selux

M H L

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Lighting for High Risk areas in
Mental Healthcare facilities

Responsible Lighting

It's not just what we do, it's who we are. Selux believes in responsible practices around the design, development, and manufacturing of our lighting products. That includes sustainability practices and choosing the right materials, but also ensuring our products are designed for specific needs and applications.

Mental Healthcare

As of 2022, over 23% of U.S. adults were living with some form of mental illness, according the National Institute of Mental Health - that is over 59 million people. The conditions vary in type and severity, and between 50-67% of those diagnosed received treatment in either outpatient or inpatient settings.

The journey toward recovery and healing is often challenged by a range of factors, including the risk of self harm or harm to others. According to the U.S. Department of Veterans Affairs, hanging or strangulation remains the most common method of suicide within inpatient mental health facilities. As a result, all elements and products installed in these environments carry a critical responsibility from their initial design through the manufacturing process and throughout their lifecycle, to help mitigate the risk of such tragic outcomes.

Lighting with **Responsibility** and **Intention**

Defining Risk

Each area in a mental health facility must be carefully evaluated to determine the appropriate level of protection needed. An Environmental Safety Risk Assessment helps identify and reduce potential hazards to patients and staff.

Two common risk categorization methods include:

- Hunt and Sine's Five-Level System, where Level 1 requires the least protection and Level 4 the most (Level 5 is for special consideration areas like intake assessment and admission rooms).

- The NYS Office of Mental Health's Low-Medium-High system, as referenced in their Patient Safety Standards Guide.

We view these systems as complementary, with Levels 1–5 broadly aligning to Low-Medium-High categories—providing a flexible, layered approach to risk assessment.

LOW

LEVEL 1 Areas where patients are not allowed

MEDIUM

LEVEL 2 Areas behind self-closing / self-locking doors where patients are not left alone

LEVEL 3 Areas behind self-closing / self-locking doors where patients have minimal supervision

HIGH

LEVEL 4 Areas where patients spend time alone with minimal to no supervision

LEVEL 5 Special consideration areas where risks are unknown

Categorizing Risk in a Mental Health Facility

aligning two methods

SPECIAL CONSIDERATIONS

Safety Risks
in Lighting

Lighting in mental health settings presents unique safety challenges. Factors such as housing materials, lens design, hardware, construction, and mounting methods must be carefully considered. Each element can introduce potential risks — including ligature points and breakable components that could be used as weapons or for self-harm. Thoughtful design is essential to support both safety and well-being in these environments.

TERMINOLOGY

There are 3 main categories of safety risk in mental healthcare environments:

LIGATURE RESISTANCE

Ligature Point - a point where shoelaces, cords, or similar items can be tied or secured, potentially leading to hanging or strangulation.

TAMPER RESISTANCE

Tamper-resistant hardware - fasteners that require a dedicated tool and prevent patients from opening or removing fixture.

