# sync5

to synchronize; to harmonize. Lighting that becomes one with the space and enriches every detail.



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#### PRODUCT DESIGN CONCEPT

#### **GLARE-LESS**

Lighting fixtures designed to minimize their presence on the ceiling by reducing their size, and to enhance the illumination of objects and spaces. These fixtures reduce unpleasant glare and create a relaxing home environment.

#### BEAUTIFUL EFFECT

These lighting fixtures are designed with a focus on creating beautiful shapes of light. From Super-Narrow beams that sharply highlight objects such as artwork to wall washers that softly illuminate walls, the extensive lineup of lighting distributions complements interior design and creates a rich, varied ambiance rather than a monotonous one.

#### SUSTAINABLE DESIGN

Our wish is for lighting fixtures to be loved eternally. We designed and engineered every detail of our fixture to keep the deep impression you felt the first time you saw it - so that the sense of beauty and emotion it brought can stay with you over time.

### FEATURED PRODUCTS













































The MINI50 GLARE-LESS series is immensely popular in hotel and residential projects. With ten distribution options and three power ranges, they are suitable for any living space. The standard cone has a mirrored finish, which helps diffuse light off the surface and reduces fixture presence to an absolute minimum, creating a sophisticated ceiling appearance. We also offer other finishes, such as the black cone for a more dramatic aesthetic, and the white cone for a softer, more natural design. Find the perfect fit for your interior space.

300 / 500 / 700TYPE 6.5 / 10.2 / 14.2W

3000K CRI83 3000K CRI93 2700K CRI93 35°

Fixed: Narrow 18° A Middle 23° A Wide 31° A Super Wide 45°

Adjustable: \Super Narrow 11° \Narrow 15° \Middle 22° \Wide 26° \Super Wide 36°





Adjustable



Wallwasher



The MINI50 GLARE-LESS series is ideal for living rooms, where various types of lighting are often combined. It ensures ample illumination for gatherings while making the fixtures seemingly disappear from the ceiling. As a result, it enhances the effects of indirect and shelf lighting, and makes features like artworks stand out.

FEATURED PRODUCTS

FEATURED PRODUCTS









Following in the footsteps of the MINI50 series, the MINI35 series offers GLARE-LESS experience in a compact package. Despite its size, the series boasts a 40° cut off angle and provides four beautiful beam angle variations. Serving as both Fixed and Adjustable, all fixtures include a 25° tilting angle and 355° rotation capability. Additionally, it incorporates thoughtful details such as the option to add a honeycomb louver.





Fixed / Adjustable





## MINI35

#### SQUARE

Fixture dimensions : 47x117

The MINI35 SQUARE is an aesthetic variation of the MINI35 GLARE-LESS series. Its rugged and technical square design adds a distinctive accent to interior spaces. You can choose and combine all beam angle variations from the MINI35 GLARE-LESS series. This series also retains the adjustable design, allowing for various configurations of base and accent lighting all in a single fixture.



















The flagship MINI50 family is now offered in a pinhole variant. It features four types of light distributions, ranging from a sharp, Super-Narrow beam to a room filling Super-Wide beam, all emitted through a small  $\,\Phi25$  aperture hole. The hole has a 10mm raised edge that softly captures light, giving the fixture an elegant appearance. The adjustable, which can tilt 30°, has a 50° cut-off angle and allows for glare-free use even on high ceilings.

300 / 500 / 700TYPE 6.5 / 10.2 / 14.2W

3000K CRI83 3000K CRI93 2700K CRI93 50° \*Fixed only 35°

Super Narrow 9° Middle 21° Wide 24° A Super Wide 37° \*Fixed only









Adjustable





The MINI35 PINHOLE offers a delicate balance of minimalism and performance, ideal for entrances, hallways, and bedrooms in luxury residences and hotels. Its ultra-compact aperture, just 20mm in diameter, emits a focused beam of light that subtly highlights specific areas without drawing attention to the fixture itself. With a 40° glare cut-off and three beam angle options, it delivers warm, comfortable illumination while maintaining visual calmness.



Marrow 16° A Middle 22° A Wide 29° Mide 29°











The MINI35 Shallow is another variation within the MINI35 family. We offer a wide selection of light distribution lineup, as well as the 20° tilting angle, while making the fixture even smaller. Available with two power ranges and honeycomb louver option for glare reduction, the MINI35 Shallow lives up to the reputation of other technical products from Endo.

