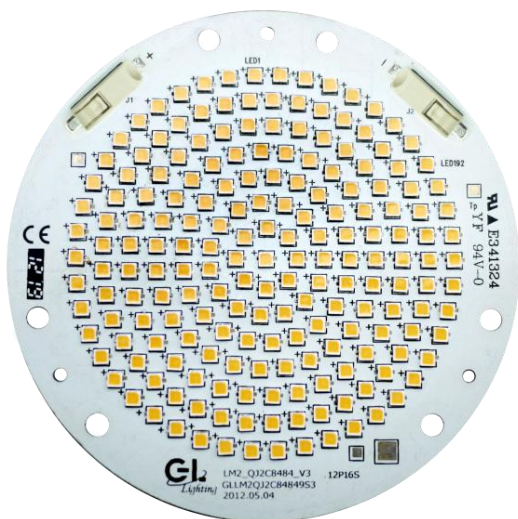




DATA SHEET

GLV92C8484_ Series

Part of the simpleLED® Program

simpleLED GLV92C8484_ SERIES

The light engine series consist of 144 , 168 and 192 mid-power LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications. The module series is complied with IEC62031 Class III, it can connect with UL Class II driver (please confirm with us if any other applications).

FEATURES & BENEFIT

3 year manufacturer (GL-Lighting) warranty

High-reliability LED sources

LM-80 compliant LEDs

Min 80 CRI

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

Complied with IEC62031, boards are UL Recognized (PCB only)

TYPICAL APPLICATIONS

Down Lighting

Recessed Lighting

Flood Lighting

Low Bay

High Bay

Area Lighting

Note: All specifications are subject to change without notice.

simpleLED GLV92C84842-SLE4 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 84mm
Source Type		Samsung2323 LED x 144
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CW	Wago connector 2060-401/998-404
Thermal Resistance (Junction to solder point)		Rth< 20 °C/W
Thermal Resistance (Tp to Ts)		0.16 °C/W
Thermal Resistance Of The Board (Ts to the bottom of Ts)		0.31 °C/W
CRI		Min. 80
Tp Maximum Temperature		80 °C

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

CCT		2700K	3000K	3500K	4000K	5000K	5700K
Typical Light Output (lm)		4555lm	4555lm	4555lm	4825lm	4735lm	4735lm
Efficacy (lm/w)	Min.	109	109	109	116	113	113
	Typ.	119	119	119	126	123	123
	Max.	130	130	130	137	135	135

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @1050mA & Ts=25°C	33.36	36.42	39.6
Power Consumption @1050mA (W)	35.03	38.24	41.58
Driving Current	Absolute Max.		1440mA
	For LM80		<=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-SLG8 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 84mm
Source Type		Samsung2323 LED x 168
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CW	Wago connector 2060-401/998-404
Thermal Resistance (Junction to solder point)		Rth< 20 °C/W
Thermal Resistance (Tp to Ts)		0.12 °C/W
Thermal Resistance Of The Board (Ts to the bottom of Ts)		0.28°C/W
CRI		Min. 80
Tp Maximum Temperature		80 °C

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

CCT		2700K	3000K	3500K	4000K	5000K	5700K
Typical Light Output (lm)		5310lm	5310lm	5310lm	5625lm	5520lm	5520lm
Efficacy (lm/w)	Min.	109	109	109	115	113	113
	Typ.	119	119	119	126	123	123
	Max.	129	129	129	137	135	135

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @1050mA & Ts=25°C	38.92	42.48	46.2
Power Consumption @1050mA (W)	40.87	44.61	48.51
Driving Current	Absolute Max.	1440mA	
	For LM80	<=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 GLV92C84843-SLJ2 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 84mm
Source Type		Samsung2323 LED x 192
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CW	Wago connector 2060-401/998-404
Thermal Resistance (Junction to solder point)		Rth< 20 °C/W
Thermal Resistance (Tp to Ts)		0.15 °C/W
Thermal Resistance Of The Board (Ts to the bottom of Ts)		0.29 °C/W
CRI		Min. 80
Tp Maximum Temperature		80 °C

