

Where Unique Services Create Smarter Spaces

UNISER

SMARTSPACES

ILLUMINATE. AUTOMATE. TRANSFORM



EYECOMFORT

Perfecting Light for Luxury Displays

Precision lighting engineered
to reveal colour, material,
texture and detail.

JEWELLERY | LUXURY WATCHES | PREMIUM APPARELS

LUXURY DESERVES BETTER LIGHT

EyeComfort is more than a standard. It is a demonstration of our capability. When we engineer our lights to meet demanding parameters for optical performance, colour quality, flicker, glare, thermal stability, consistency, and reliability, it reflects the depth of our design, engineering, testing, and manufacturing capabilities.

If we can achieve this level of precision in light, we can engineer almost any lighting challenge

LUXURY DESERVES BETTER LIGHT



JEWELLERY

Every facet matters

LIGHTING MUST REVEAL:



DIAMOND BRILLIANCE
The sparkle, fire and life of every stone.



GEMSTONE COLOUR
True, rich and natural colour.



METAL FINISH
The distinction between polished, brushed and intricate finishes.



FINE DETAILING
Craftsmanship that deserves to be noticed.



TRUE SKIN TONES
A natural and flattering experience during the consultation.



LUXURY WATCHES

Every detail deserves precision

LIGHTING MUST REVEAL:



DIAL COLOUR
True colour, depth and character.



HANDS & INDEX DETAILING
Fine details that demand visual precision.



CASE FINISHING
Polished, brushed and satin surfaces with clarity.



BRUSHED VS POLISHED SURFACES
The subtle contrast that defines a timepiece.



MOVEMENT CRAFTSMANSHIP
Precision engineering deserves precision lighting.



PREMIUM APPAREL

Every material has a story

LIGHTING MUST REVEAL:



TRUE FABRIC COLOUR
Colour as the designer intended it.



TEXTURE
The character and depth of every material.



WEAVE
The structure that defines quality.



EMBROIDERY
Fine craftsmanship without harsh shadows or glare.



LEATHER AND SURFACE FINISHES
Surface, grain and subtle tonal variations.

WHEN THE PRODUCT IS THE HERE, LIGHTING BECOMES CRITICAL



JEWELLERY

Reveal brilliance
without exaggeration



WATCHES

Reveal precision
without distortion



COUTURE

Reveal colour
without compromise

IN LUXURY RETAIL, LIGHTING IS NOT BACKGROUND ILLUMINATION.

It is part of the product experience. The right spectrum, colour rendering, beam control, glare management and visual stability allow craftsmanship to be experienced as intended.

ACCURATE COLOUR RENDERING TRUE TO INTENT. TRUE TO CRAFT.

From diamonds and gemstones to watch dials and couture fabrics, accurate colour rendering ensures that products appear closer to their intended colour and character.



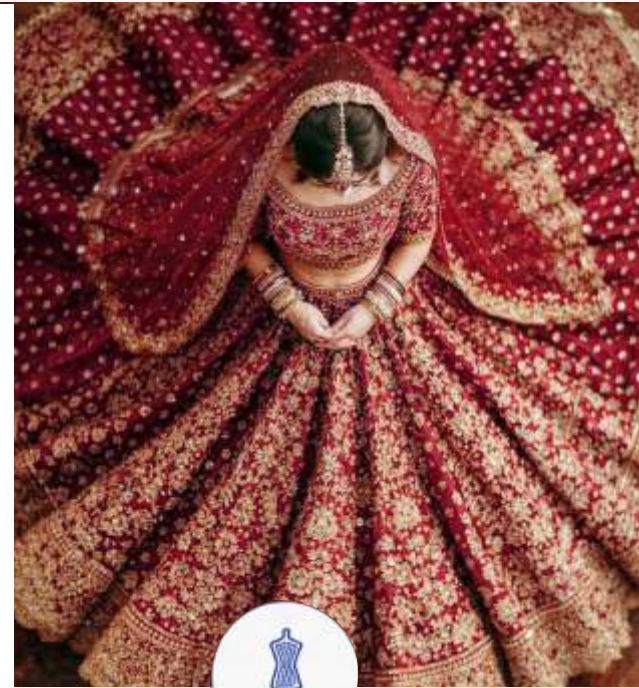
DIAMONDS & GEMSTONES

Brilliance and true colour
revealed with clarity
and natural beauty



WATCH DIALS

Every shade, finish and detail
reproduced with precision
and consistency.