150 / 250TYPF 31/56W

● 3000K CRI93 ● 2700K CRI93 ● 2400K CRI93

Wide 29° Super Wide 57° A Flood 68°

The precisely controlled light from the reflector is perfect for creating subtle accents for items displayed on places like wall shelves, niches, and minibars. In hotel guestrooms, it can even be used as a main light fixture.









## MINI30 SPOTLIGHT

Introducing our new, compact, and elegant MINI SPOTLIGHT series. The MINI30 SPOTLIGHT has a diameter of just 29mm. It's not only cute and small but also offers excellent glare control and lighting distribution. The series comes in both "zero-glare" gloss black and "soft-glow" matte black cone finishes, and also includes a honeycomb louver option for a sophisticated look. You are sure to find a suitable combination for your design.

250TYPE 5.6W

● 3000K CRI93 ● 2700K CRI93 ● 2400K CRI93

Narrow 16° Middle 22° Wide 29° Super Wide 54°

Glare Cut



Flange-mount



48V Track-mount

## MINI40 SPOTLIGHT

Designed with the same concept as the MINI30 SPOTLIGHT, the MINI40 SPOTLIGHT series packs more punch. The 700TYPE high-power range is more than capable of being used as base lighting.

500 / 700TYPE 10.2 / 14.2W

● 3000K CRI83 ● 3000K CRI93 ● 2700K CRI93

Narrow 13\* Middle 22\* Wide 33\* Super Wide 48

Glare Cut

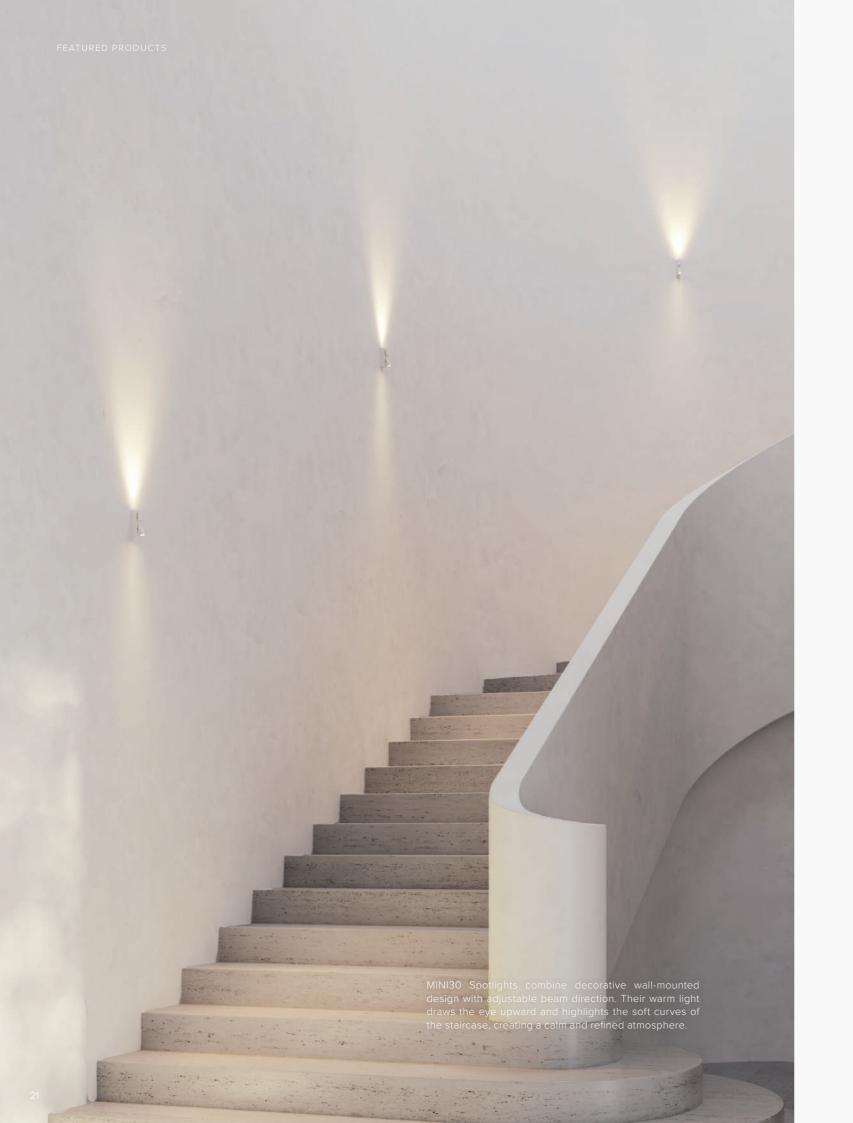


Flange-moun



48V Track-mount











MINI40







Engineered for high ceilings and expansive interiors, the ACCORD55 is a powerful spotlight that merges architectural simplicity with technical precision. Offering four beam angles from Narrow 12° to Super Wide 58°, it adapts to both accent and ambient lighting needs. Its clean cylindrical body, available in flange or track mount types, integrates seamlessly into modern spaces with exposed structures. With a built-in driver, it also simplifies installation - even in concrete slab ceilings. Optional accessories include a long snoot and honeycomb louver for enhanced glare control and visual comfort.