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

CCT		2700K	3000K	3500K	4000K	5000K	5700K
Typical Light Output (lm)		6070lm	6070lm	6070lm	6430lm	6310lm	6310lm
Efficacy (lm/w)	Min.	109	109	109	115	113	113
	Typ.	119	119	119	126	123	123
	Max.	129	129	129	137	135	135

ELECTRICAL CHARACTERISTICS

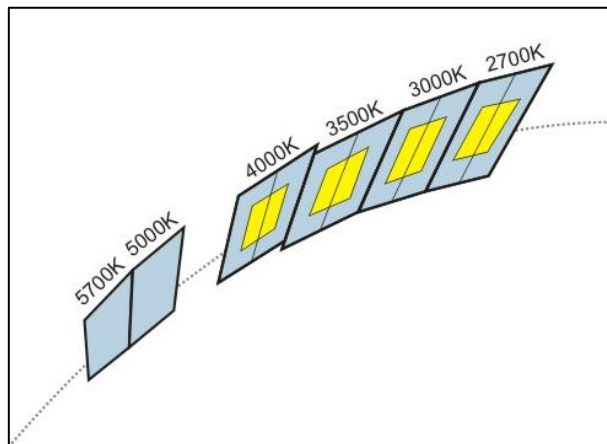
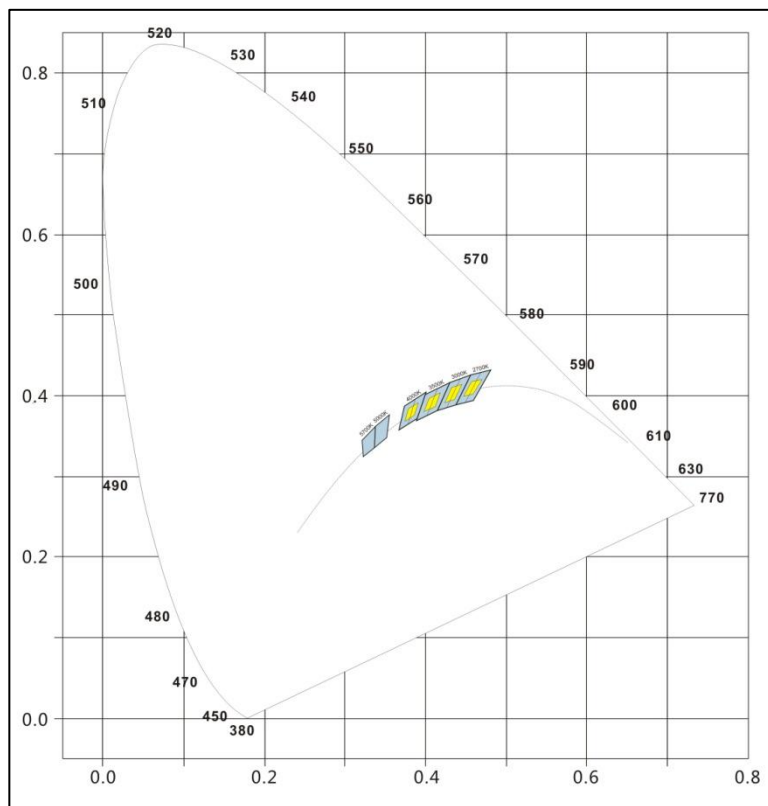
PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @1050mA & Ts=25°C	44.48	48.55	52.8
Power Consumption @1050mA (W)	46.71	50.98	55.44
Driving Current	Absolute Max.		1440mA
	For LM80		<=1050mA

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

2700K* ANSI		3000K* ANSI		3500K* ANSI		4000K* ANSI		5000K* ANSI		5700K* ANSI	
x	y	x	y	x	y	x	y	x	y	x	y
0.4562	0.4260	0.4299	0.4165	0.3996	0.4015	0.3736	0.3874	0.3376	0.3616	0.3207	0.3462
0.4813	0.4319	0.4562	0.4260	0.4299	0.4165	0.4006	0.4044	0.3551	0.3760	0.3376	0.3616
0.4373	0.3893	0.4147	0.3814	0.3889	0.3690	0.3670	0.3578	0.3366	0.3369	0.3222	0.3243
0.4593	0.3944	0.4373	0.3893	0.4147	0.3814	0.3898	0.3716	0.3515	0.3487	0.3366	0.3369

