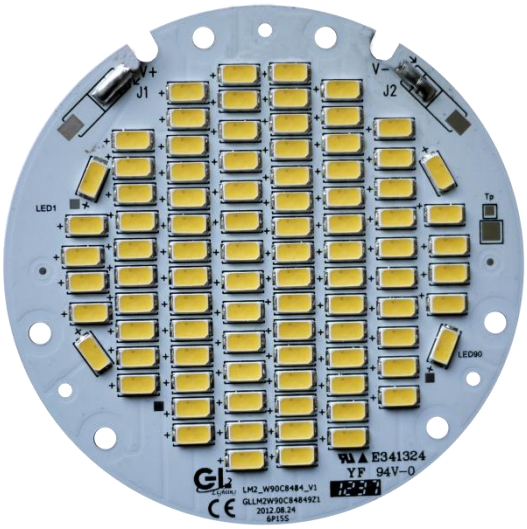


DATA SHEET
GLV92C84841 Series

Part of the simpleLED® Program

simpleLED GLV92C84841 SERIES

The light engine series consist of 78/90 mid-power LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications.

FEATURES & BENEFIT

3 year manufacturer (GL-Lighting) warranty

High-reliability LED sources

Industry standard ANSI color binning

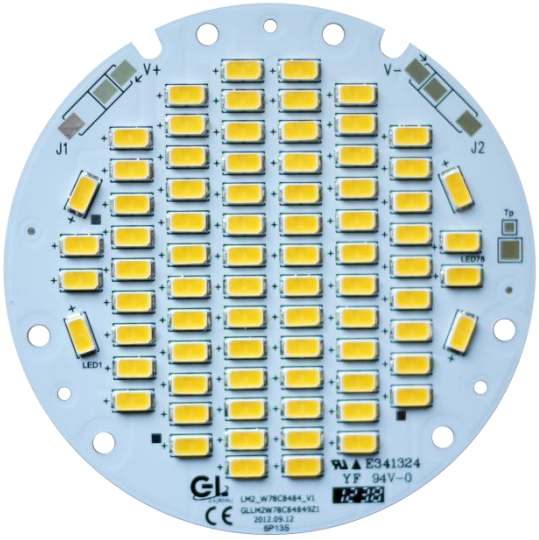
Color consistency targeting a 3-step MacAdam Ellipse

Multiple CCT's available

Wide operating drive current and temperature range

Short lead time

Boards are UL Recognized(PCB only) and CE certified



GLV92C84841-78LEDS

TYPICAL APPLICATIONS

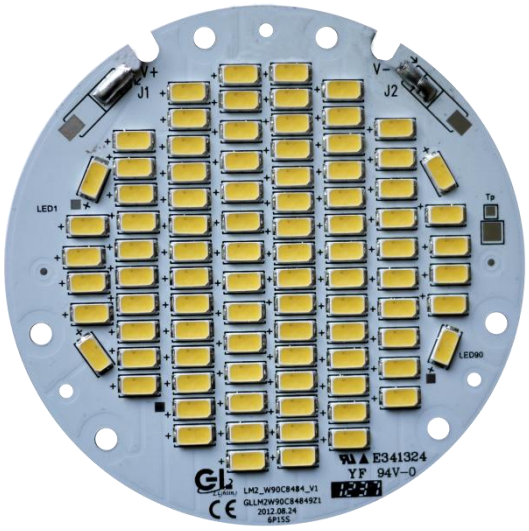
Down Lighting

Recessed Lighting

Flood Lighting

Track Lighting

Under-cabinet lighting



GLV92C84841-90LEDS

Note: All specifications are subject to change without notice.

simpleLED GLV92C84841-GF78 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 84mm
Source Type		Mid Power LED x 78
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CW	Wago connector 2060-401/998-404
Thermal Resistance (Junction to solder point)		Rth< 12 ℃/W
Thermal Resistance (Tp to Ts)		0.184 ℃/W
Thermal Resistance Of The Board (Tp to the bottom of Tp)		0.068 ℃/W
CRI		Min. 80
Tp Maximum Temperature		80 °C

PERFORMANCE SPECIFICATIONS (@ Ta=25 °C, Io=1050mA)

CCT		3000K	3500K	4000K	5000K
Typical Light Output (lm)		4890 lm	5240 lm	5235 lm	5345 lm
Efficacy (lm/w)	Min.	109	116	116	119
	Typ.	116	124	124	126
	Max.	124	133	133	136

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @1050mA & Ta=25°C	37.4	40.1	42.7
Power Consumption @1050mA (W)	39.3	42.11	44.84
Driving Current	<=1050mA		

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 GLV92C84841-GF90 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 84mm
Source Type		Mid Power LED x 90
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CW	Wago connector 2060-401/998-404
Thermal Resistance (Junction to solder point)		Rth< 12 ℃/W
Thermal Resistance (Tp to Ts)		0.184 ℃/W
Thermal Resistance Of The Board (Tp to the bottom of Tp)		0.068 ℃/W
CRI		Min. 80
Tp Maximum Temperature		80 °C

PERFORMANCE SPECIFICATIONS (@ Ta=25 °C, Io=1050mA)

CCT		3000K	3500K	4000K	5000K
Typical Light Output (lm)		5645 lm	6045 lm	6040 lm	6170 lm
Efficacy (lm/w)	Min.	109	116	116	119
	Typ.	116	124	124	127
	Max.	124	133	133	136