## ACCORD65 MR16

ACCORD65 is a compact, glare-controlled housing for LED MR16 lamps with GU10 or GU5.3 base. With a minimal aperture size of just 65mm—exceptionally\small for MR16 downlights—it allows for a clean ceiling finish without sacrificing light performance. Available in fixed and adjustable types, it's ideal for hotels, residences, and retrofit projects requiring both compatibility and elegance.

LAMP : GU10, GU5.3







Adjustable











Bathroom lighting shouldn't be compromised because of water protection requirements. Enjoy a luxurious bath experience with glare-free fixed downlights softly illuminating the bathtub, and adjustable downlights gently lighting the walls. For a more dramatic effect, consider using a narrower beam to create striking light and shadow contrasts.



## MINI/50 GLARE-LESS IP54

With the MINI50 GLARE-LESS IP54, you can safely use them in bathrooms where water may potentially splash on the fixtures. These fixtures are nearly identical to the IP20 variants in both appearance and performance, allowing them to be used side-by-side without sticking out like a sore thumb.

500 / 700TYPE 10.2 / 14.2W

3000K CRI83 3000K CRI93 2700K CRI93 35°

Fixed: Middle 23° Mide 31° Super Wide 45°

Adjustable: Narrow 15° Middle 22° Wide 26° Super Wide 36°







Fixed

Adjustable

Fixed



A compact, glare-less downlight designed for semiwet or humid environments such as powder rooms, bathrooms, or covered outdoor areas. With a cut-out size of just 35mm and beam angles up to 68°, it delivers wide, comfortable illumination while preserving a clean ceiling finish. IP54 protection ensures reliability in moisture-prone spaces without compromising on elegance or visual comfort.

Mirror:

250TYPE 5.6W

\( \text{Wide 29}^\circ \text{Super Wide 54}^\circ \)

Pinhole:

250TYPE 5.6W

↑ Wide 29°

Shallow:

