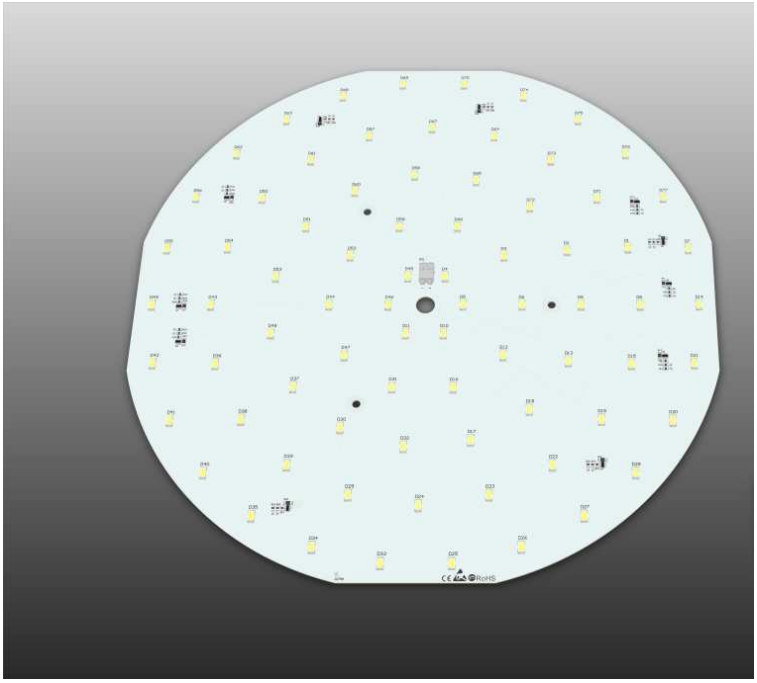
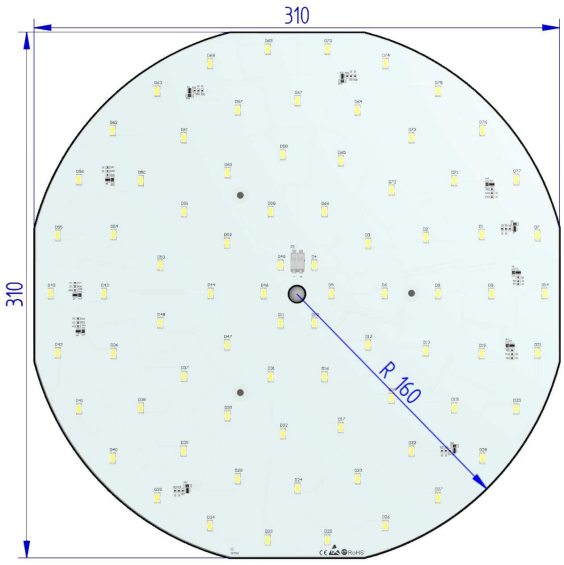
LED-Board Diameter 320mm 24V



LED Type	Osram Duris E5
LED Quantity	77 pcs
Diameter	320 mm
Power Supply Type	Constant Voltage (CV)
Power Supply Voltage	24 V
Viewing Angle	120°
Material Thickness	1,5 mm
Cable Connection	WAGO 2060
Max Ambient Temperature	45°C
CRI	85



Introduction

LED module is an advanced light source designed for the best energy efficient and eco-friendly indoor lighting. It is based on medium power LEDs produced by the leader of the LED technology OSRAM.

Features

- Rigid board LED module
- Viewing angle at 50% I_V: 120°
- High colour rendering index CRI 85
- Self-cooling (no heat sink required)
- Small colour tolerance
- Small luminous flux tolerances
- Colour temperatures 2700K, 3000K, 4000K, 5700K
- Push terminals for quick and simple wiring
- Dimmable
- Simple installation

