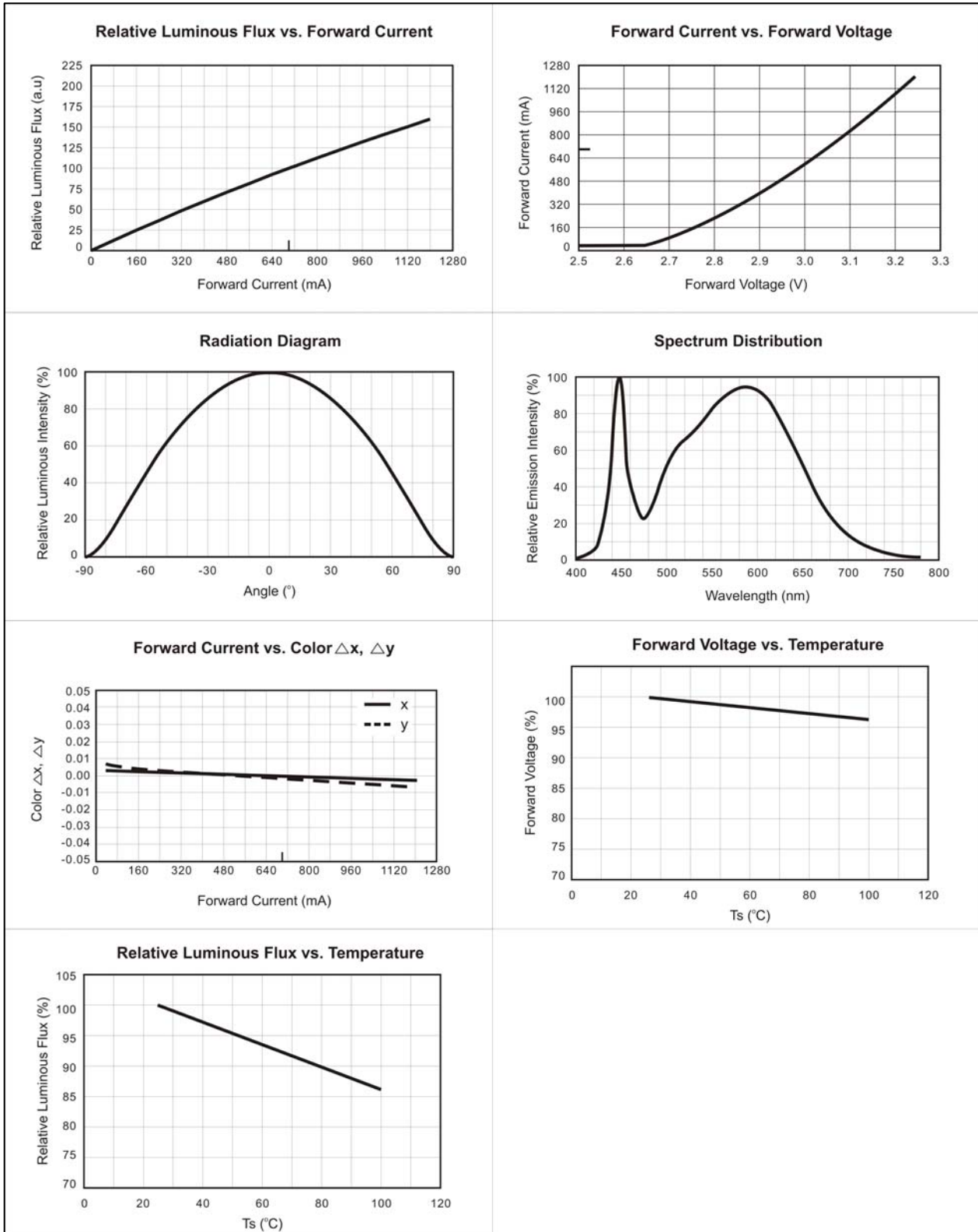


Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH – NEUTRAL WHITE

*These graphs show typical values.