COUTURE FABRICS

True tones, textures and
finishes Showcased
as intended.

In luxury retail, lighting is not background illumination. It is part of the product experience.

The right spectrum, colour rendering,
beam control, glare management and visual stability allow craftsmanship to be experienced as intended.

FROM DIAMONDS AND GEMSTONES

To watch dials and couture fabrics, accurate colour rendering ensures that products appear closer to their intended colour and character.

CONSTANT VISUAL STABILITY = MINIMAL EYE STRAIN

For extended viewing, consultation and product selection, visual stability matters. Even when invisible, flicker can contribute to:



DIAMONDS & GEMSTONES

View brilliance for longer,
without visual fatigue.



LUXURY WATCHES

Examine every detail
with lasting clarity.



COUTURE FABRICS

Experience true colours
and textures in comfort.

EVEN WHEN INVISIBLE, FLICKER CAUSES:



Eye Muscle
Fatigue



Headaches &
Migraines



Reduced
Accuracy

By eliminating flicker, we maintain steady
illumination that relaxes the visual system.

**EYES ARE MEANT TO FOCUS —
NOT FIGHT WITH THE LIGHT.**

FOR EXTENDED VIEWING, CONSULTATION AND PRODUCT SELECTION,
VISUAL STABILITY MATTERS.

When The Eye Feels Comfortable, the Product Takes Centre Stage

GLARE-FREE OPTICS=COMFORT FOR EYES

Using high-grade optics, we deliver low-glare lighting that helps reduce visual discomfort and allows the eyes to adjust comfortably. All our lights are scientifically engineered to be soft on the eyes.

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DIAMONDS & GEMSTONES

Reveal brilliance
without distraction.
Reveal the sparkle and detail
of every stone without
harsh reflections.



LUXURY WATCHES

True detail,
no harsh reflections.
Examine every finish,
dial and detail with
clarity and comfort.



COUTURE FABRICS

True colours.
Natural textures.
Experience the colour,
texture and character of
every material as intended.

LUXURY PRODUCTS DEMAND ATTENTION TO DETAIL.

Glare should never compete with the product.

Precision Lighting :
Designed for products where every detail matters

JEWELLERY | LUXURY WATCHES | PREMIUM APPARELS

BALANCED LIGHT SPECTRUM = HEALTHIER VISUAL

Controlled Blue Peak in 450–470 NM Band



DIAMONDS & GEMSTONES

True brilliance



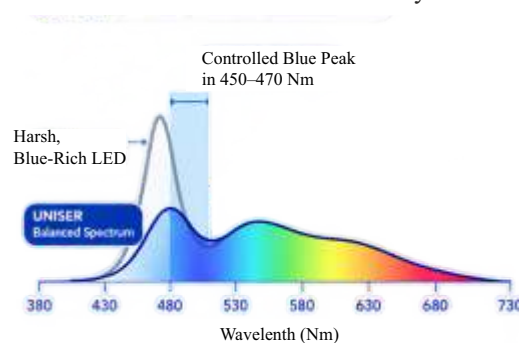
LUXURY WATCHES

Every detail revealed



COUTURE FABRICS

True colours



Harsh, Blue-Rich LEDs Can:



Increase
Glare & Scatter



Dry The
Eyes Faster



Disrupt
Sleep Cycles

Our Balanced Spectrum Ensures:



Sharper
Visual Clarity



Less Scatter
In Aging Eyes



Calm Viewing
Experience



Comfortable
Brightness

FROM DIAMONDS AND GEMSTONES TO PRECISION WATCHES AND COUTURE FABRICS,
luxury deserves light that reveals beauty without overwhelming the eye.

STABLE TEMPERATURE = STABLE LIGHT OUTPUT

Advanced thermal control ($T_j \leq 90^{\circ}\text{C}$)

Where Unique Services Create Smarter Spaces

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SMARTSPACES
ILLUMINATE. AUTOMATE. TRANSFORM



DIAMONDS & GEMSTONES

True colours. Always.



