

# COLORS Lighting

Full-category Consistent Lighting Solution

Different Lights Consistent Lighting

1,800k~10,000k Tunable 



LED Strips



Linear Lights



Neon Strips



Downlights



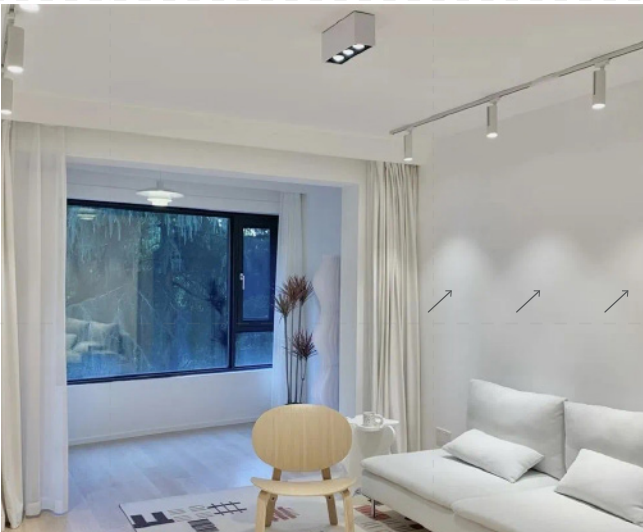
# Industry Pain Point

Under the trends of smart scene lighting and no-main-light design in high-end spaces such as mansions, hotels, and clubs, multiple types of lighting fixtures (e.g., downlights, wall washers, linear lights, flexible light strips, shelf lights, and portable lamps) are often combined for use. Due to differences in artificial light source packaging, secondary optical materials among various fixture types, as well as separate supply by different manufacturers, inconsistent light colors frequently occur in practical projects—even for products with the same color temperature in the same space. Some light appears reddish, some greenish, some transparent, some dull... Discrepancies in measured data and inconsistent human visual perception make it hard to achieve complete light color unity, leading to visual abruptness, discomfort, lack of a high-end sense in the space, and a poor psychological experience.

High-luxury spaces meticulously crafted with substantial investment fail to be perfectly presented; on the contrary, they are ruined by inconsistent light colors.



There is color inconsistency between vertical light troughs and ceiling light troughs.



Lights in different areas have color differences.



Spotlights exhibit color inconsistency among themselves.



There is a color difference in the lighting between the two vertical walls.

# What is "Consistent Light Color"?

## Definition of Consistent Light Color

In the same space, when similar illuminated objects are irradiated by different lighting products, the light color perceptible to the human eye is almost identical with no color difference. This requires that among different types of lighting fixtures or between different fixtures of the same type, their measurable color rendering properties, color temperature values, color tolerances, color coordinates, and even spectral curves are almost identical. Additionally, by controlling the luminous flux and beam angle of the fixtures to ensure consistent light intensity, when irradiating similar illuminated objects, the light color perceptible to the human eye can achieve complete consistency, excluding factors such as individual differences and racial differences in human eyes.

## The Value of Consistent Light Color



Avoid local color abruptness such as greenish and cool-toned hues.



Highlight the sense of quality and luxury of the space and items.



Create a unified and harmonious light color atmosphere.



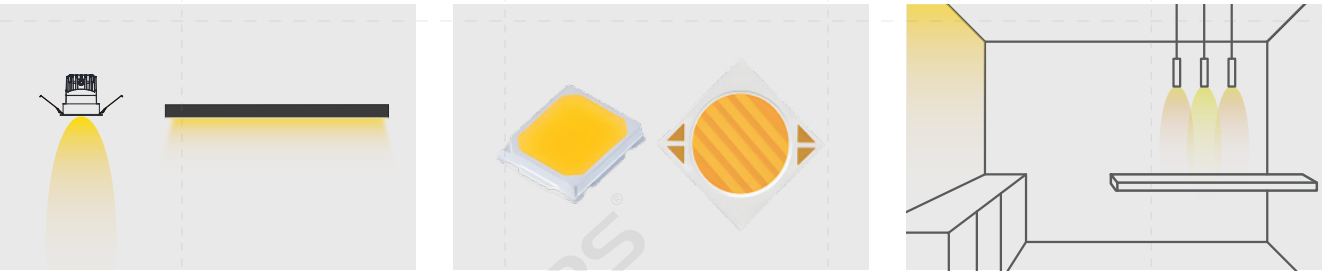
From visual to physical comfort.