Color consistency targeting a 3-step MacAdam Ellipse

2700K*		3000K*		3500K*		4000K*	
x	y	x	y	x	y	x	y
0.4573	0.4178	0.4322	0.4096	0.4040	0.3966	0.3782	0.3837
0.4695	0.4207	0.4449	0.4141	0.4186	0.4037	0.3912	0.3917
0.4475	0.3994	0.4242	0.3919	0.3981	0.3800	0.3744	0.3685
0.4589	0.4021	0.4359	0.3960	0.4116	0.3865	0.3863	0.3758

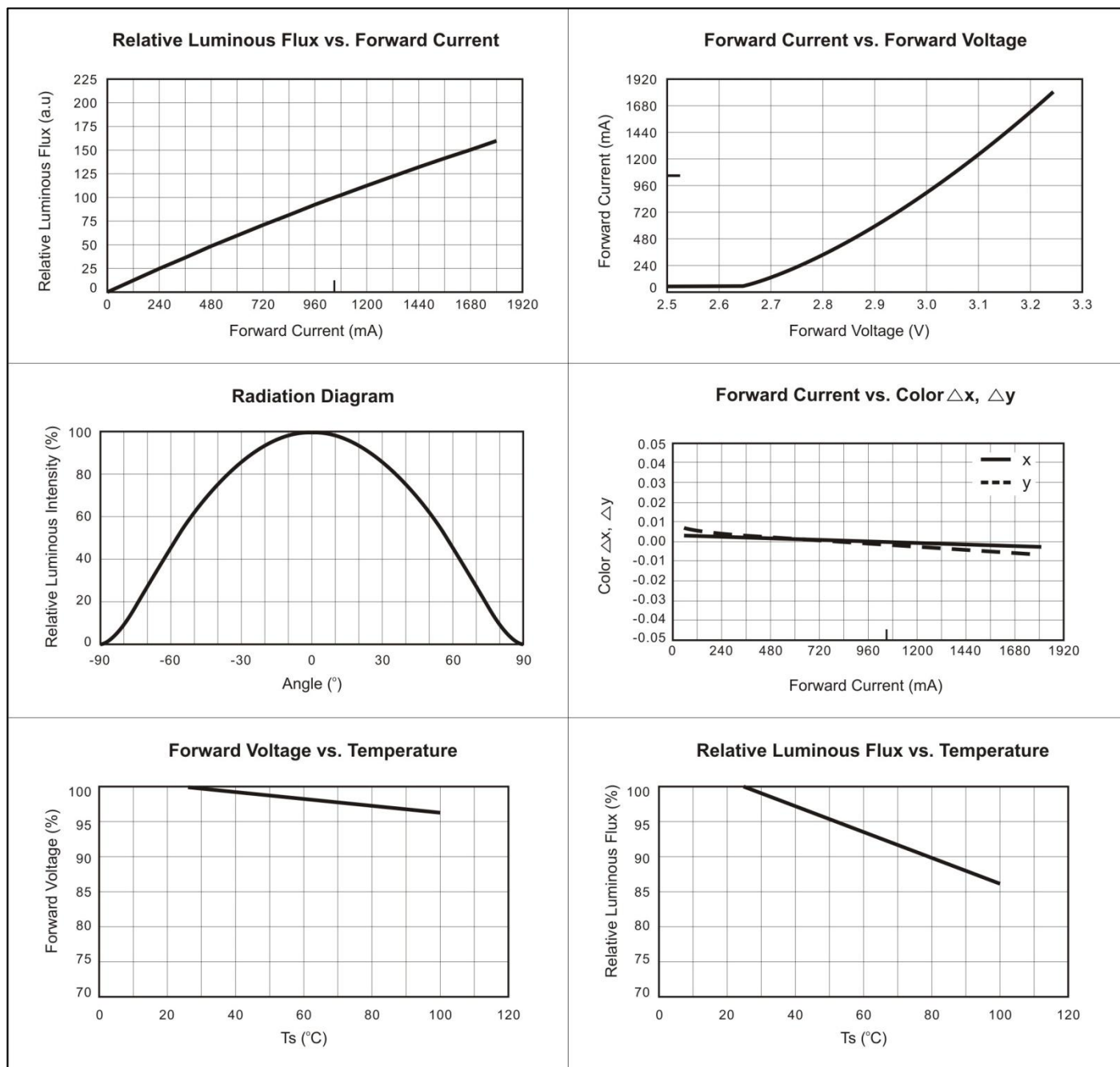
* The tolerances of the x,y coordinates. +/- 0.01

Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH

*These graphs show typical values.

