

Emerald Series

Indoor Downlighter



> Emerald Series Indoor downlighter

CLS Emerald Series

The Emerald Series are the ultimate downlighter series for the replacement of traditional PL and CFL downlighters in the most diverse projects.

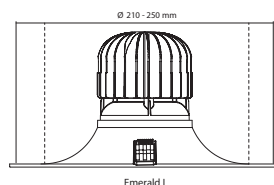
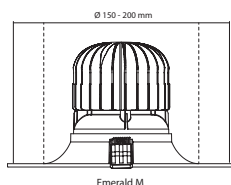
The Emerald Series is characterized by an wide choice in:

- > Power & Lumen output (Up to 4000 lumen)
- > Colour temperatures of 2500K to 4000K.
- > CRI values till ~98.
- > Dim To Warm for white tones in Human Centric light applications.
- > Various dim- and control possibilities.

The Emerald is one of the most versatile downlighters on the market and applicable in a broad range of loactions, like: offices, hospitals, healthcare institutions, schools, theatres, hotels, cinemas and retail projects.

Design suitable for existing ceiling holes from 150~250 mm

Thanks to the modular cone construction of the Emerald and the variable installation dimensions, it is possible to replace almost 98% of the existing PL and CFL fixtures. This means that you are no longer tied to one specific brand.



High light efficiency

The LED modules are specified with the emphasis on creating the perfect light image and a natural representation of the environment.

In combination with the patent pending CLS convex lens system a luminous efficiency up to 92% is achieved. All versions of the Emerald Series feature an A+ energy label.

Choise in control- and dim possibilities

The CLS Emerald Series offers a wide choice of dimming methods. Important to note is that the dimming quality is unprecedentedly high. It says everything that, with the applications in which the quality of dimming is of great importance; users choose the LED solution by CLS.

CLS offers the following dimmethods:

- > Mains Dim
- > 1-10V
- > DALI
- > Digital by means of the DMX512 protocol
- > Casambi Bluetooth



Visual comfort

CLS has developed a number of unique innovative technical solutions, which guarantee high comfort. The holder of the LED light source is created in black to prevent reflections and glare.

In the standard version of the Emerald a soft diffusion filter is applied to create a soft homogeneous light beam.

The Office version of the Emerald is fitted with a unique lens system to ensure an extremely low UGR value. Depending on the chosen LED light source, the UGR value varies from 11 to 16.





Schipper Accountants, the Netherlands

Dim To Warm

When users want to adjust the lighting according to the time of day, the season or the specific use of a room, CLS offers the possibility of an Emerald supplied with a Dim To Warm LED module. The Colour temperature range is 1800K~3000K. Control via DALI or the Casambi Bluetooth protocol.

Wide beam angle

A wide beam angle offers the advantage of fewer fixtures needed to illuminate a room. It will be obvious that this means a significant reduction in the needed investment for lighting in a project.

Optimal harmonization with any environment

To perfectly integrate the fixtures in the interior design of a room, the Emerald Series is available in the colours white and black.

In addition, CLS offers the possibility to supply the fixtures in almost any RAL colour. This provides architects and designers with the ultimate freedom to customize all fixtures to the 'corporate identity' of their clients. (MOQ applicable)

Another interesting option is to mark a route within a building by choosing different colours of the housing per route. This can simplify finding a certain department in a hospital or a Town Hall, for instance.

Low installation height

Because of the huge amount of already present installations (climate control, data cabling etc.) above the ceilings in hospitals, offices and stores, there is often less space available for lighting.

With an installation height of 165 mm till a maximum of 205 mm, the Emerald will not create any unexpected surprises during installation.



Dutch AV, the Netherlands



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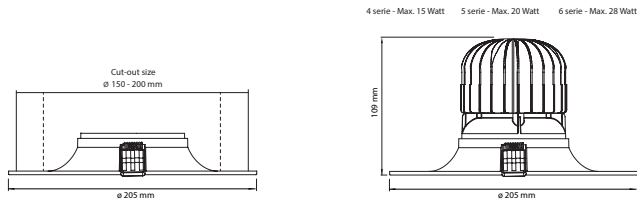
A sound investment

The Emerald Series uses the highest quality components. No compromises are made on the quality of the individual parts. The patented heat sink ensures optimum cooling of the light source so that the potential long lifespan of the LED module can be achieved.

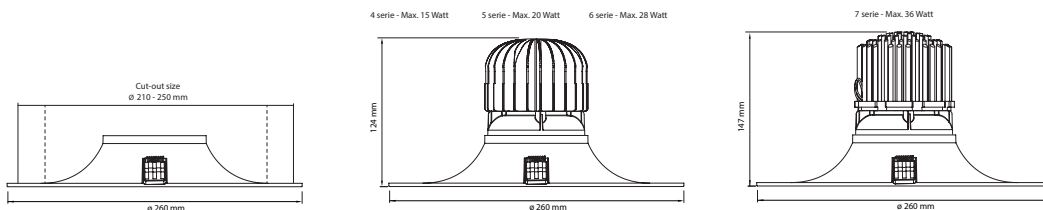
Unlike many other brands, CLS actually **designs and produces its products in the Netherlands**. Moreover, CLS belongs to a group of companies with more than 35 years of expertise in the lighting world, offering you extra long-term security.

Measurements Emerald Series

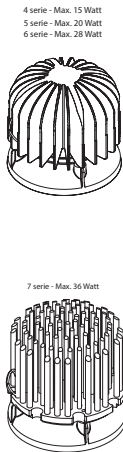
Emerald M



Emerald L



Light engine



Technical Specifications

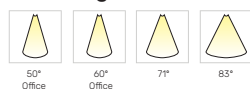
LED:	High Power LED		
Available colours:	CRI-80: 2500K / 2700K		
	CRI-92: 2700K / 3000K / 3500K / 4000K		
	CRI-95: 2700K / 3000K / 4000K		
	CRI-98: 2700K / 3000K / 3500K / 4000K		
	1800K~3000K (Only for 6 & 7 serie)		
Dim To Warm:	1800K~3000K (Only for 6 & 7 serie)		
Beam angles:	4 & 5 serie	: 71°	Office : 50°
	6 & 7 serie	: 83°	Office : 60°
Power supply:	4 serie	: 350 mA	
	5 serie	: 500 mA	
	6 serie	: 700 mA	
	7 serie	: 900 mA	

Power consumption:	4 serie	: 15 Watt
	5 serie	: 20 Watt
	6 serie	: 28 Watt
	7 serie	: 36 Watt
Housing:	PC - aluminium	
Swivel:	350° horizontal	
IP value:	IP40	
Cable length:	150 cm	
Ambient temperature:	10 °C till +40 °C	

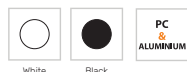
Colour temperatures



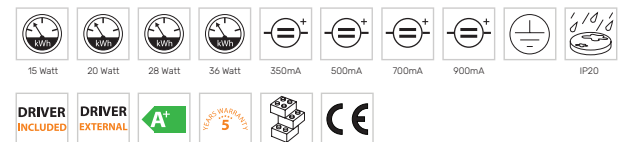
Beam angles



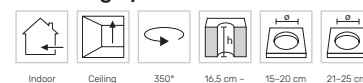
Housing



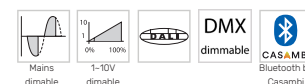
General specifications



Mounting options



Control options



* Due to continuous improvements and innovations, specifications may change without notice. All specifications are indicative, for actual values download the photometrics on our website.

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