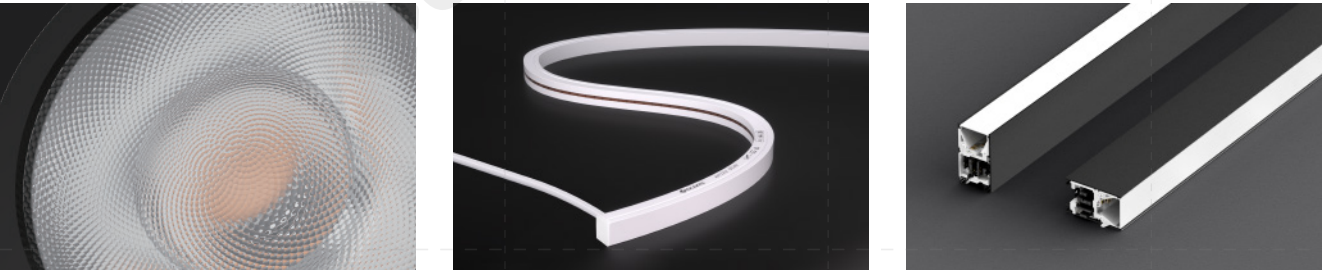
# The "Underlying Challenges" Of Light Color Consistency

## Reasons for Light Color Inconsistency

Different lighting products feature varying encapsulated light sources, encapsulation materials, and color hues.



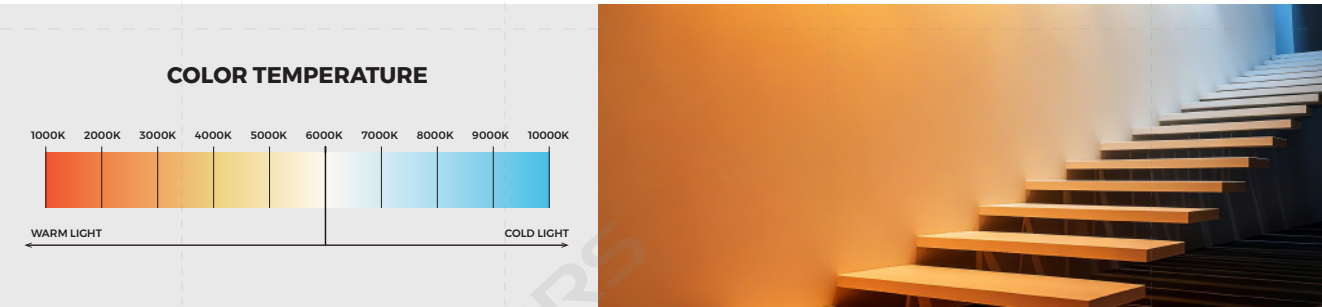
Variations in secondary optics lead to different "modifications" of light.



A single manufacturer struggles to cover all product categories required for a space.

