

**TrioDim** <sup>TM</sup>

# How TrioDim Works



TrioDim stands as a testament to Purati user-focused innovation, offering a dimming scheme meticulously designed to cater to the individual preferences and applications of our users. This adaptable technology is not just about illumination; it's about creating a personalized lighting experience that aligns with the specific needs of each setting, be it a bustling office or a dynamic classroom. The **TrioDim** brand, with its logo legally protected, encapsulates this commitment to providing a tailored, application-oriented lighting solution that enhances productivity and comfort.

## Scheme



**BasicDim:** This algorithm represents the most common dimming method. As dimming occurs, both direct and indirect lights adjust in brightness simultaneously or synchronously, offering a straightforward dimming experience.



**DynaDim:** Tailored for pendant lights or standalone fixtures, this algorithm ensures an optimized balance between ambient and task lighting in diverse scenarios. During dimming:

- When the direct light falls below the set GlowRatio, the indirect light maintains its GlowRatio, offering pleasant ambient lighting.
- When the direct light surpasses the GlowRatio, the indirect light dims, ensuring optimal task illumination.



**CeilPremium:** This algorithm is tailored for ceiling-mounted luminaires, providing a dimming method aligned with typical human habits. During dimming, the indirect light dims synchronously only when the direct light falls below the GlowRatio; otherwise, the indirect light remains at its GlowRatio, ensuring pleasant ambient lighting.

## Configuration

With a DIP switch, it is easily to set a desired combination of Glow-ratio and Dimming-Mode to fit application requirement.

### Grow-Ratio Configuration

Set the on/off state for positions 1 to 3 on the DIP switch according to the desired GlowRatio.

### Dimming-Mode Configuration

Set the on/off state for positions 4 and 5 on the DIP switch according to the desired DimmingMode

For specific configurations, refer to Table 1.

Glow-Ratio of Direct/Indirect Light		Dimming-Mode					
In percentage of input power %		1	2	3	Dimming Mode	4	5
Direct	Indirect						
50	50	ON	ON	ON	BasicDim	ON/OFF	ON
60	40	ON	ON	OFF	DynaDim	ON	OFF
70	30	ON	OFF	ON	CeilPremium	OFF	OFF
90	10	ON	OFF	OFF			
95	5	OFF	ON	OFF			
100	0	OFF	OFF	OFF			

Table 1