Applications

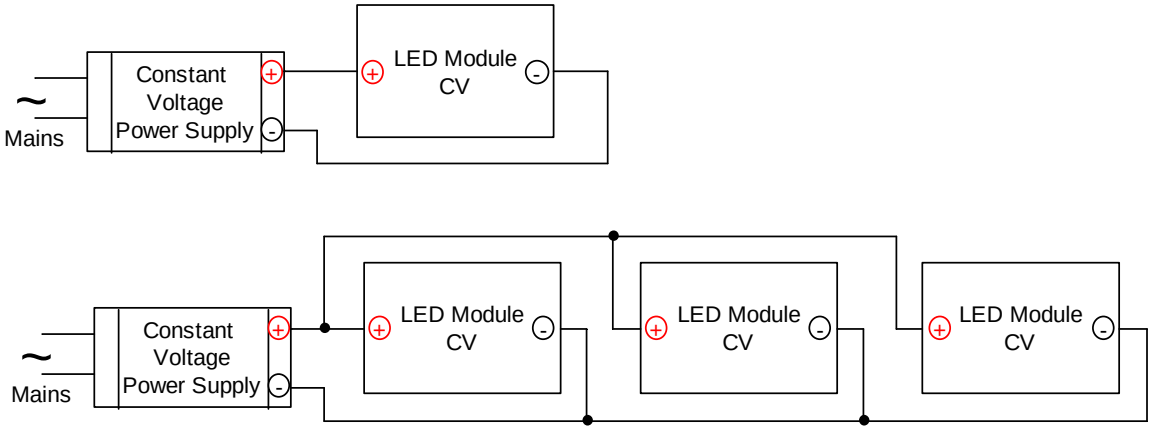
- Ideal for ceiling-mounted and wall-mounted luminaries
- Retrofits and fixtures
- Accent and Effect Lighting
- Professional downlights
- Shop lighting

LED-Board Diameter 320mm 24V

CALCULATED PARAMETERS AT T_J = 20°C

LED Type		Osram Duris E5	
LED Quantity	**pcs**	77	
Diameter	**mm**	320	
Power Supply Type		Constant Voltage (CV)	
Power Supply Voltage	**V**	24	
Viewing Angle	**deg**	120	
Material Thickness	**mm**	1,5	
Cable Connection		WAGO 2060	
Max Ambient Temperature	**°C**	45	
CRI		85	
Min. Power Supply Current	**A**	1,86	
Total Power Consumption	**W**	34,32	
Colour temperature	**K**	**3000**	
Typical Luminous Flux	**lm**	up to 3566	
CE article number		**1275402 (50763233)**	

WIRING DIAGRAM FOR LED CV MODULES WITH PARALLEL WIRING

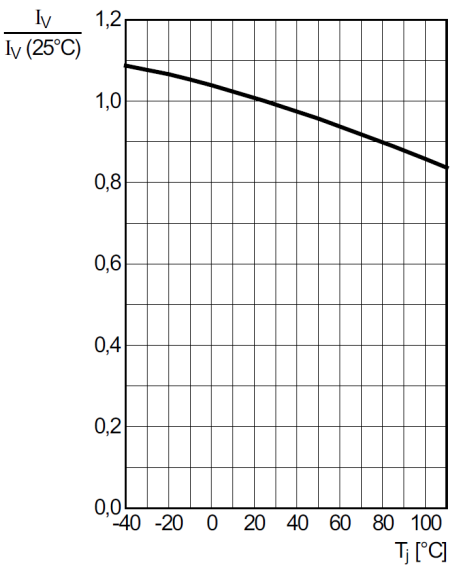
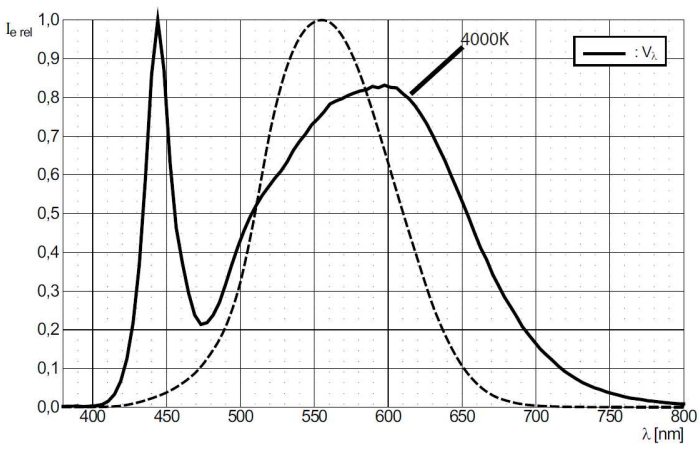


COOLING

The modules are self-cooling and a heat sink is not required. Temperature test point (Tc) for measurement should be localized in the middle of the board near LED's thermal pad. The temperature at the tc point can be measured with thermocouple or simple temperature probe.

The life of the module depends to operating temperature. Temperature at Tc should be lower than 65°C.

Relative Luminous Intensity
$I_V/I_V(25°C) = f(T_j)$; $I_{F\ LED}$ = 120mA



Relative Spectral Emission - V(λ) = Standard eye response curve
$I_{rel} = f(\lambda)$; T_S = 25 °C; $I_{F\ LED}$ = 120 mA