(Ts:25°C)

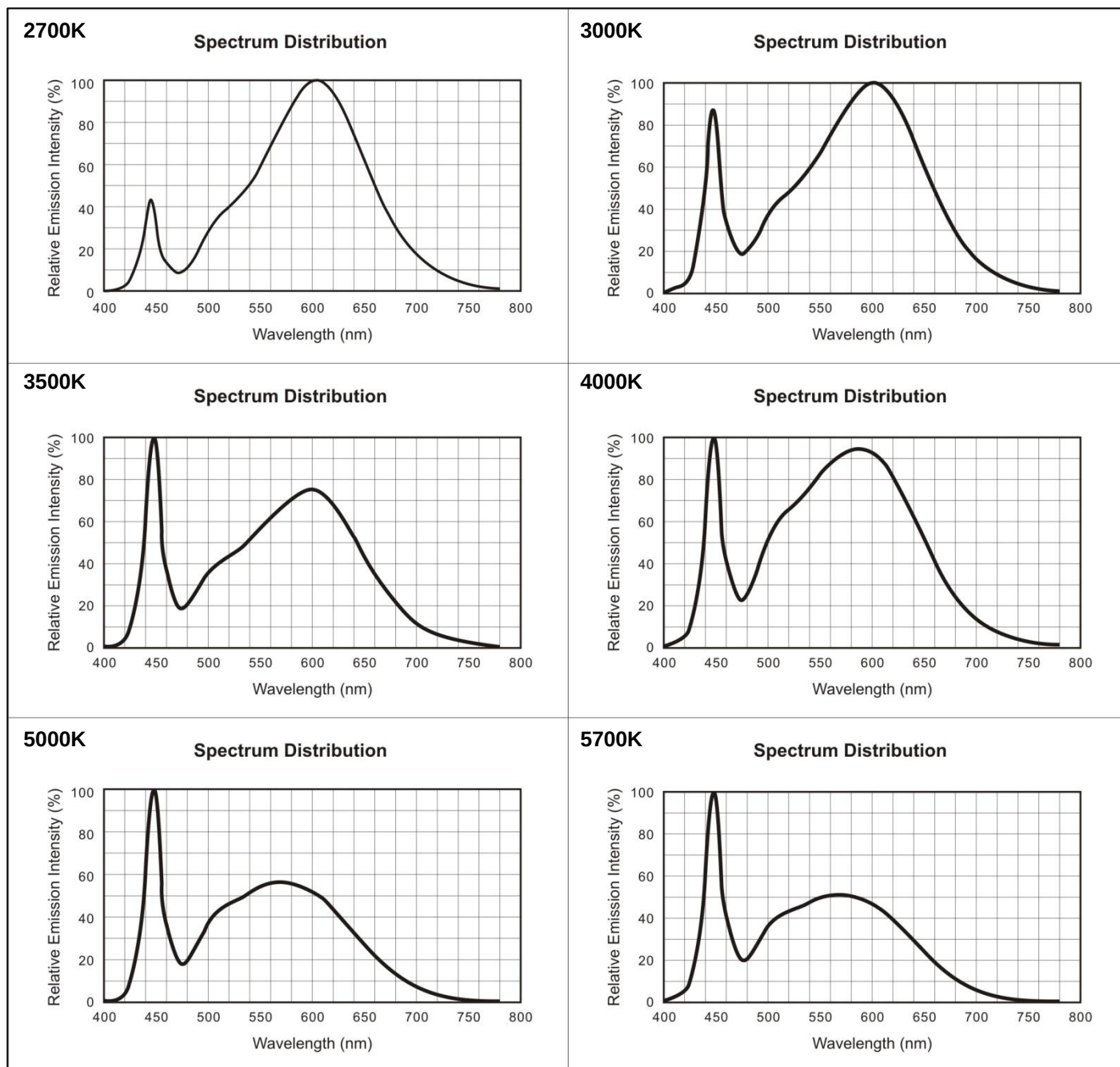


Note: All specifications are subject to change without notice.