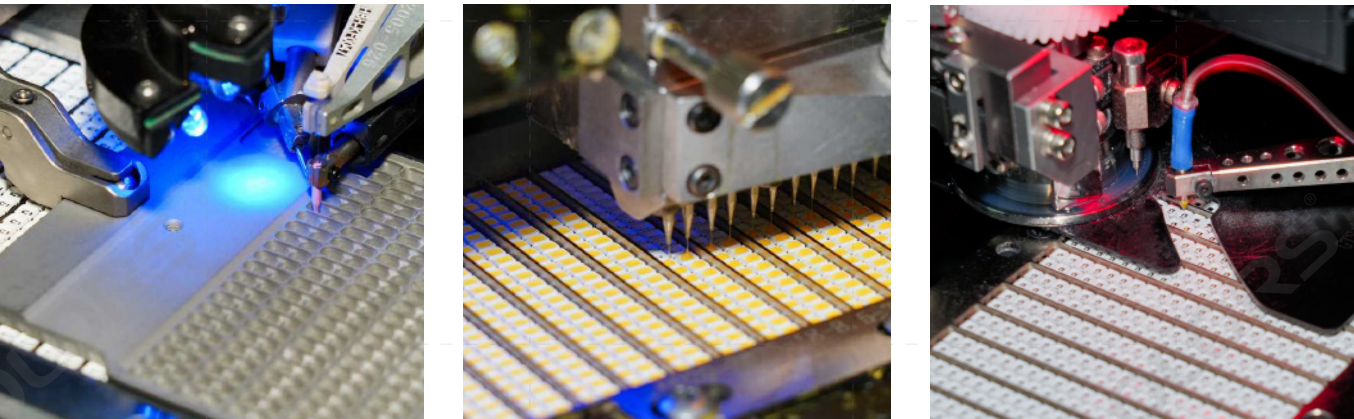


Designers and clients lack a "Pantone color card"-like measurement standard to achieve what-you-see-is-what-you-get (WYSIWYG) color realization.