LUXURY WATCHES

Consistent brilliance.



COUTURE FABRICS

True textures. Every time.

High Junction Temperatures Can Cause:



COLOUR SHIFT
Unreliable visual judgments

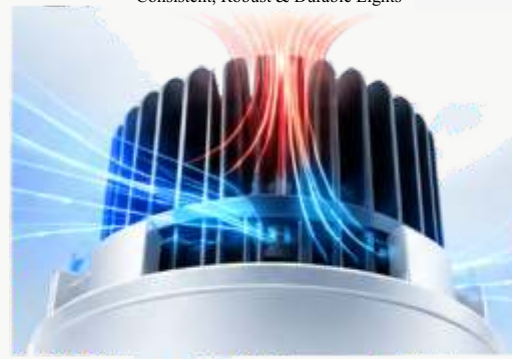


LUMEN DROP
Inconsistent illumination over time



EARLY FAILURE
of electronic components

Eyecomfort Ensures
Consistent, Robust & Durable Lights



Stable
Performance



Longer
Lifespan



Reliable
Presentation

CONSISTENT LIGHT MEANS CONSISTENT PRODUCT PRESENTATION
Today. Tomorrow and throughout the life of the merchandise being displayed.

Precision Lighting :
Designed for products where every detail matters

JEWELLERY | LUXURY WATCHES | PREMIUM APPARELS

UNIFORM LIGHT DISTRIBUTION = NO VISUAL CONFUSION

Defined Beam Angles + High Reflectance Optics



DIAMONDS & GEMSTONES

Pure brilliance



LUXURY WATCHES

True detail



COUTURE FABRICS

True colours

Uniform Light Distribution Ensures:



A STEADY
VISUAL FIELD
Eyes Respond Best
When The Brain Receives
A Steady Visual Field.



CONTROLLED
BEAM ANGLES
Creates the
correct ambience.



SPACES WITH
IDENTITY
Every Space Feels Unique
—homes, Offices,
Showrooms, Hotels, Etc.



CONSISTENT LIGHT. DISTINCT EXPERIENCES.
Jewellery Boutiques | Watch Galleries | Couture Stores | Luxury Showrooms

UNISER EYECOMFORT FOR LUXURY RETAIL

Precision Light For Extraordinary Experiences



LUXURY REQUIREMENT		EYECOMFORT APPROACH
	True Gemstone Colour	 $CRI \geq 95 / R9 \geq 80$
	Diamond Brilliance	 Controlled Optics & Beam Angles
	Watch Dial Accuracy	 High Colour Fidelity
	Metal Finishes	 Controlled Spectrum
	Fabric & Leather Colour	 High CRI / R9
	Close-up Viewing	 Low Glare
	Long Consultations	 Low Flicker
	Consistent Displays	 Thermal Stability\
	Premium Ambience	 Controlled Light Distribution



DETAILS DESERVE BETTER LIGHT
True colours. Greater beauty.

THE SCIENCE BEHIND LUXURY PRESENTATION

Precision Lighting For Luxury, Reveal Detail. Enhance Experience. Inspire Desire.



PRECISE
OBSERVATION

CRI $\geq$ 95
R9 $\geq$ 80



COMFORT FOR
SENSITIVE EYES

UGR < 19
Glare-free optics



VISUAL
STABILITY

Flicker < 1%



HEALTHY
SPECTRUM

Controlled
blue light



LONG-TERM
RELIABILITY

Thermal stability
& lumen maintenance



LUXURY IS JUDGED IN THE DETAILS

EyeComfort establishes the lighting parameters that allow those details to be seen consistently and comfortably.