ELECTRICAL CHARACTERISTICS

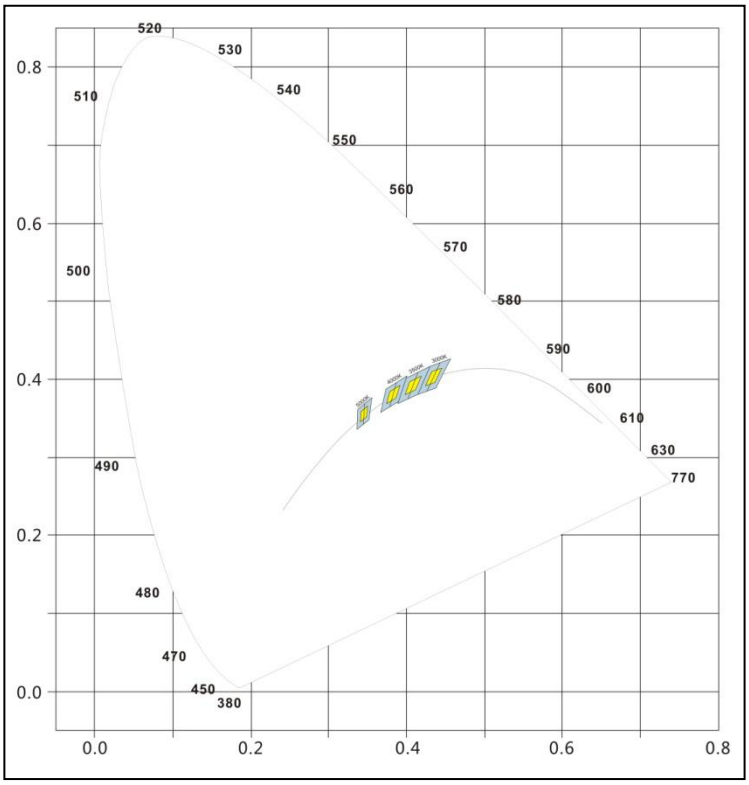
PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @1050mA & Ta=25°C	43.12	46.2	49.3
Power Consumption @1050mA (W)	45.3	48.51	51.77
Driving Current	<=1050mA		

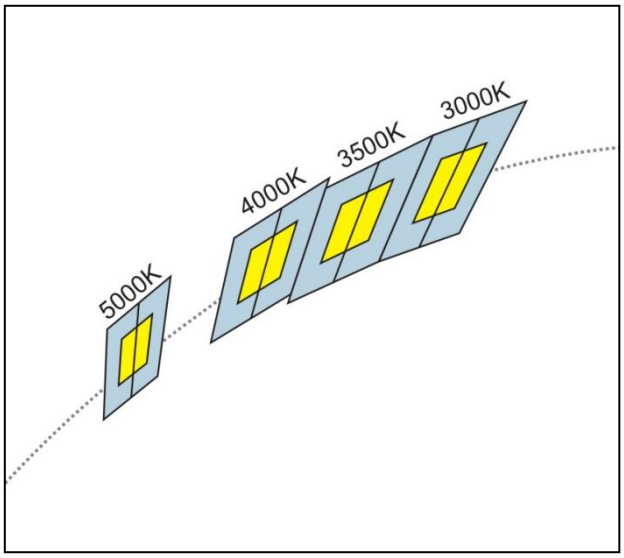
ENVIRONMENTAL CHARACTERISTICS

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

Note: All specifications are subject to change without notice.

CHROMATICITY DIAGRAM





- - **ANSI Binning Area**
- - **Color consistency targeting a 3-step MacAdam Ellipse**

CHROMATICITY COORDINATE – ANSI BINNING

3000K* ANSI		3500K* ANSI		4000K* ANSI		5000K* ANSI	
x	Y	x	y	x	y	x	y
0.4299	0.4165	0.3996	0.4015	0.3736	0.3874	0.3376	0.3616
0.4562	0.4260	0.4299	0.4165	0.4006	0.4044	0.3551	0.3760
0.4147	0.3814	0.3889	0.3690	0.3670	0.3578	0.3366	0.3369
0.4373	0.3893	0.4147	0.3814	0.3898	0.3716	0.3515	0.3487

Color consistency targeting a 3-step MacAdam Ellipse

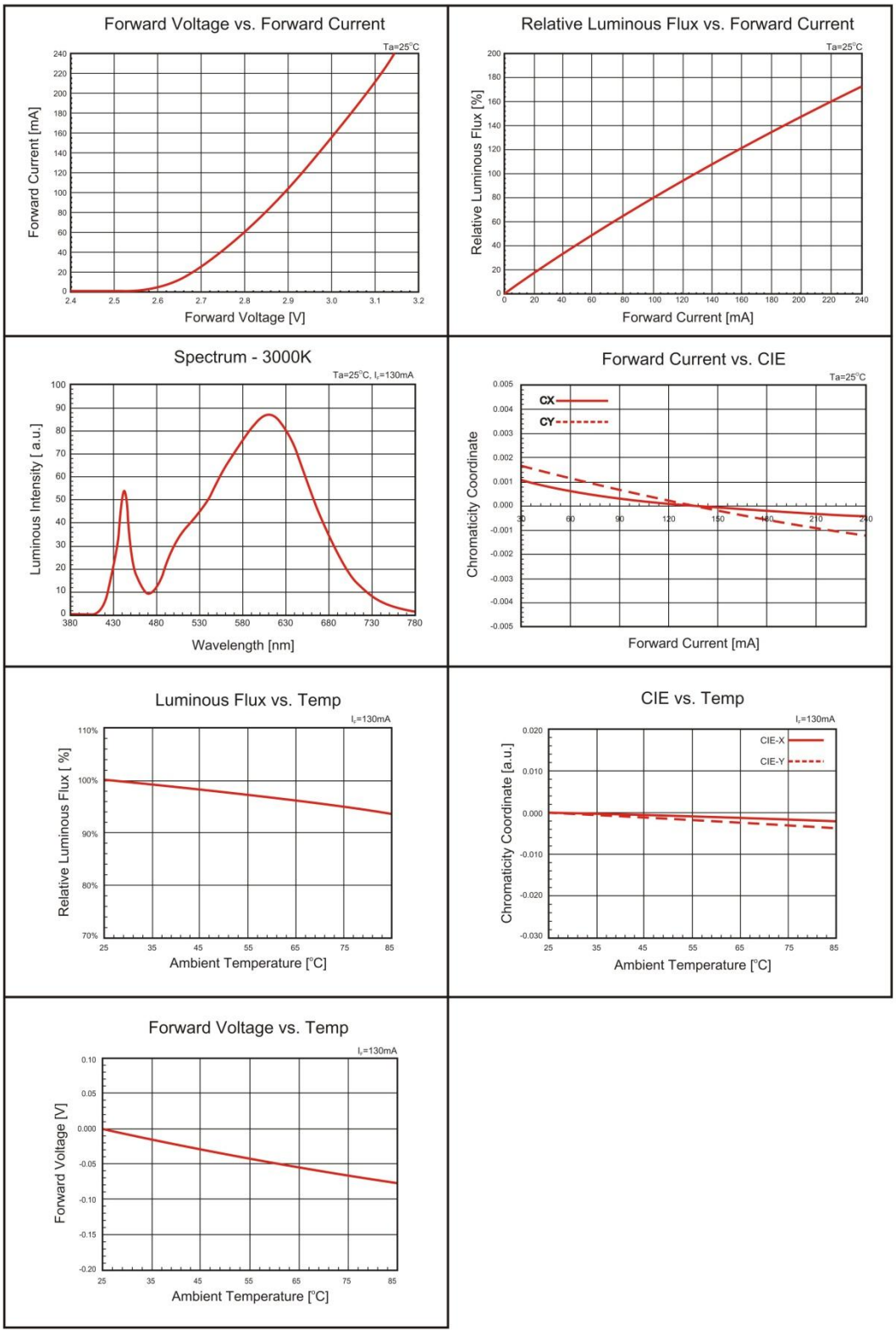
3000K*		3500K*		4000K*		5000K*	
x	y	x	y	x	y	x	y
0.4323	0.4098	0.4041	0.3969	0.3785	0.3841	0.3416	0.3589
0.4450	0.4144	0.4187	0.4040	0.3915	0.3922	0.3500	0.3657
0.4243	0.3921	0.3982	0.3803	0.3746	0.3689	0.3407	0.3462
0.4360	0.3962	0.4117	0.3868	0.3866	0.3762	0.3485	0.3524