(Ts:25°C)

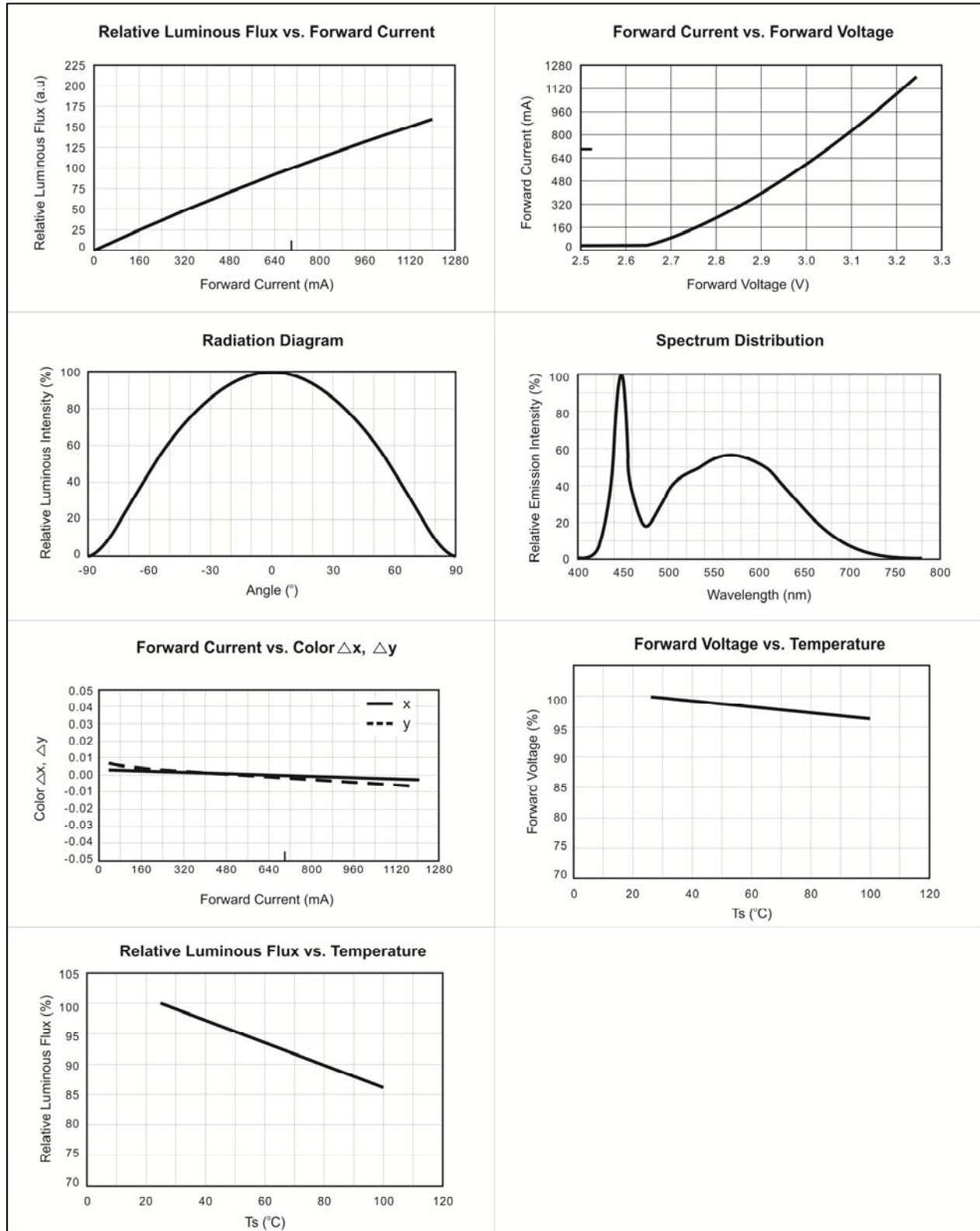


Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH – COOL WHITE – S50

*These graphs show typical values.

(Ts:25°C)