150TYPE 3.1W

↑Flood 68°

3000K CRI93 2700K CRI93 2400K CRI93

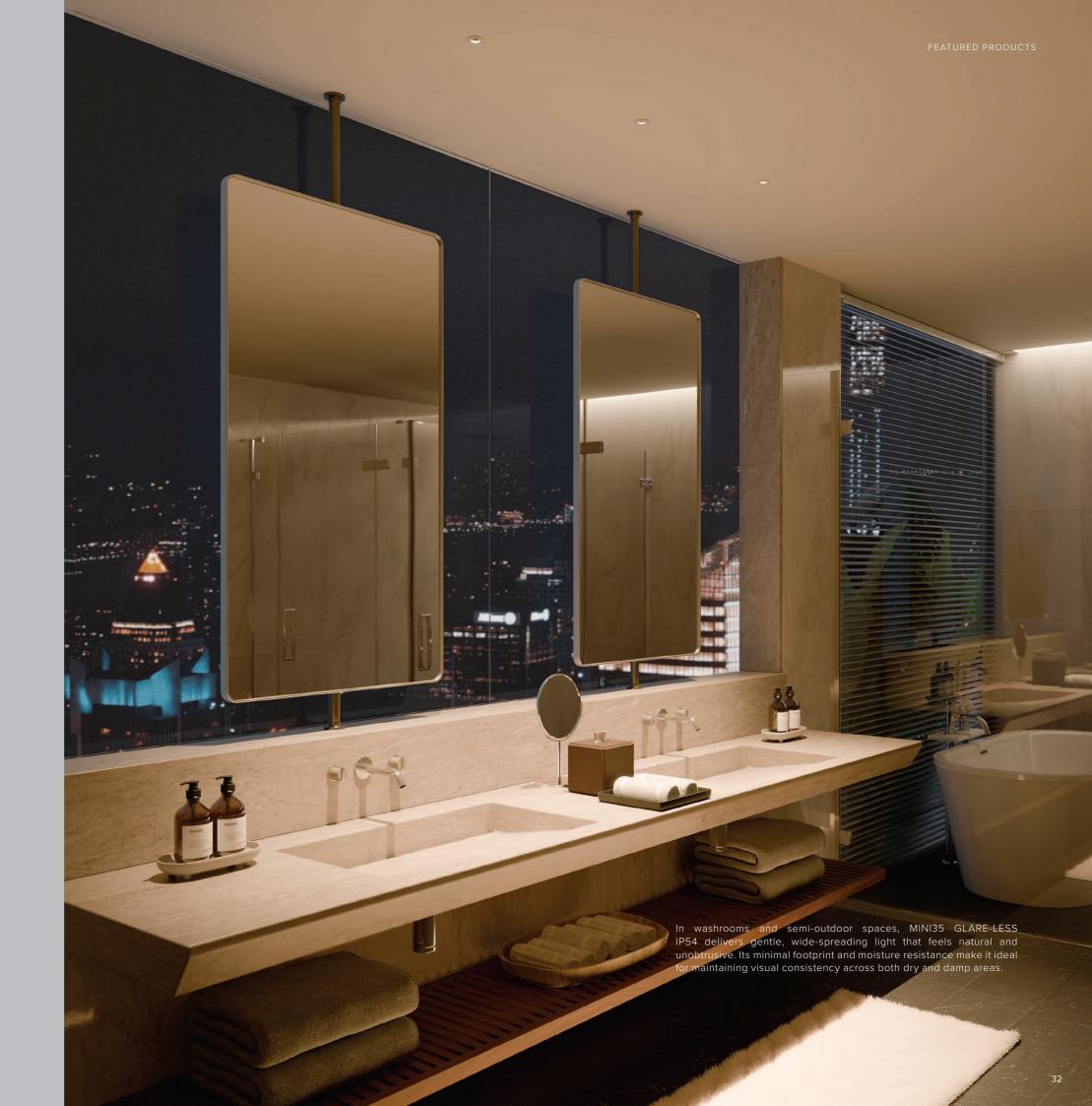


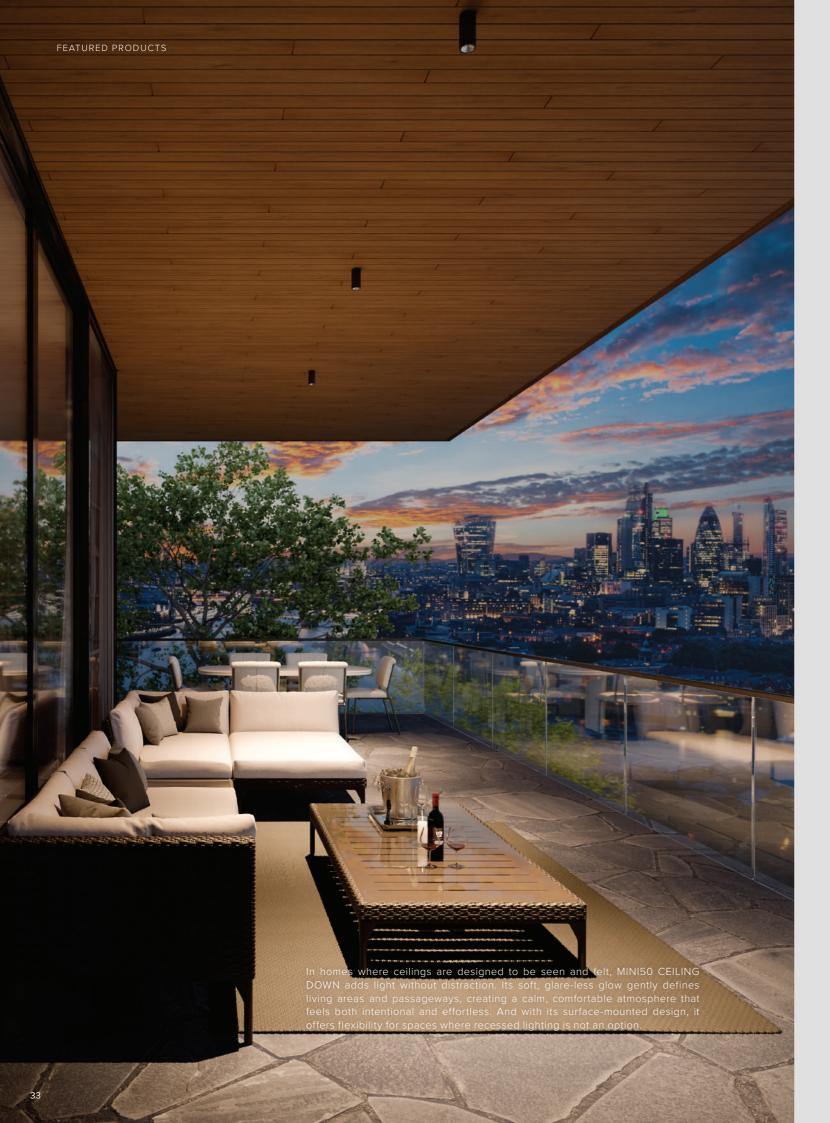




Pinhole

Shallow







A surface-mounted downlight designed for applications where recessed installation is not possible. With glare-less optical control and two beam angles - Wide and Super Wide - it provides uniform, comfortable lighting across a range of ceiling conditions. This fixture brings visual clarity and design flexibility to exposed ceilings and concrete slabs because of the built-in driver design. The IP54-rated version enables cohesive lighting design that extends seamlessly from interior to exterior spaces.

3000K CRI83 3000K CRI93 2700K CRI93 Glare Cut

↑ Wide 31° ↑ Super Wide 45°



FEATURED PRODUCTS

FEATURED PRODUCTS



## MINI50 OUTDOOR SPOTLIGHT

The MINI50 Outdoor Spotlight is a powerful 10W spotlight series ideal for illuminating trees. This series offers various beam options, including Narrow, Medium, Wide, and Super Wide. We provide a range of hood options to cater to different beam angles, including Cut-Hood, Long Hood, and Short Hood. To accommodate various installation needs, the series is available in Spike, Flange, EZ-Mount, Tree-Band, and height-adjustable Extension-Spike configurations.

600TYPE 10.1W

3000K CRI83 2700K CRI93

Narrow 14° Middle 23° Wide 29° Super Wide 42°



Extension Spike





Carrying the same DNA as the Indoor MINI30 SPOTLIGHT series, the brand new MINI30 OUTDOOR SPOTLIGHT offers the same beam angle lineup in an IP65-rated body. Powered by a 24V driver, the fixture is safe to touch and allows for the connection of around 5 to 15 fixtures in parallel. Like other models in the series, it includes glare-reducing options such as a honeycomb louver and hood. The initial release will feature a flange base and spike mount, with additional variations like the tree strap and multi-head low pole to be added in the future.