TYPICAL CHARACTERISTICS GRAPH

*These graphs show typical values.

(Ts:25°C)

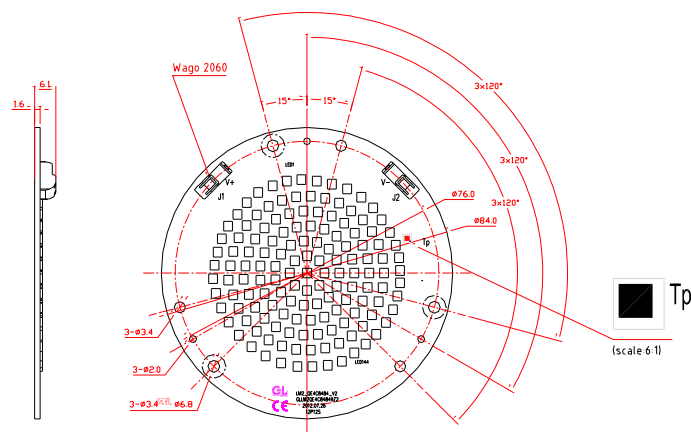


Note: All specifications are subject to change without notice.

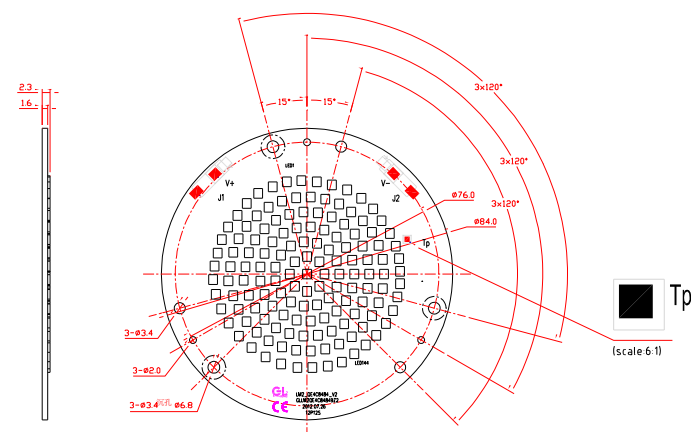
MECHANICAL DRAWINGS (GLV92C84842-SLE4 / MCPCB)

2D drawing with dimensions:

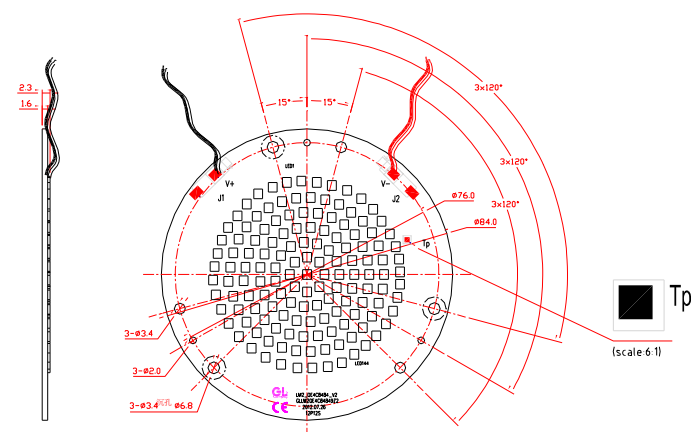
(Unit: mm)



GLV92C84842/CW
(with connector)



GLV92C84842/00
(with solder pads only)