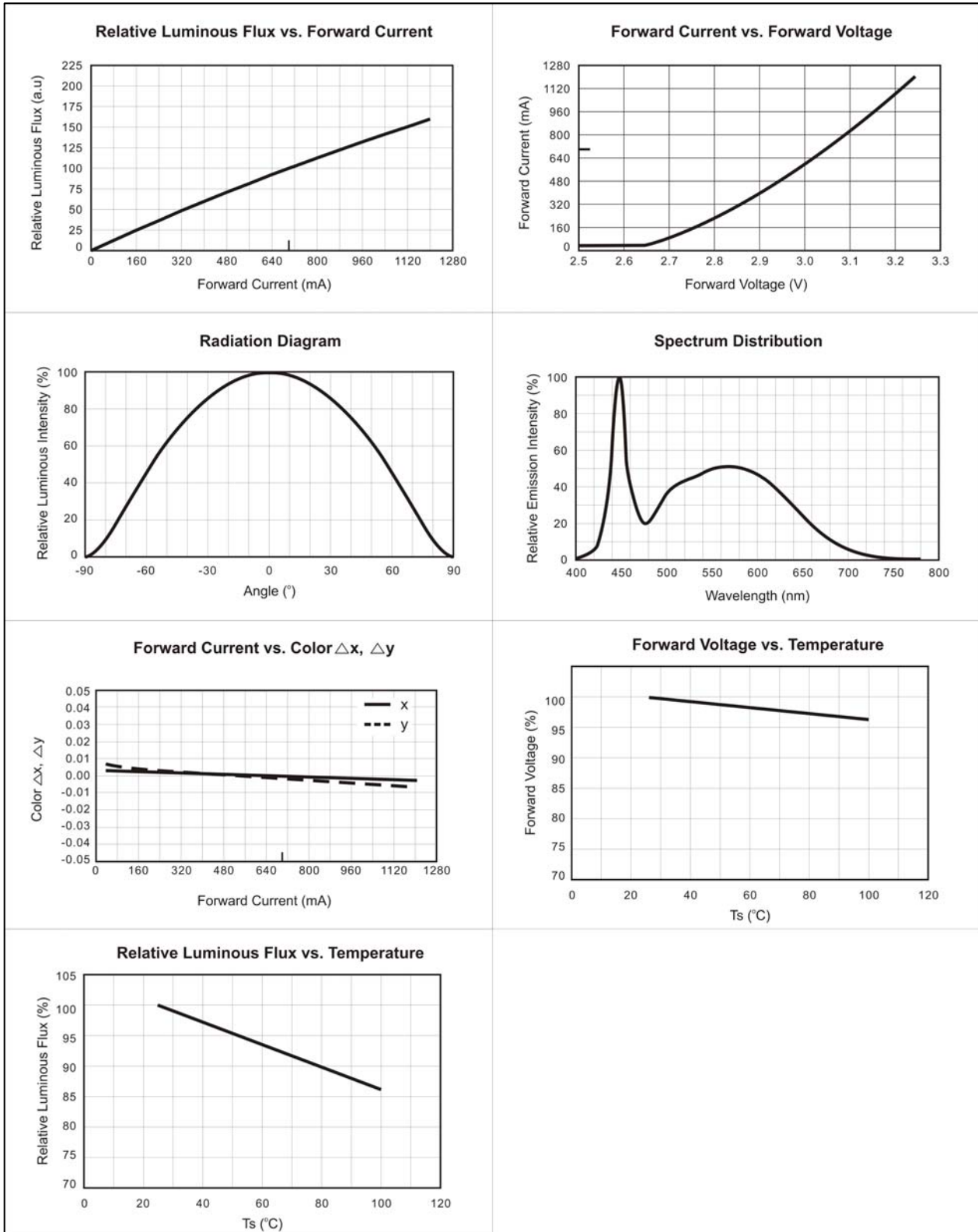


Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH – COOL WHITE – S57

*These graphs show typical values.

(Ts:25°C)

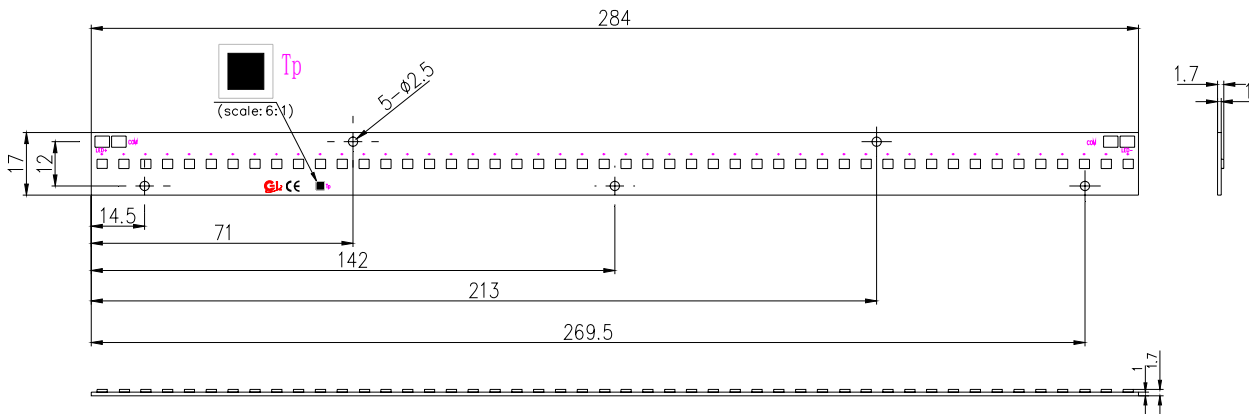


Note: All specifications are subject to change without notice.