DETAILED SPECIFICATIONS OF OUR LIGHTS UNDER EYECOMFORT

Performance you can trust



DIAMONDS & GEMSTONES

Pure brilliance

LUXURY WATCHES

True detail

COUTURE FABRICS

True colours



PREMIUM SPECIFICATION

Superior
Performance
Always



PHOTOMETRIC

Light
That Fits
Your Vision



ELECTRICAL & DRIVER

Reliable
by
Design



CRI / R9

CRI ≥ 95 , R9 ≥ 80



Flicker

<1%



System Efficacy

100–115 lm/W



SDCM

≤ 3



PF / THD

PF ≥ 0.95 ,
THD $\leq 8\%$



Surge Protection

4 kV



L80

$\geq 50,000$ hours



Dimming

DALI-2,
Bluetooth Mesh



UGR

< 19



Premium Brands

Nichia / Lumileds /
Osram / Bridgelux



System Efficacy

95–110 lm/W



Delivered Lumens

15W - 1500
20W - 2000
25W - 2500
30W - 3000



CCT Options

2700K / 3000K /
3500K / 4000K /
5000K



CRI / R9

CRI ≥ 95 ,
R9 ≥ 80



Beam Angles

15° / 24° /
36° / 60°



UGR

< 19



Constant-current isolated driver



PF

≥ 0.95



THD

< 10%



Flicker

<1%, PstLM
<1.0, SVM <0.4



Surge Protection

≥ 4 kV / 2.5



Dimming

DALI-2 / 0–10V /
TRIAC /
Bluetooth Mesh



OPTICS
& GLARE

See more
with
Comfort



High-reflectance
reflector

$\geq 95\%$



Lens / Diffuser

PMMA or
micro-prismatic diffuser
Balanced spectrum /
reduced blue peak



Spectrum

DETAILED SPECIFICATIONS OF OUR LIGHTS UNDER EYECOMFORT

Built For Performance. Designed For People.



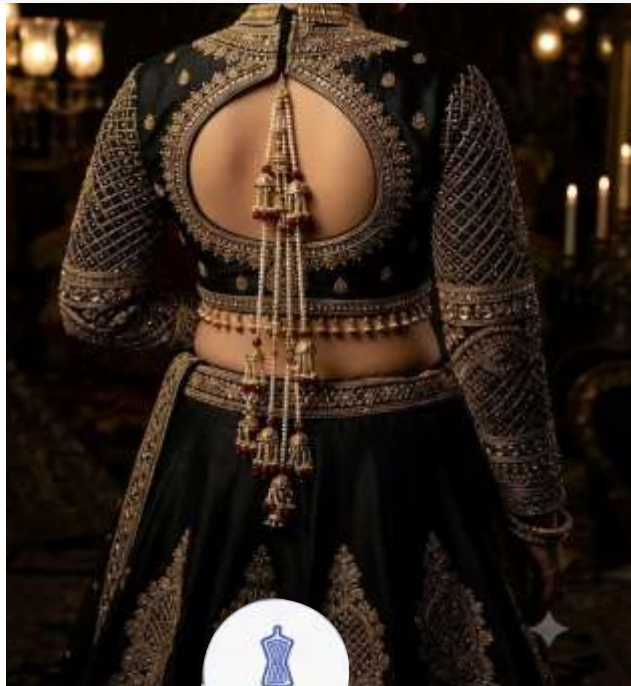
DIAMONDS & GEMSTONES

True colours. Always.



LUXURY WATCHES

Consistent brilliance.



COUTURE FABRICS

True textures. Every time.

THERMAL			MECHANICAL		
CHECKLIST ITEM	SELF COMPLIANCE		CHECKLIST ITEM	SELF COMPLIANCE	
 Heat sink aluminium 6063	Compliant		 IP20 / IP44	Yes	
 $T_j \leq 90^{\circ}\text{C}$	Compliant		 Cut-out sizes: 75 - 140 mm	Yes	
 $T_c \leq 70^{\circ}\text{C}$ (recommended)	Compliant		 Trim / Trimless options	Yes	
 $L70 \geq 50,000$ hours	Compliant				



Optimised
Thermal Design



Flexible
Installation



Built
To Last



Suits
Every Space



Consistent
Performance

BETTER LIGHT BRIGHTER POSSIBILITIES
Details come to life

PRE-DISPATCH TESTING PARAMETERS OF OUR LIGHTS UNDER EYECOMFORT

Quality you can count on



DIAMONDS & GEMSTONES

Pure brilliance



LUXURY WATCHES

True detail



COUTURE FABRICS

True colours



GENERAL VERIFICATION Quality From The Inside Out

LED brand, CRI $\geq$ 95, R9 $\geq$ 80	Compliant
SDCM $\leq$ 3	Compliant
Soldering quality & PCB alignment	Compliant
COB/SMD bin verification	Compliant



DRIVER & ELECTRICAL Safe. Stable. Reliable.