*** The tolerances of the x,y coordinates. +/- 0.01**

Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH_3000K

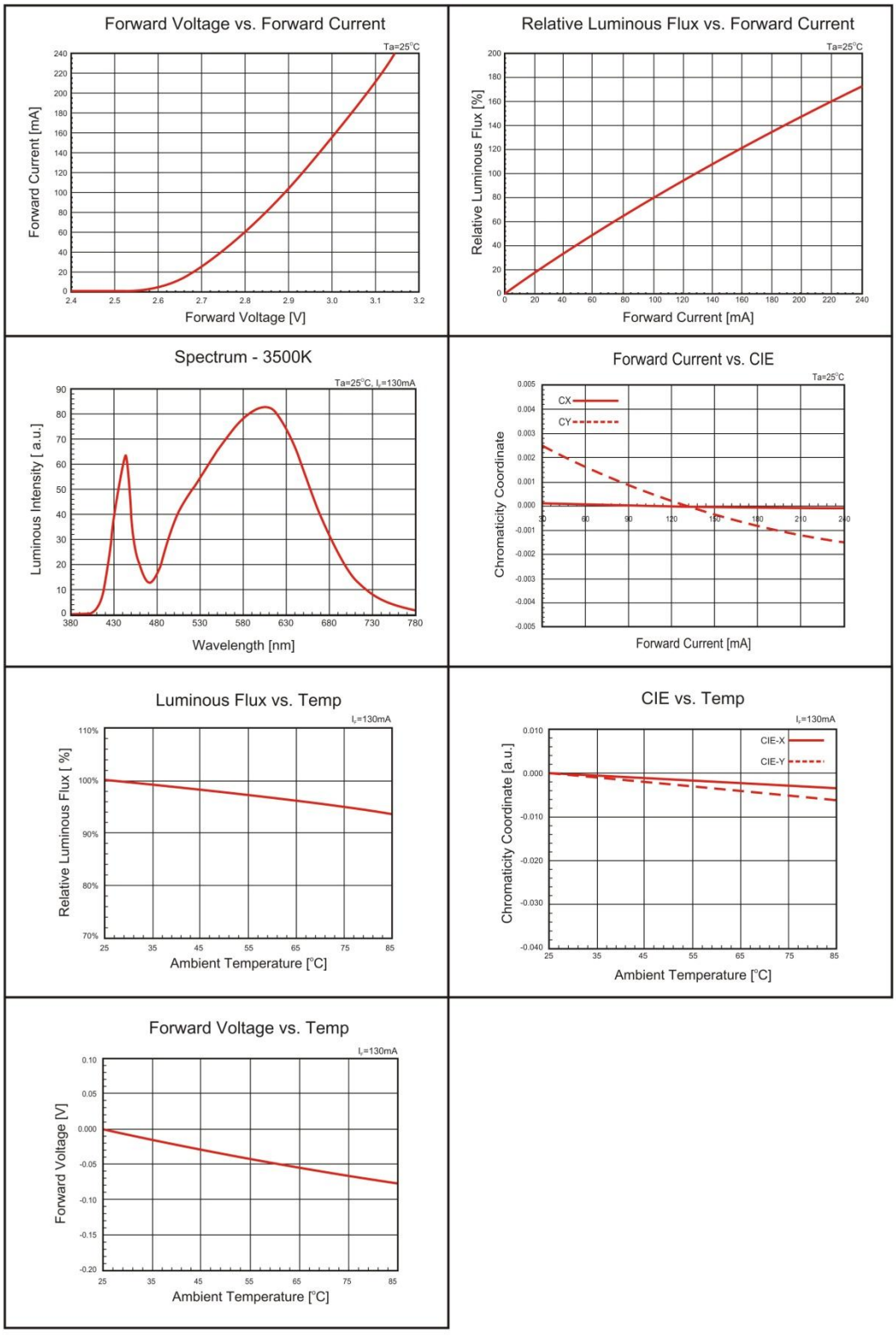
*These graphs show typical values. (Ts:25°C)



Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH_3500K

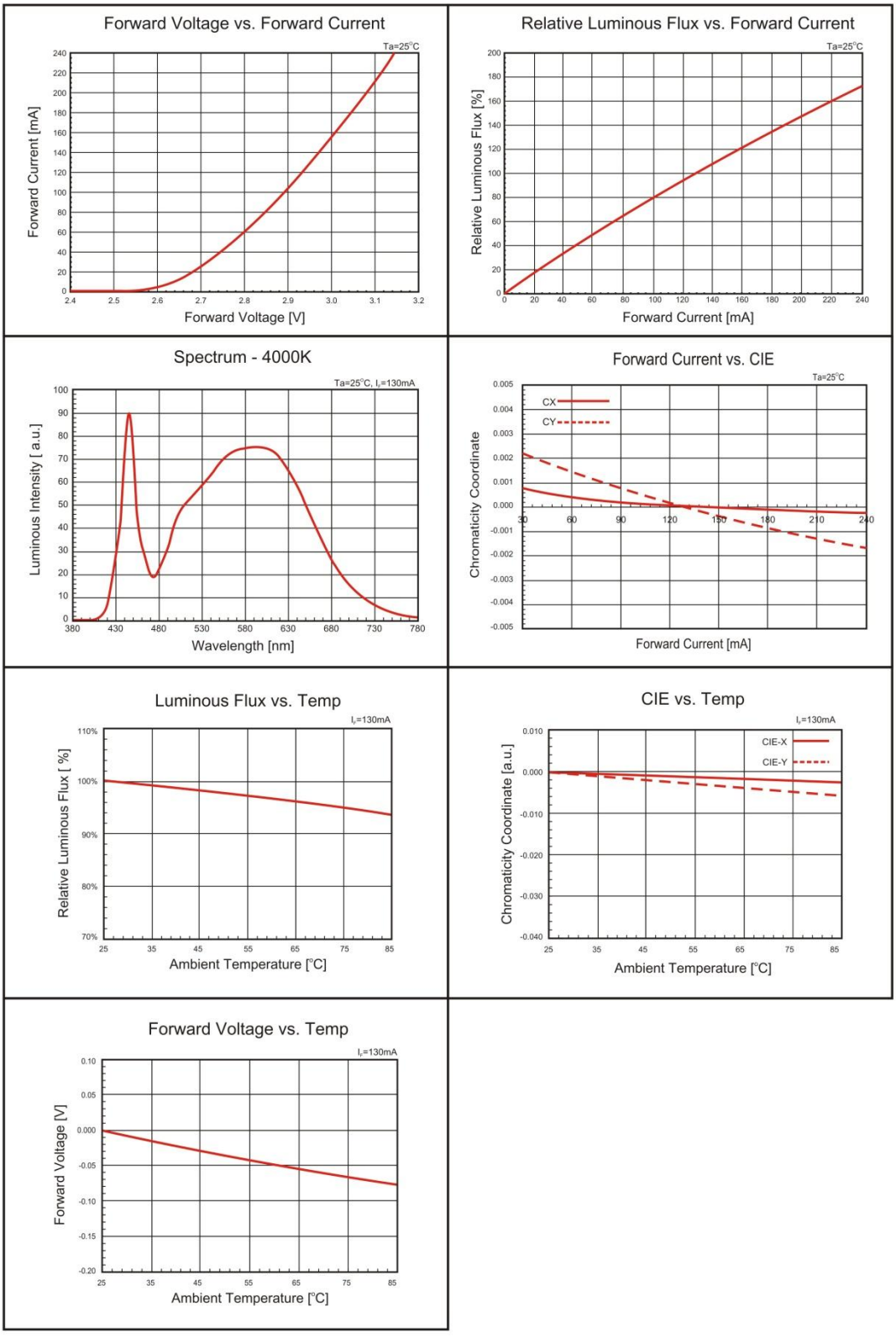
*These graphs show typical values. (Ts:25°C)



Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH_4000K

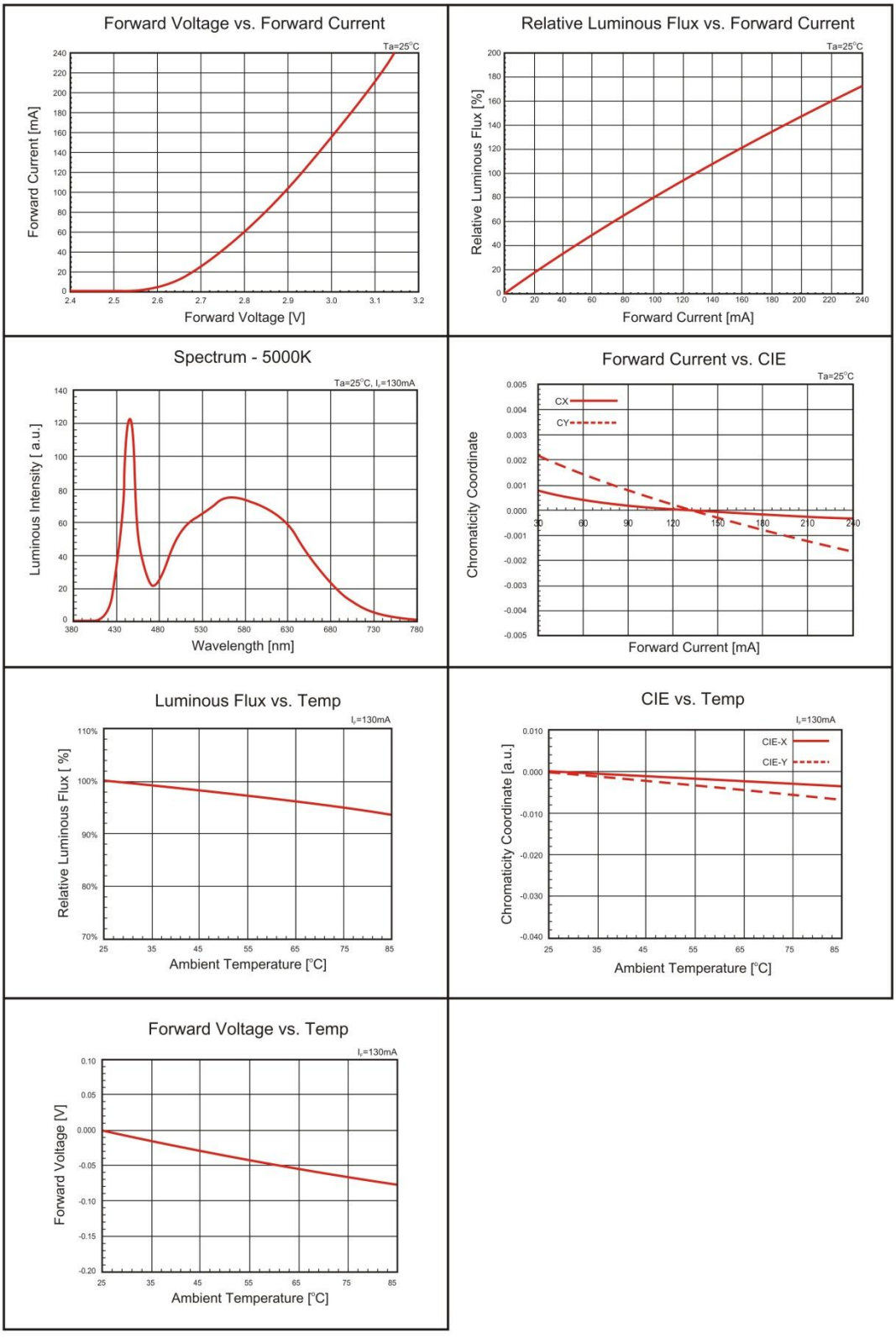
*These graphs show typical values. (Ts:25°C)



Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH_5000K

*These graphs show typical values. (Ts:25°C)

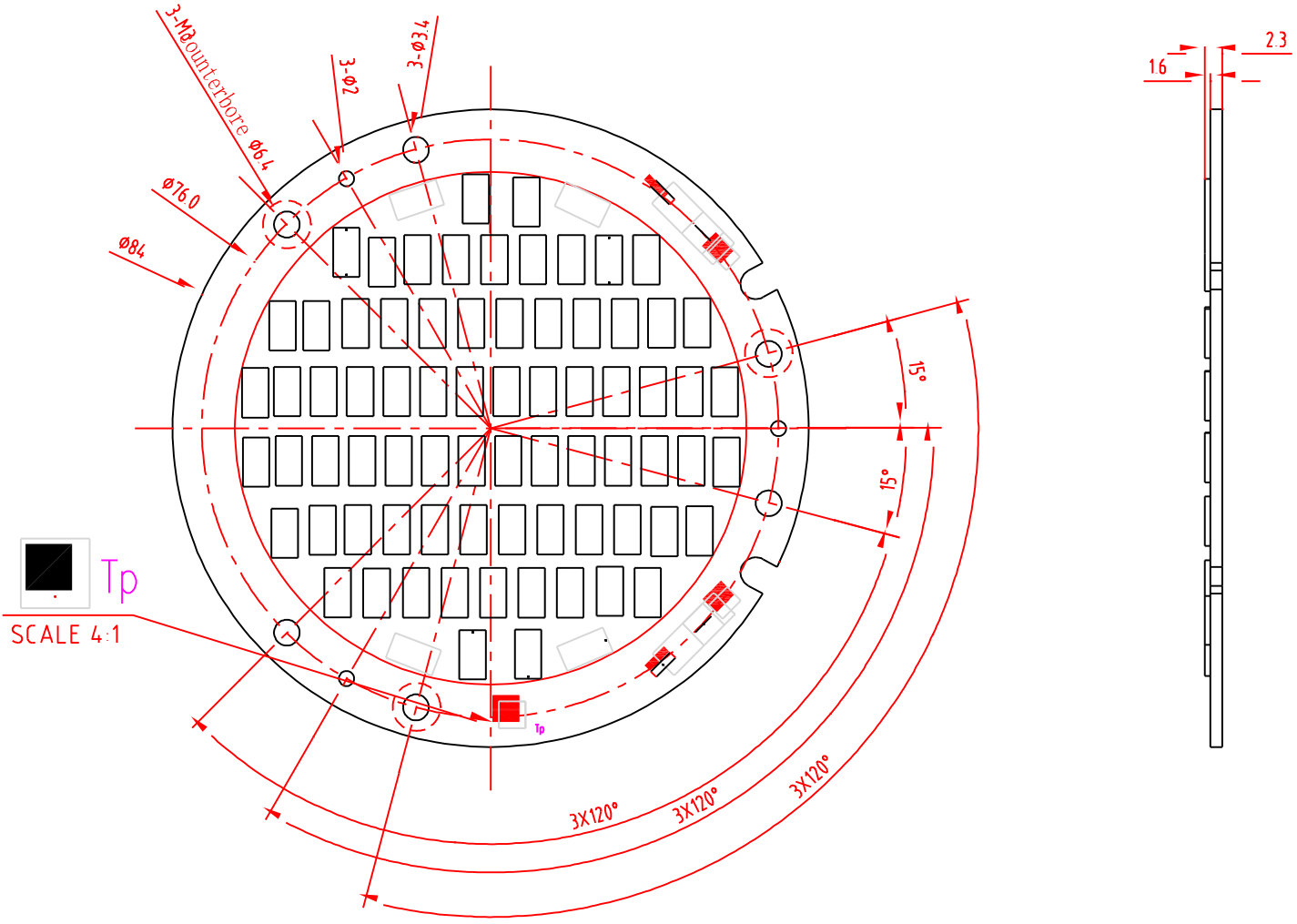


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/00-GF78 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm

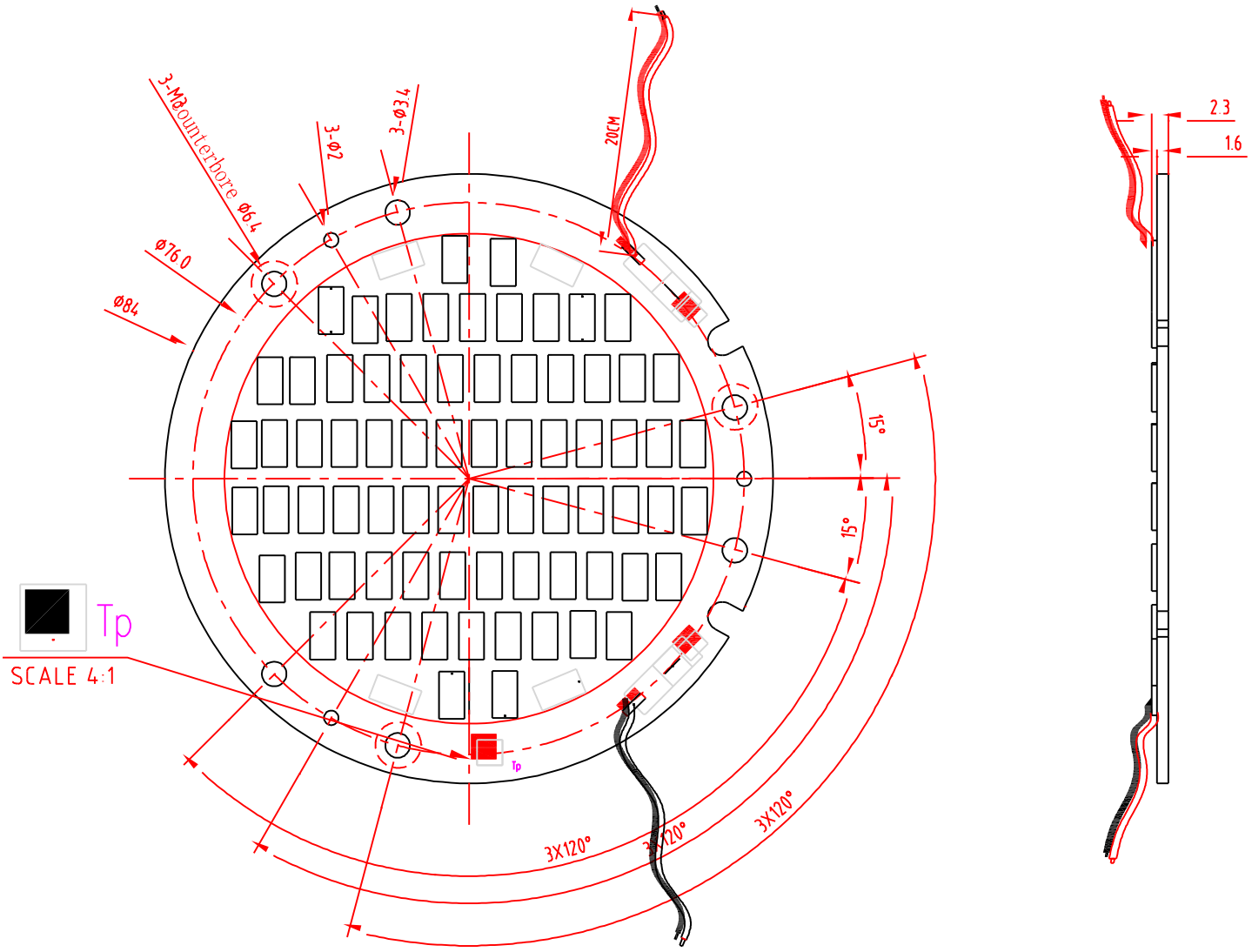


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/20-GF78 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm

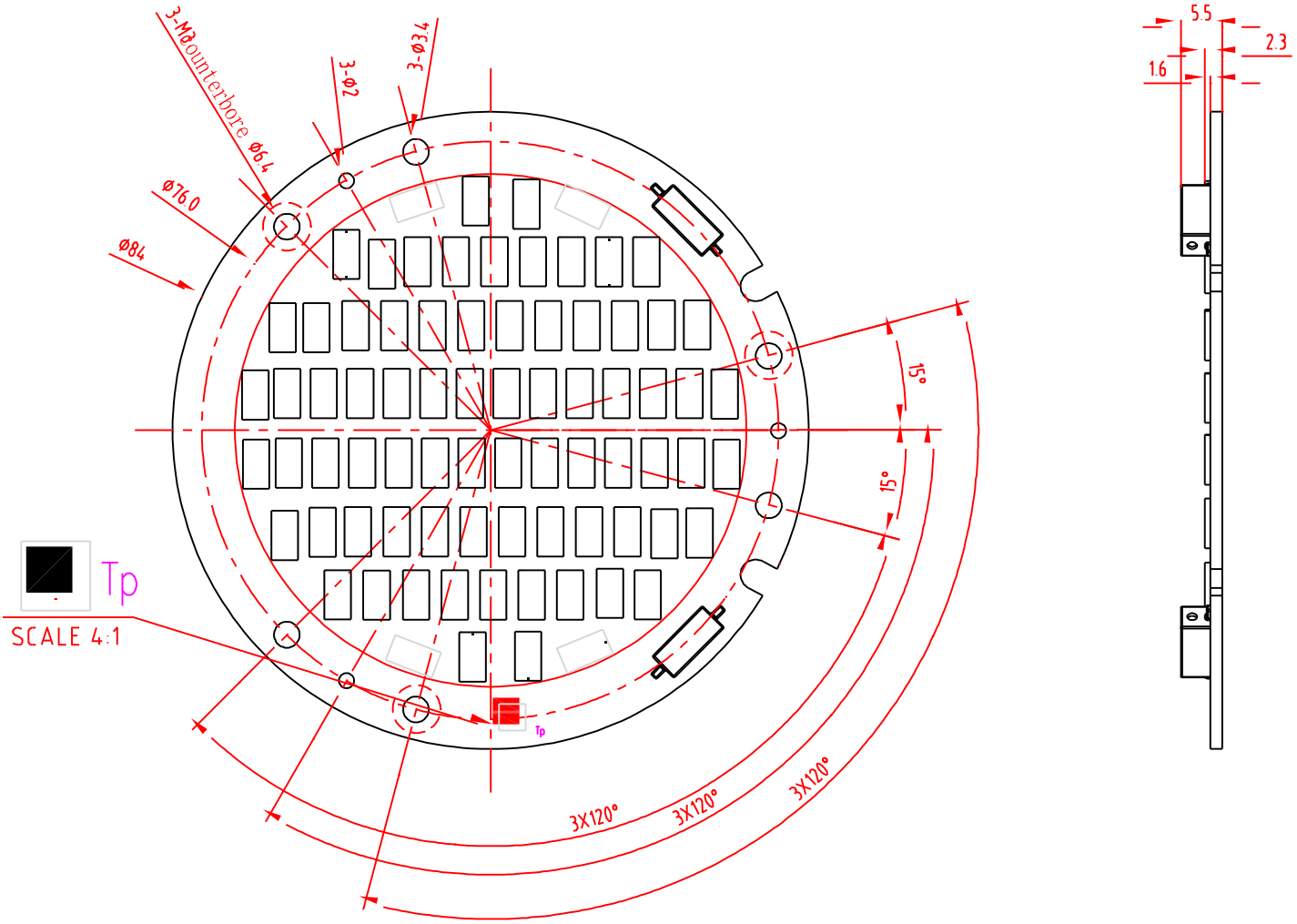


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/CW-GF78 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm