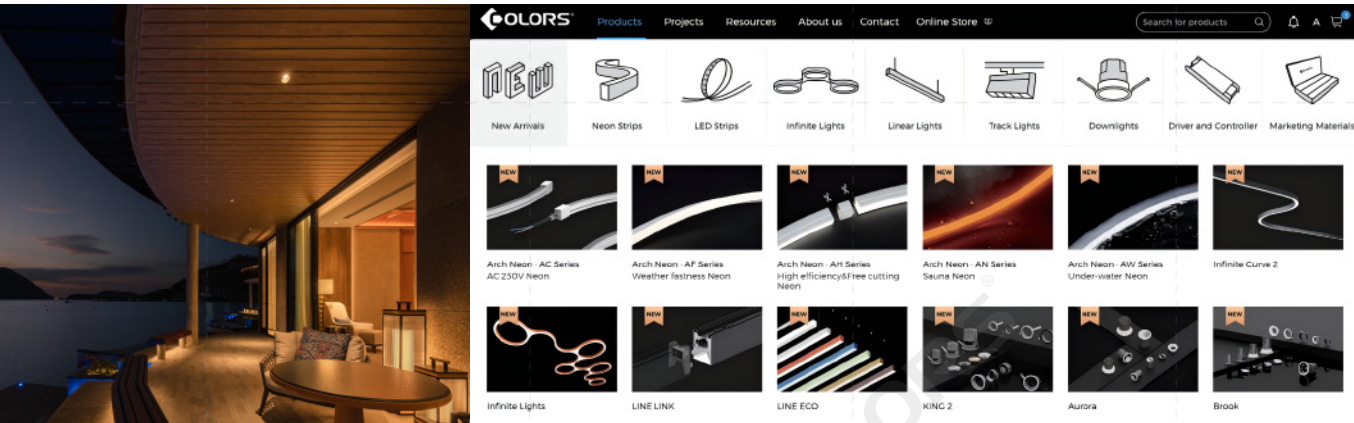


# How To Solve These Problems?

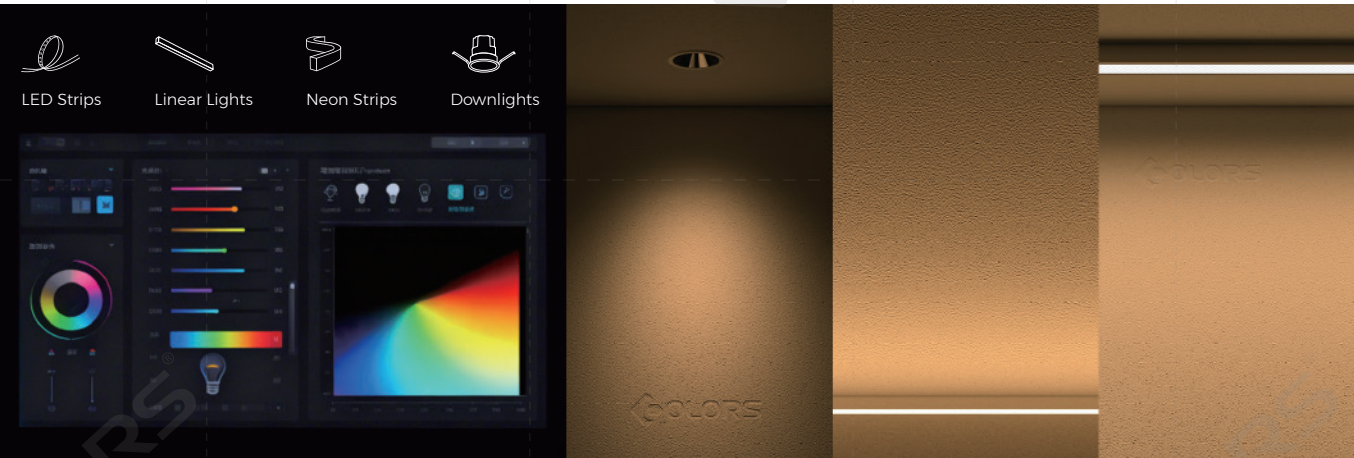
COLORS has mastered independent encapsulation capabilities for the full range of light sources.