3000K CRI93 2700K CRI93

Narrow 17° Middle 23° Wide 30° Super Wide 47°



Short Hood



Spread Hood

















## MINI30 OUTDOOR BRACKET

250TYPE 4.4W

Narrow 17° Middle 23° Wide 30° Super Wide 47°
\*Special order \*Special order

Designed for exterior walls and columns, this high-performing outdoor spotlight combines a compact form with excellent beam control.lts adjustable bracket allows precise aiming, making it ideal for softly highlighting architectural textures or illuminating pathways with clarity and comfort. With its minimal body available in dark leather or silver finishes, it blends seamlessly into diverse exterior environments without drawing attention.

 $^{19}$ 



# MINI30 OUTDOOR SLENDER

Designed with a refined, minimal silhouette, the MINI30 Outdoor Slender delivers precise accent lighting without disrupting the natural landscape. Available in various heights and mounting styles, it offers flexible installation for pathways, gardens, and architectural perimeters. Its slender form disappears into greenery by day and brings clarity and elegance by night.

250TYPE 4.4W

3000K CRI93 2700K CRI93

Narrow 17° Middle 23° Wide 30° Super Wide 47°





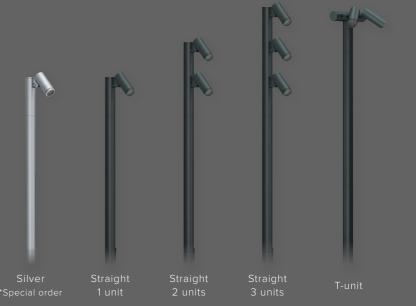
## MINI30 OUTDOOR MULTI-STACK

The MINI30 Outdoor Multi-Stack combines compact design with flexible modularity. With up to three spotlight heads mounted on a single pole, it enables simultaneous vertical and horizontal illumination - ideal for highlighting ornamental trees in courtyards while gently accenting the ground plane, such as lawns or pathways. Its precision optics and low-glare options ensure comfortable, atmospheric illumination for gardens, courtyards, and architectural landscapes.