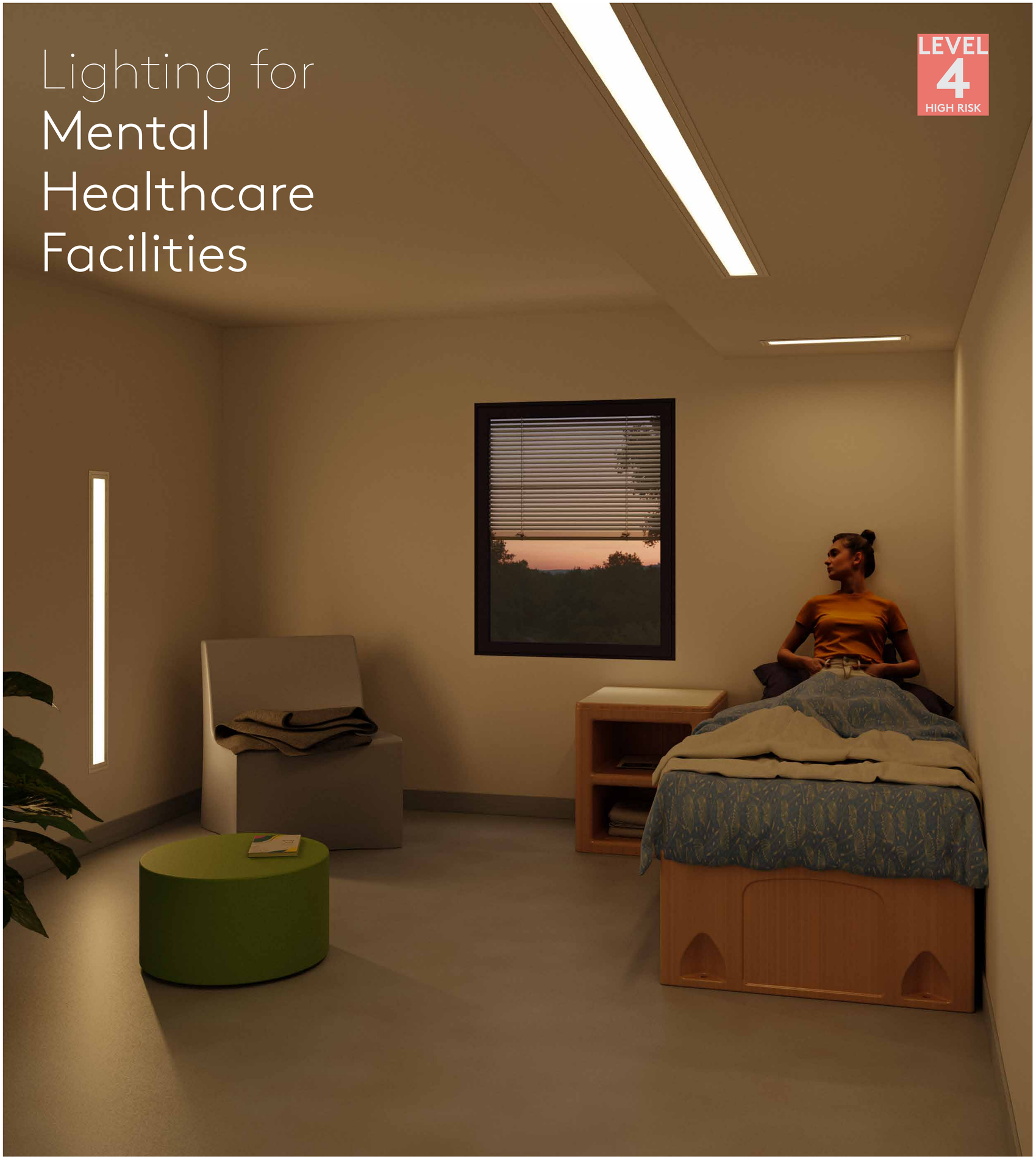
Tamper-resistant sealant - hard-setting, flexible sealant that resists picking; typically used between fixture and substrate to prevent ligature points and areas for contraband.

VANDAL RESISTANCE

Weaponization - the use of a broken lens, trim, or sharp object to inflict harm.

Ingestion - the act of ingesting broken fixture components.

Lighting for Mental Healthcare Facilities



Responsible Lighting Practices

Patient safety depends on a shared responsibility and joint effort from multiple parties. With open dialogue and transparent collaboration, together, we can provide safe solutions for all users.

Manufacturers

Manufacturers play a vital role in ensuring products perform as promised—especially when it comes to safety and reliability.

This responsibility starts with designing and producing luminaires that meet established testing and evaluation standards.

If changes are made to a product's design or performance—particularly those that impact patient-facing aspects—manufacturers must proactively inform testing teams and those who publish safety guidelines.