COLORS provides full-category solutions for scenarios.



Combining software and hardware to formulate light recipes for different products.

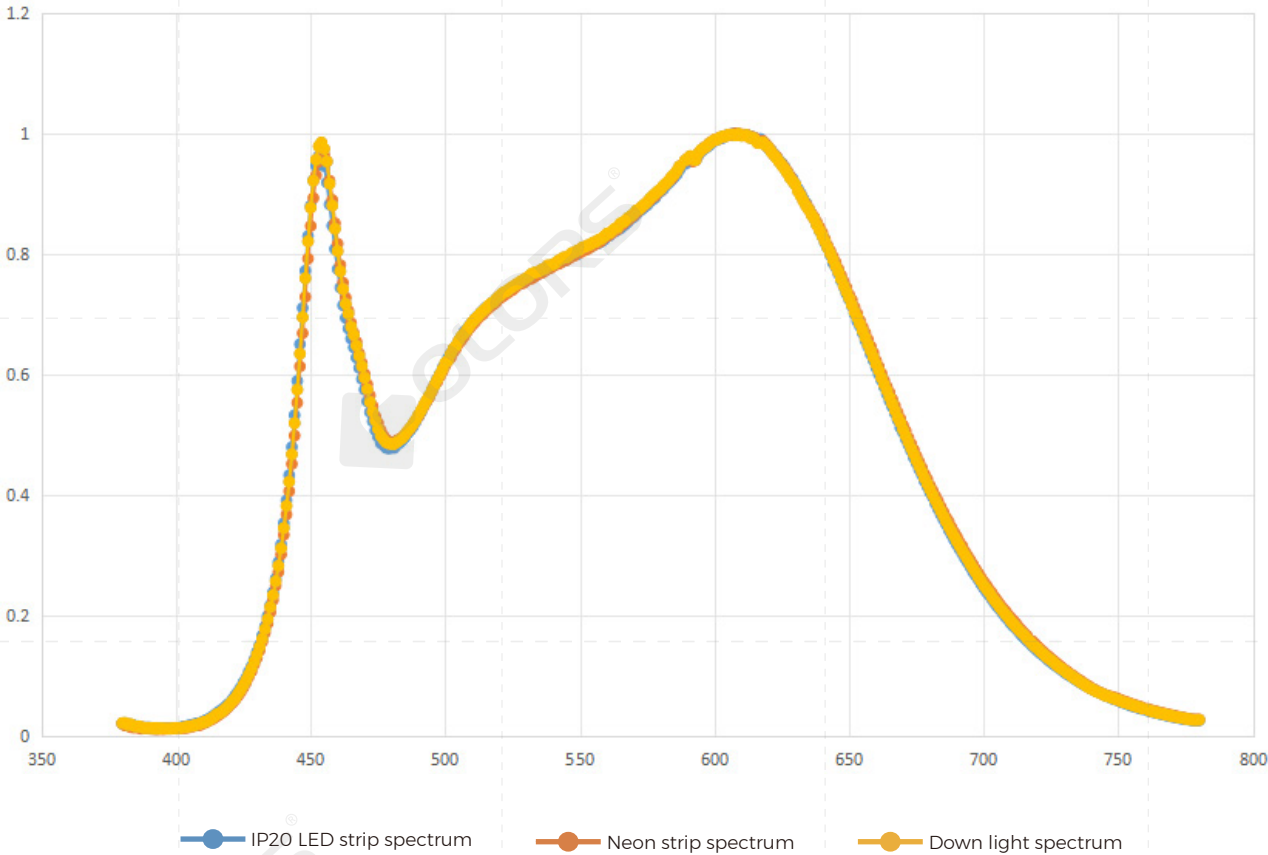




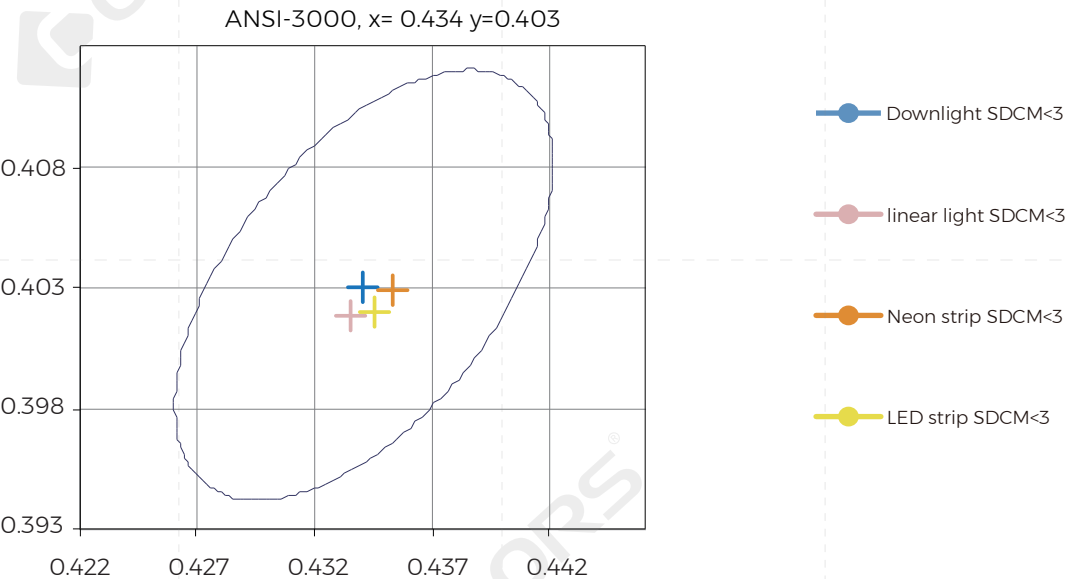
# High Standards For Light Color Consistency Across The Entire Product Range

## Highly consistent visible spectra of products

Light strips/small profiles/neon lights/spotlights – highly consistent spectral curves