250TYPE 4.4W

● 3000K CRI93 ● 2700K CRI93

Wide 30° Super Wide 47°





LIGHTING TECHNIQUES LIGHTING TECHNIQUES

## How to create different ambiance



#### Dramatic

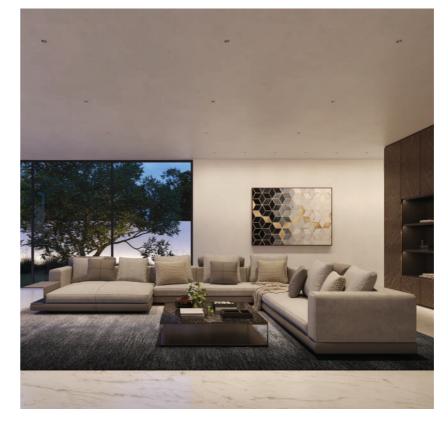
Luxurious atmosphere like a 5-star hotel lobby with narrow beams highlighting sections of sofas and tables.

REFERENCE CH: 3.2M Pitch: 1.8M × 1.8M Lux(FL+0.75M): Ave. 210Ix Max. 500lx / Min. 50lx

MINI50 GLARE-LESS Adjustable

700TYPE 14.2W | Glare Cut | 35° Middle 22°





#### Flat

Evenly lit with a wide lighting distribution. Provides good visibility and is ideal for gathering, while maintaining a modern and glare-free aesthetic.

#### REFERENCE

CH: 3.2M Pitch: 1.8M × 1.8M Lux(FL+0.75M):

Ave. 230lx / Max. 250lx / Min. 150lx

#### MINI50 GLARE-LESS

Fixed

700TYPE 14.2W 3000K CRI83

↑Super Wide 45°





#### Soft

Similar to the flat style, but with a white cone. Creates an even softer ambiance, without drawing attention to the ceiling.

#### REFERENCE

CH: 3.2M

Pitch: 1.8M × 1.8M Lux(FL+0.75M):

Ave. 230lx / Max. 250lx / Min. 150lx

#### MINI50 GLARE-LESS Fixed

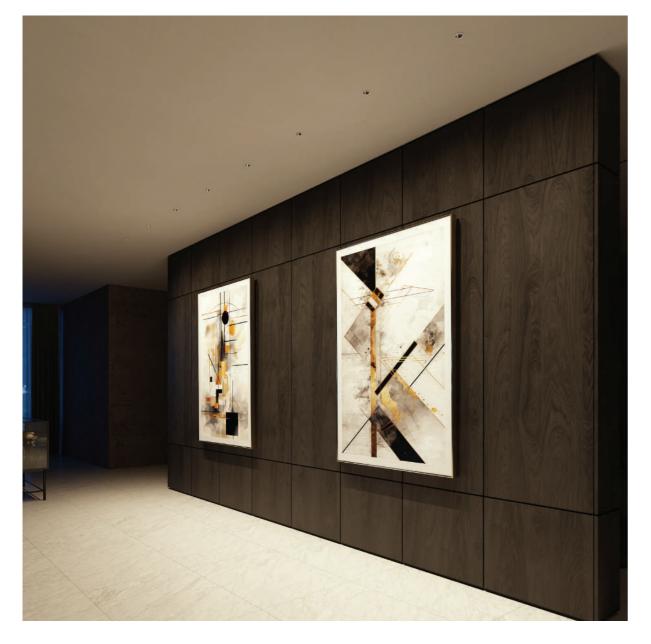
700TYPE 14.2W 3000K CRI83

↑Super Wide 45°



LIGHTING TECHNIQUES LIGHTING TECHNIQUES

## How to illuminate walls and artworks



#### WALLWASHER DOWNLIGHT

1:1 placement is key for the ideal effect. Illuminate both the artworks and the wall perfectly.

