

OUR UNIQUE PANEL FEATURES

Why is SDCM (standard deviation colour matching) so important ?

As show in the diagram below LED chip colour variation can vary considerably within the same colour temperature acceptable range.

The **GREEN** diamond shaped area is the maximum colour variation when LED chips are made. Some manufacturers will use this **SDCM** for their products resulting in very poor uniformity and colour variation, even between the products from the same batch order.

The **GREY** oval shaped area is the acceptable **SDCM** that most manufactures will use to select the led chips for there batch/product order however each batch order is usually the same however on reorder the colour temperature will most likley be different and will be noticable when installing second batch order with the first batch order.

The **BLUE** square area is the area selected for our panels this **SDCM** means that the panels will have excellent colour consistency but more importantly means that if you need to reorder for a previous project you can be assured that the colour will be the same even if the orders are years apart .

Fixed Bin Code System

Our Fixed bin code system for light source selection ensures a greater consistency in colour temperature of finished panels. Our panels use a SDCM of less than 5K in different batches, so you get the same CCT colour for every order with no visible variation in light colour between multiple batch orders.

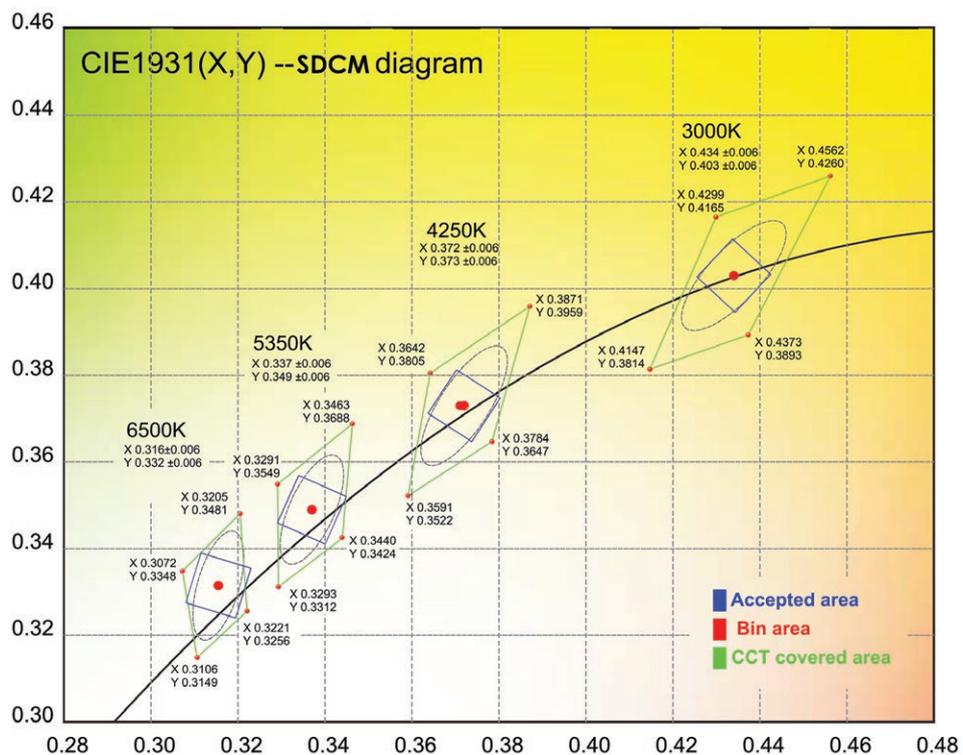


4014 LED chip Package

Our LED chips are made in house this enables a greater control over chip quality and uniformity



UGR is short for Unified Glare Rating. It measures psychological parameters of subjective discomfort to eyes caused by light from lighting devices in indoor visual environment. The values can be calculated by the regulation condition with CIE unified glare value formula.



OTHER PRODUCT FEATURES

1. PMMA light-emitting panel provides excellent uniformity and purity of greater than 90%
2. Lower decay of 3000 hours, lumen maintenance is 98.7%
3. Isolated driver means there is no direct electrical connection between input circuit and output circuit for increased safety