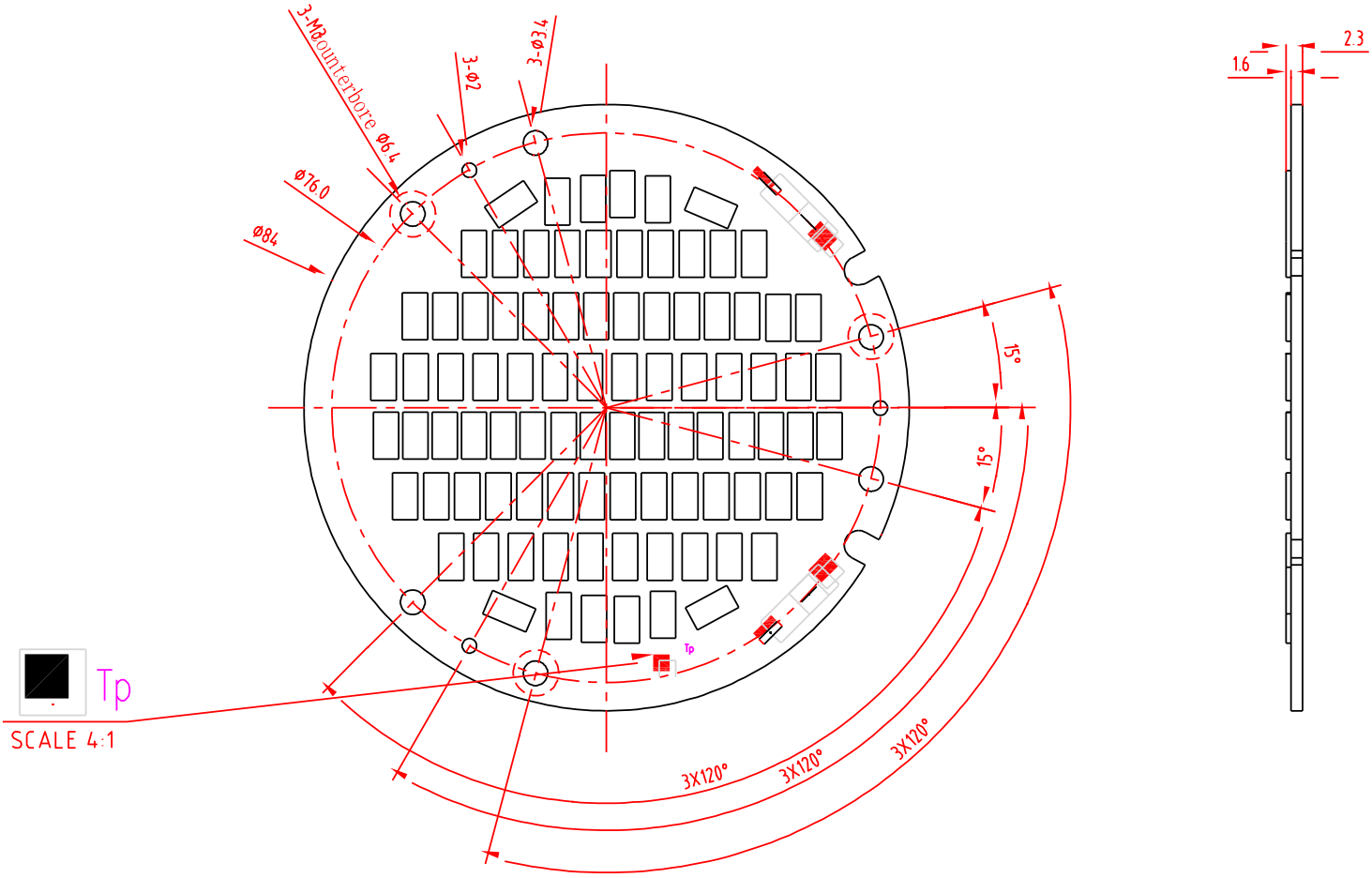


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/00-GF90 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm

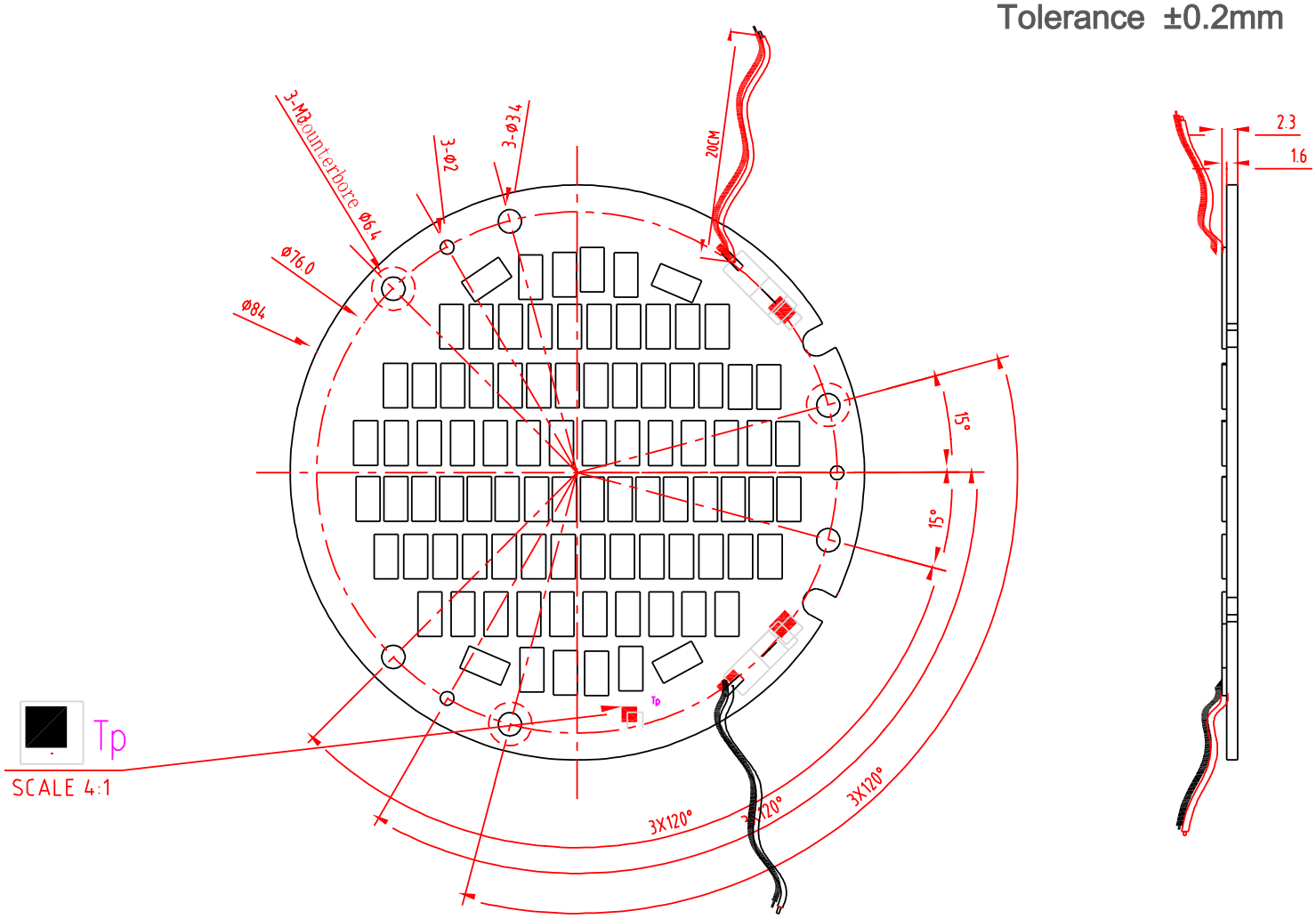


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/20-GF90 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm

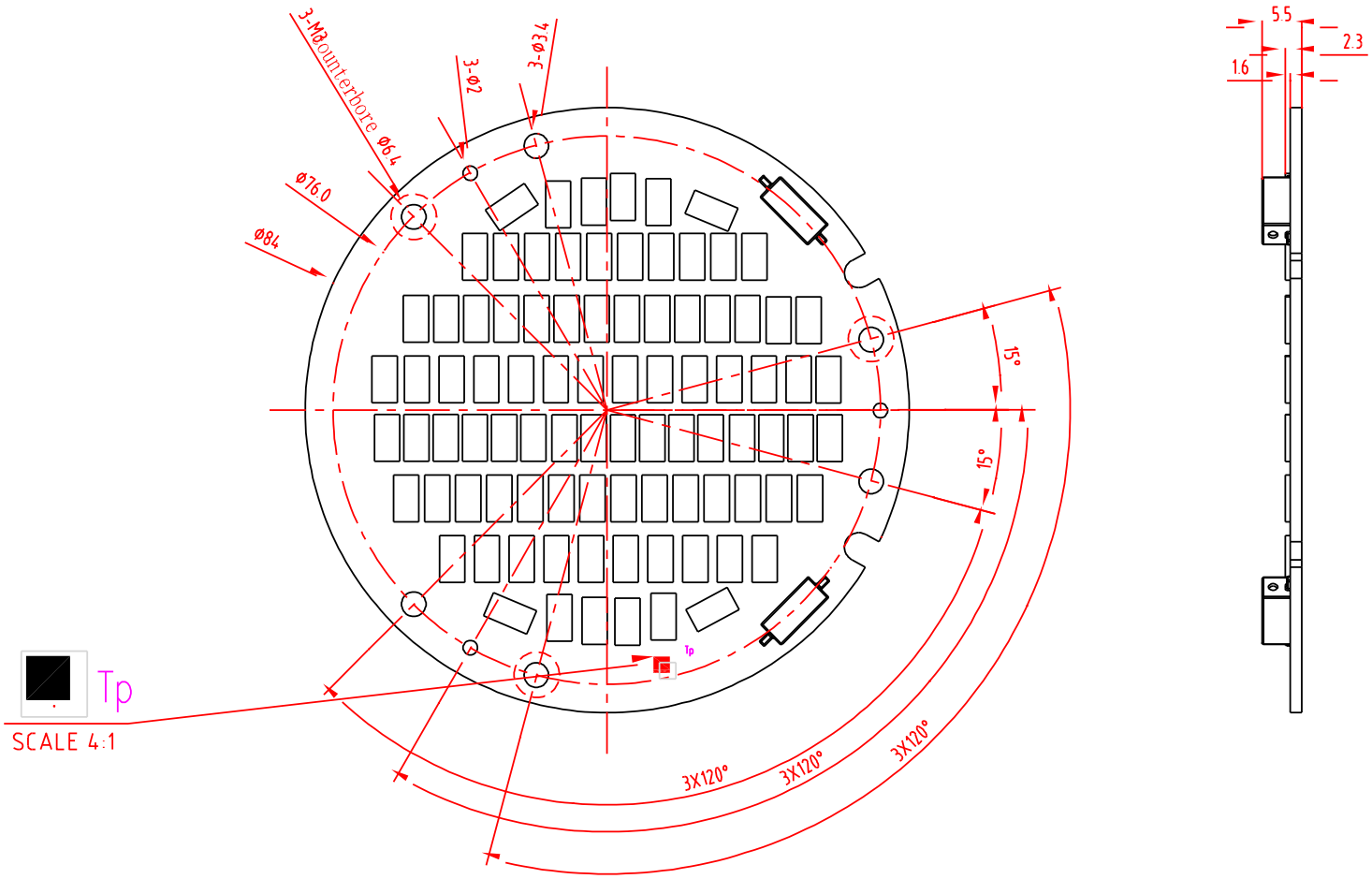


Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84841/CW-GF90 / MCPCB)

2D drawing with dimensions: (Unit: mm)

Tolerance ±0.2mm



Note: All specifications are subject to change without notice.

PART NUMBERING & ORDERING INFORMATION

1. PRODUCT SERIES

GLV92C84841

Circular MCPCB with 78/90 mid power LEDs

2. CONNECTOR TYPE

00 – Solder Pad

20 – 20cm UL1007 20Awg

CW – Wago connector 2060-401/998-404

3. LED TYPE

GF - LG6030 Mid Power LED (6P)

4. NUMBER OF LED

78 - 78 LEDs

90 – 78 LEDs

5. CCT

S30 – 3000K ANSI

S35 – 3500K ANSI

S40 – 4000K ANSI

S50 – 5000K ANSI

6. FLUX BIN

A – S0 Bin

Part Number :

GLV92C84841	/	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.