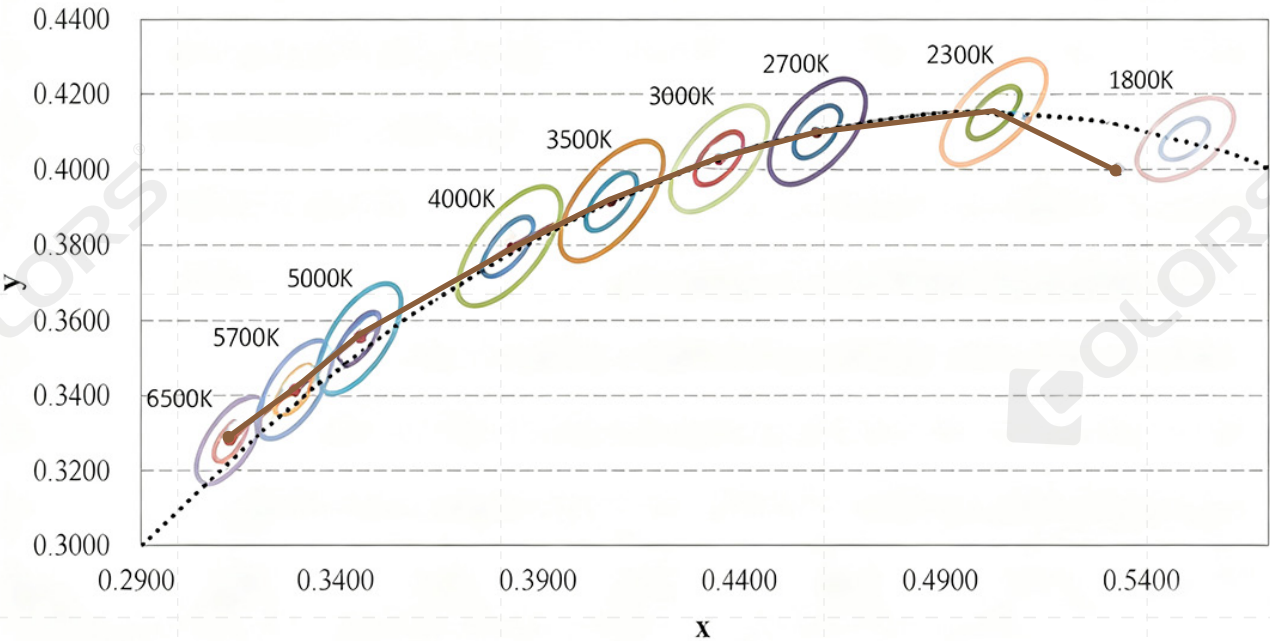


## Color coordinates are closely aligned, tightly following the Planckian blackbody radiation curve



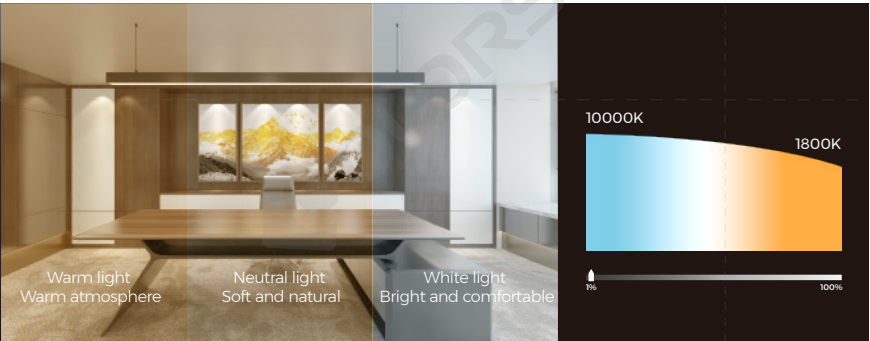
# 1800k~10000k Adjustable

## 1800K~10000K adjustable



## Value Points

For Owners:  
Color adjustment available after light installation!  
Capable of setting scenarios with different color temperature combinations.



For Designers and Engineering Contractors:  
Quickly realize showroom and color swatch definitions with a what-you-see-is-what-you-get(WYSIWYG) effect.  
Engineering contractors can achieve quick and flexible fixed color temperature delivery for projects.



# Typical Application Scenarios

Villas & Luxury Mansions, Star-Rated Hotels, High-End Clubs



# Consistent Light Color Product Combination

Demonstration of consistent light color product portfolio including downlights, spotlights, linear lights, silicone light strips, and flexible light strips



2700K

4000K

Product	Model	CCT/Color	CRI@4000K	R9	SDCM	Power	FLUX	LM/m
STRIP	PD126-24V-10mm	2700K/3000K/3500K/ 4000K/5000K/6000K	>93	>59	<0.4	10W	905lm/m	88
NEON	AFT1312	2700K/3000K/3500K/ 4000K/5000K/6000K	>93	>58	<0.2	10W	705lm/m	68
NEON	AFS1217	2700K/3000K/3500K/ 4000K/5000K/6000K	>93	>59	<0.4	10W	535lm/m	52
DOWNLIGHT	K2E75L2	2700K/3000K/3500K/ 4000K/5000K/6000K	>92	>60	<0.9	7W	400lm/m	56
LINEAR LIGHTS	LE2513	2700K/3000K/3500K/ 4000K/5000K/6500K	>94	>63	<0.4	10W	365lm/m	35
LINEAR LIGHTS	LS1613	2700K/3000K/4000K/ 6000K	>90	>63	<0.4	10W	420lm/m	35
LINEAR LIGHTS	LG1616C(N)	2700K/3000K/4000K/ 6000K	>90	>63	<0.4	10W	420lm/m	35



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