PF $\geq$ 0.95	Compliant
THD $<$ 10%	Compliant
Flicker $<$ 1%	Compliant
PstLM $<$ 1.0	Compliant
SVM $<$ 0.4	Compliant
Output current tolerance $\pm$ 5%	Compliant
Surge protection ($\geq$ 4 kV) 2.5	Compliant
Dimming down to 1% verification	Compliant



OPTICS Precision For Perfect Light

Reflector reflectance $\geq$ 95%	Compliant
Lens clarity verification	Compliant
UGR simulation $<$ 19	Compliant



THERMAL TESTS Built To Perform, Even Longer

Tc reading after 1 hour @ 35°C ambient (-5°)	Compliant
Tj $\leq$ 90°C at rated current (85°C)	Compliant
Temperature mapping across heat sink (Δ 5°C)	Compliant



Certified Components



Rigorous Testing



Consistent Performance



Reliable In Every Space



Light You Can Trust

TESTED BEFORE IT LEAVES OUR HANDS.

PRE-DISPATCH TESTING PARAMETERS OF OUR LIGHTS UNDER EYECOMFORT

Tested for a brighter tomorrow



DIAMONDS & GEMSTONES

Pure brilliance



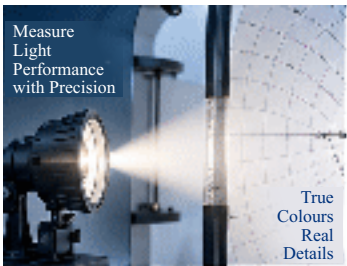
LUXURY WATCHES

True detail



COUTURE FABRICS

True colours



PHOTOMETRIC TESTS

Precision in every light



LM-79 sample test



Compliant



CCT tolerance check



Compliant



CRI + R9 measurement



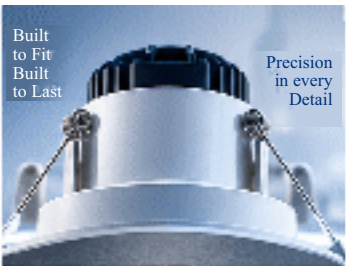
Compliant



Beam angle accuracy



Compliant



MECHANICAL CHECKS

Built to last



Fitment test for cut-outs



Compliant



Spring clip durability test



Compliant



IP20 / IP44 verification



Compliant



RELIABILITY

Tested for lasting performance



8-hour burn-in test cut-outs



Compliant



Shock / vibration sample test



Compliant



Digital batch traceability-ISD-RFID



Compliant



Rigorous Testing



Consistent Quality



Greater Reliability



Longer Lifespan

EVERY LIGHT IS TESTED FOR PERFORMANCE, PRECISION AND RELIABILITY BEFORE DISPATCH.

DESIGNED FOR THE LUXURY JOURNEY

A luxury customer doesn't just look at the product. They Experience It.



ENTRY
Create the first impression.



DISCOVERY
Guide attention.



PRODUCT
Reveal colour and material.



DETAIL
Reveal craftsmanship.



CONSULTATION
Provide comfortable viewing.



DECISION
Create confidence in the product.



Enhance Brand Value



Elevate Customer Experience



Drive Engagement



Increase Conversion

PERFECT LIGHTING FOR YOUR LUXURY DISPLAYS

The right light supports every stage of the luxury journey - from the first impression to the final decision.

Precision Lighting :
Designed for products where every detail matters

JEWELLERY

LUXURY WATCHES

PREMIUM APPARELS

LUXURY DESERVES BETTER LIGHT

EyeComfort is Uniser's approach to creating better light - a comprehensive standard that defines the parameters, testing and compliance we follow for every luminaire we design. Built by bringing together global best practices, scientific principles and industry benchmarks, EyeComfort sets a higher benchmark for how we design, evaluate and deliver light.

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