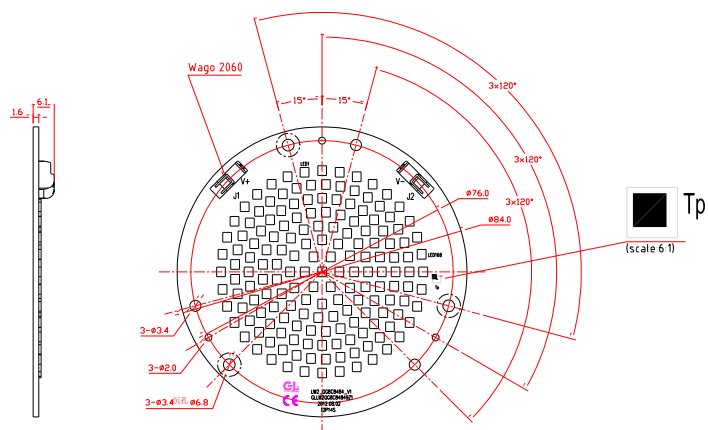
GLV92C84842/20
(with 200mm,20Awg wire)

Note: All specifications are subject to change without notice.

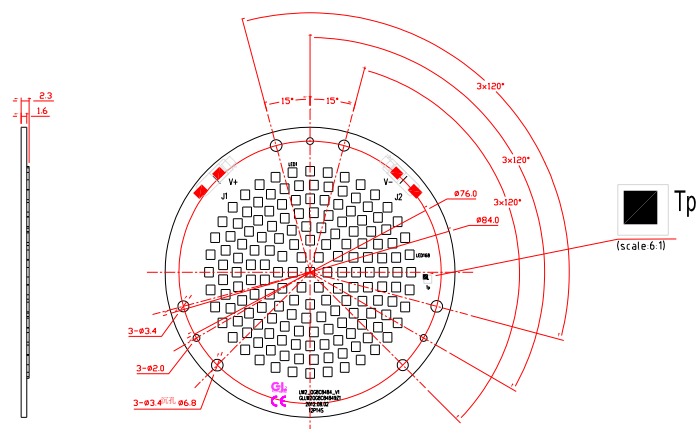
MECHANICAL DRAWINGS (GLV92C84841-SLG8 / MCPCB)

2D drawing with dimensions:

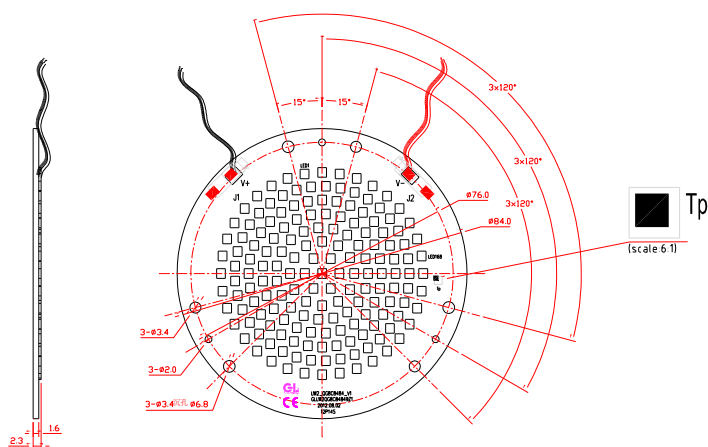
(Unit: mm)



GLV92C84841/CW
(with connector)



GLV92C84841/00
(with solder pads only)