REFERENCE CH: 3.2M Offset: 0.7M / Pitch: 0.7M Lux(Artworks): 120lx

Artworks: 1.2M×1.8M

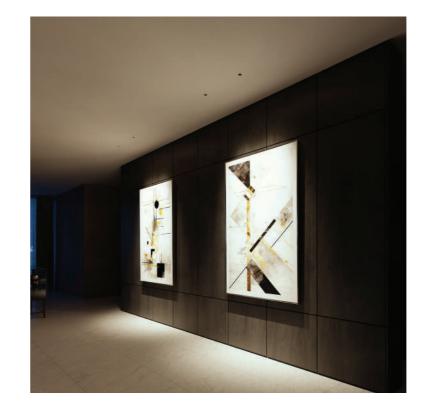
MINI50 GLARE-LESS Wallwasher 700TYPE 14.2W |

3000K CRI83

Mallwasher







#### ADJUSTABLE DOWNLIGHT

Ensure the top corners are also illuminated. Slight floor illumination creates a nice accent.

REFERENCE

CH: 3.2M Offset: 0.6M Pitch: 0.6M Lux(Artworks): 280lx Artworks: 1.2M×1.8M

MINI50 GLARE-LESS Adjustable

500TYPE 10.2W | 500TYPE 10.2W | Glare Cu

Nide 26°





The distance from the wall is key. The most effective way to make artworks stand out.

REFERENCE CH: 3.2M Offset: 1.2M

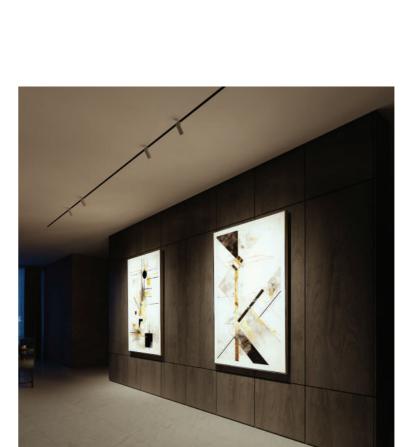
Pitch: 0.6M Lux(Artworks): 300lx Artworks: 1.2M×1.8M