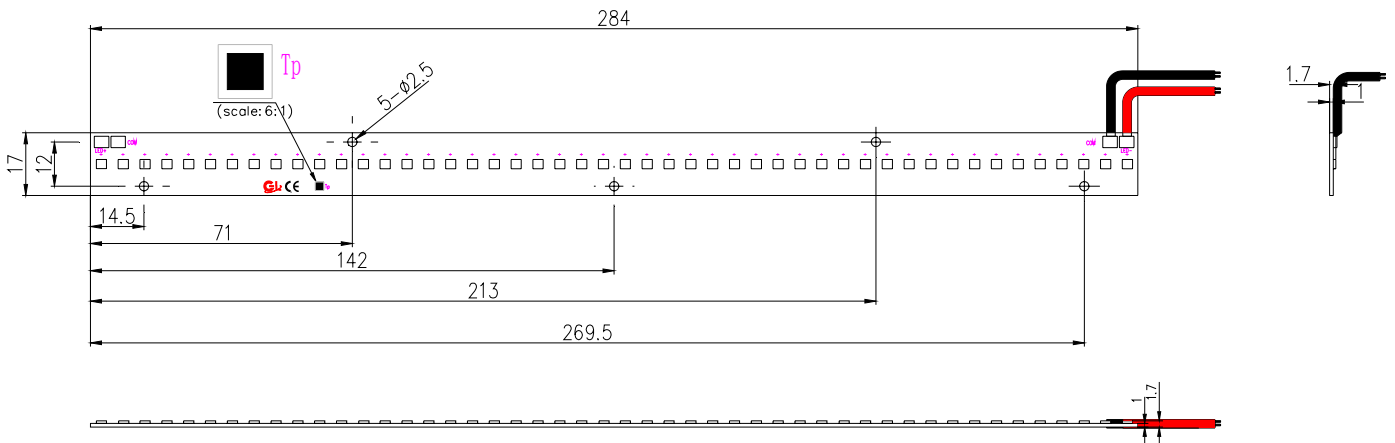
MECHANICAL DRAWINGS (GLV91RS4171 / FR4)

2D drawing with dimensions:

(Unit: mm)



GLV91RS4171/00 (with solder pads only)



GLV91RS4171/20 (with 200mm, 20Awg wire)

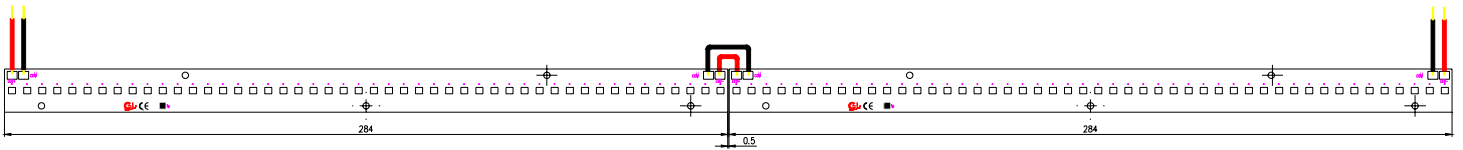
Note: All specifications are subject to change without notice.

PCB SERIES DRAWINGS

2D drawing with dimensions:

(Unit: mm)

Pic.1 FR4 (Example : GLV91RS4171)



Note: All specifications are subject to change without notice.

PART NUMBERING & ORDERING INFORMATION

1. PRODUCT SERIES

GLV91RS4171

Rectangle FR4 with 48 LEDs in series

3. LED TYPE

SB - Mid Power White LED

6. FLUX BIN

A – S0 Bin

2. CONNECTOR TYPE

00 – Solder Pad

20 – 20cm UL1007 20Awg

4. NUMBER OF LED

48 - 48 LEDs

5. CCT

S30 – 3000K ANSI

S40 – 4000K ANSI

S50 – 5000K

S57 – 5700K

Part Number :

GLV91RS4171 / AA – BB CC DDD E

1
2
3
4
5
6

Note: All specifications are subject to change without notice.

COMPANY INFORMATION

About Future Lighting Solutions

Future Lighting Solutions (www.futurelightingsolutions.com) is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

About simpleLED®

Future Lighting Solutions simpleLED program has over 500 combinations of LED & Optic configurations, enabling you to select the right Light Engine for your application, eliminate prototyping delays and accelerating time to market. With a 3 year warranty. Visit our website and start innovating.

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Note: All specifications are subject to change without notice. Warranty provided by the manufacturer, GL-Lighting.