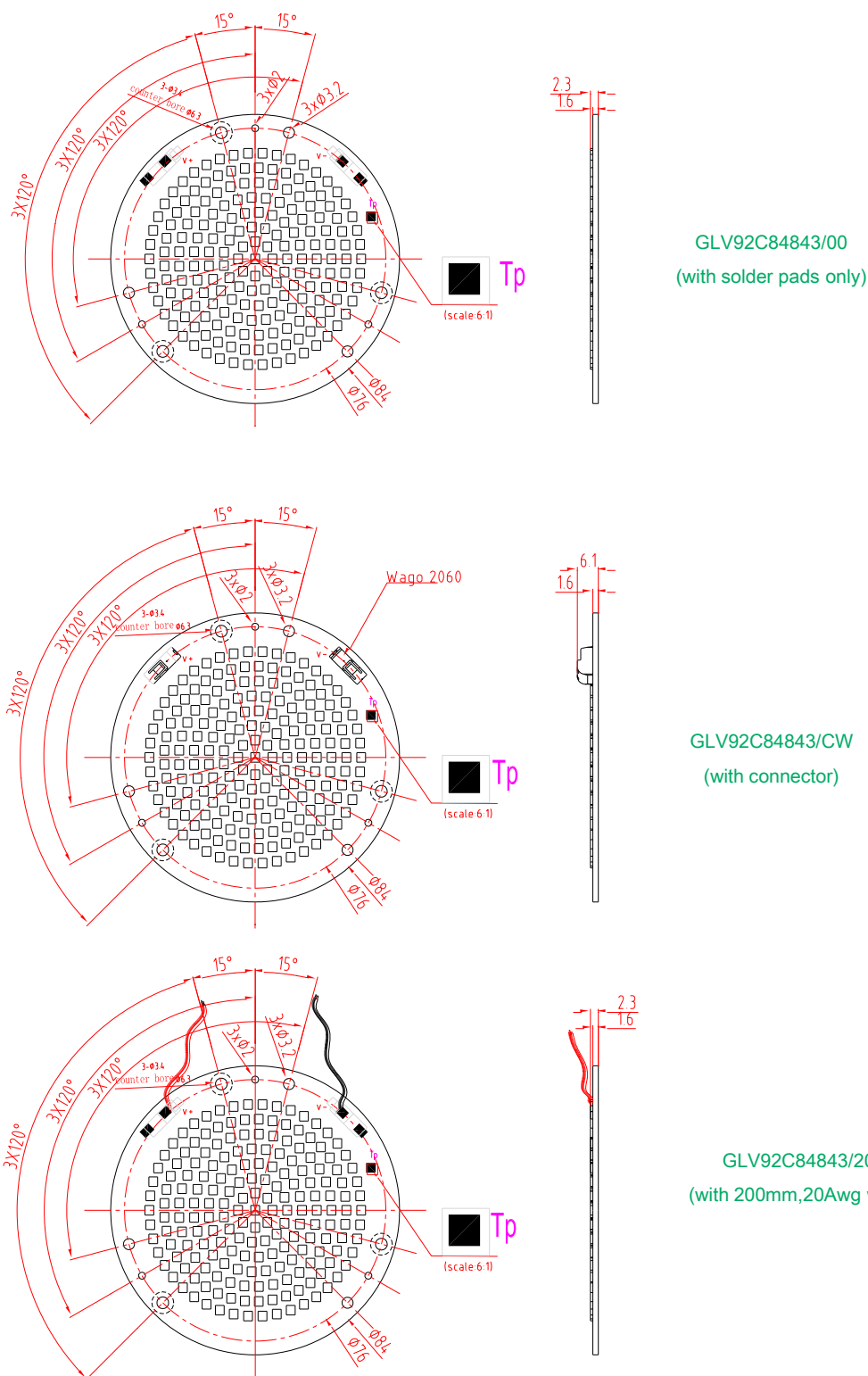
GLV92C84841/20
(with 200mm,20Awg wire)

Note: All specifications are subject to change without notice.

MECHANICAL DRAWINGS (GLV92C84843-SLJ2 / MCPCB)

2D drawing with dimensions:

(Unit: mm)



Note: All specifications are subject to change without notice.

PART NUMBERING & ORDERING INFORMATION

1. PRODUCT SERIES GLV92C84841 Circular MCPCB with 168 LEDs GLV92C84842 Circular MCPCB with 144 LEDs GLV92C84843 Circular MCPCB with 192 LEDs	3. LED TYPE SL - Samsung2323 White LED 12P	6. FLUX BIN A – S0 Bin
2. CONNECTOR TYPE 00 – Solder Pad 20 – 20cm UL1007 20Awg CW – Wago connector 2060-401/998-404	4. NUMBER OF LED E4 - 144 LEDs(12P) G8 – 168 LEDs(12P) J2 - 192 LEDs(12P)	
	5. CCT S27 – 2700K ANSI S30 – 3000K ANSI S35 – 3500K ANSI S40 – 4000K ANSI S50 – 5000K ANSI S57 – 5700K ANSI	

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.