MINI40 SPOTLIGHT 48V Track-mount

500TYPE 9.7W 3000K CRI83







►Wide 33°

MINI50 GLARE-LESS

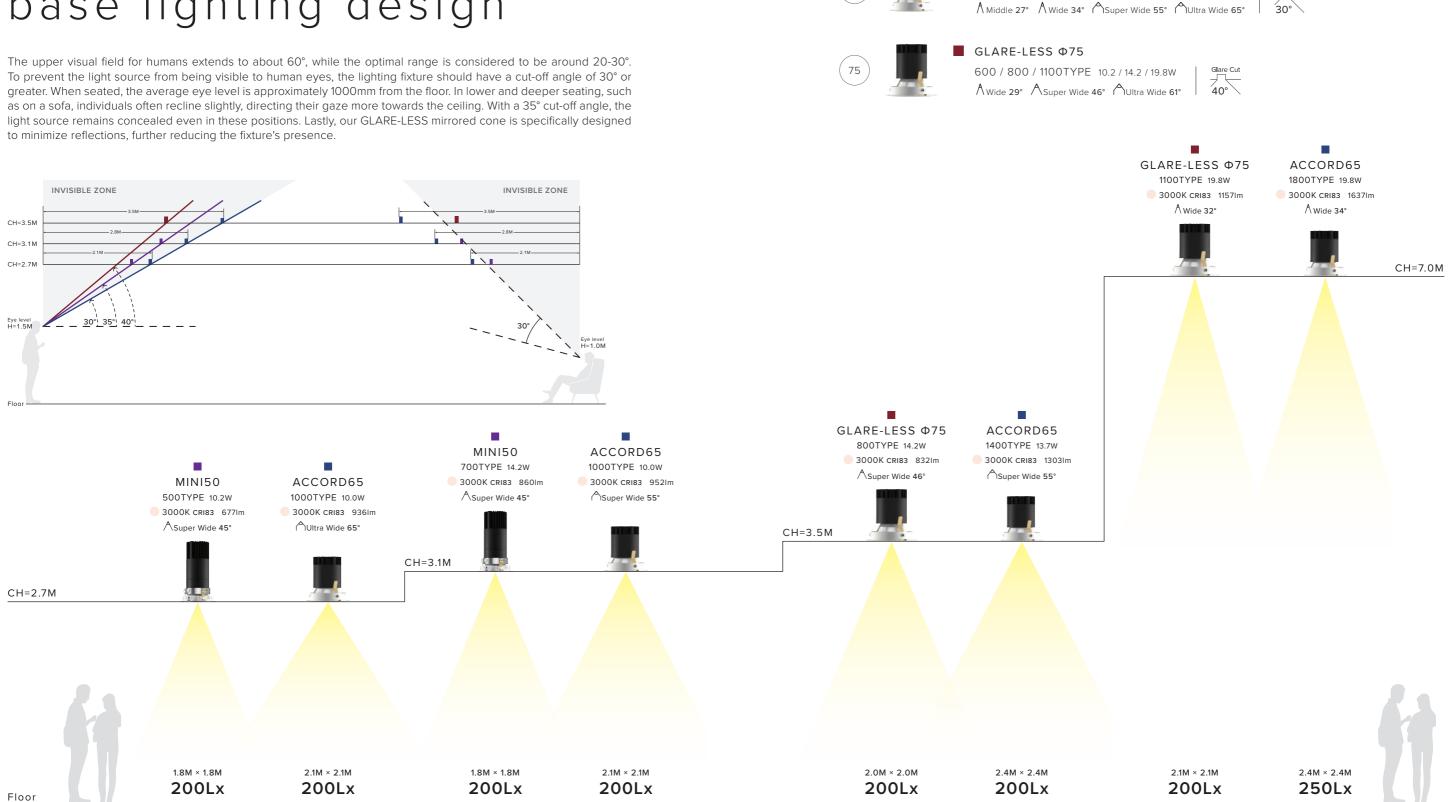
ACCORD65

300 / 500 / 700TYPE 6.5 / 10.2 / 14.2W

1000 / 1400 / 1800TYPE 10.0 / 13.7 / 19.8W

↑ Narrow 18° ↑ Middle 23° ↑ Wide 31° ↑ Super Wide 45°

# Guidelines for glare-free base lighting design







CIRCADIAN LIGHTING

SYNCA CIRCADIAN LIGHTING SYNCA CIRCADIAN LIGHTING

## Circadian lighting in living room

Circadian lighting aims to create environments where artificial lighting aligns with our natural rhythms, enhancing sleep quality, mood, and overall health.



#### **PRODUCT**

Wide 31°

A SXD1092W\_SX109N GLARE-LESS Adjustable Downlight



B SXD1091W\_SX109N



GLARE-LESS Adjustable Downlight Middle 25°

© ERK9708SA\_SAD404XA





CONTROL SYSTEM

Smart **LEDZ**. Base

FX-492W

Gateway Panel





A OFF

C CCT: 4200K | Dimming: 100%



B CCT: 3000K | Dimming: 100% C CCT: 3000K | Dimming: 70%

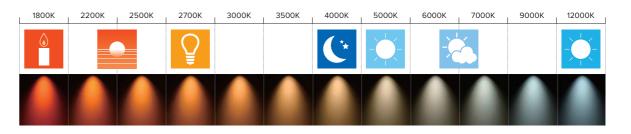


A CCT: 2700K | Dimming: 40% B CCT: 2700K | Dimming: 80%

#### C CCT: 2100K | Dimming: 30%

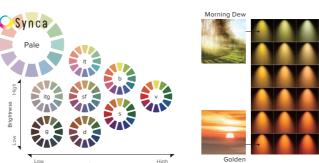
#### Bring natural light indoors

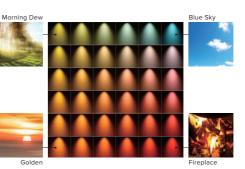
Synca aims to closely recreate natural light. From candlelight-like 1800K to blue sky 12000K, Synca offers unparalleled color temperature range to bring natural light indoors.



#### Produce 121 natural colors

Synca offers 121 colors, inspired by natural phenomenon and nature. The signature Paletone colors naturally blends into any environment.

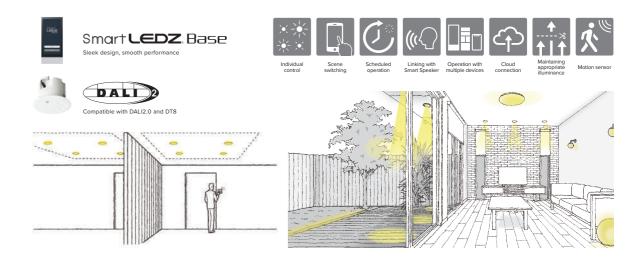






#### Versatile control compatibility

Synca is compatible with both SmartLEDZ Base and DALI (DT8), allowing seamless integration into various lighting control systems.





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