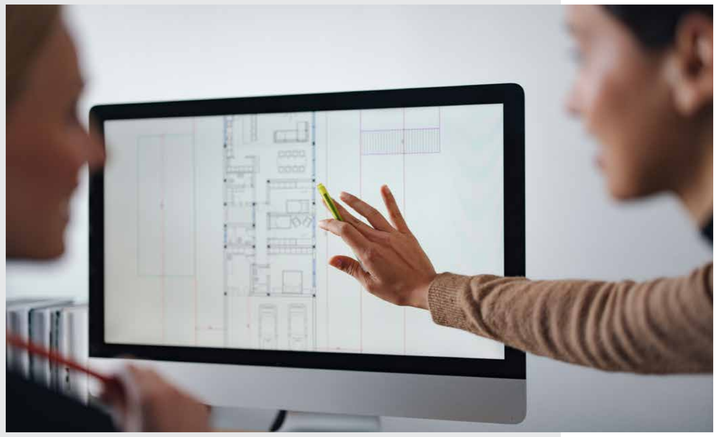
Guidelines & Programs

Guideline and program organizations serve as a critical link between product development and real-world use.

They support manufacturers, mental health facilities, installers, and maintenance teams—ensuring alignment around patient safety goals.

Their role includes advocating for stronger, more effective regulations and maintaining a feedback loop between facilities and manufacturers.

This ongoing exchange helps refine safety guidelines based on real-world conditions and emerging risks.



Facilities and Installers

Facilities and installers are on the front lines of patient safety, carefully selecting and using approved luminaires.

They rely on current safety standards to choose products that meet high benchmarks for quality and risk reduction.

After installation, thorough checks confirm proper function. Ongoing reassessments of both new and legacy fixtures ensure continued safe performance.

When updates or replacements are needed, that feedback is shared with manufacturers and guideline providers—strengthening the overall safety ecosystem.

The **MHL125** **Solution** to Safety Risks

LED options for design flexibility, including Static White, RGBW, Tunable White, and BIOS SkyBlue™.

Controls-agnostic - designed to work with external dimmers and sensors by others.

Extruded aluminum housing with die cast aluminum endcaps creates a durable and abuse-resistant luminaire.

Selection of optical solutions, providing different lighting distributions with a common appearance, so MHL125 can be used cohesively throughout a space.

Impact-resistant 1/4" thick frosted polycarbonate lens, securely retained within the lens door fame, which is then secured into the housing.

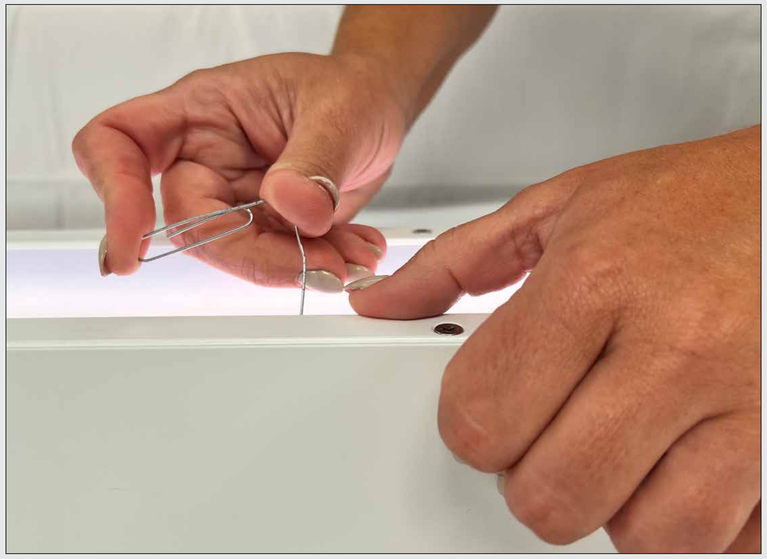
Lens door frame is designed with pressed-in parts, providing a tightly joined luminaire with no gaps, helping to prevent ligature points.

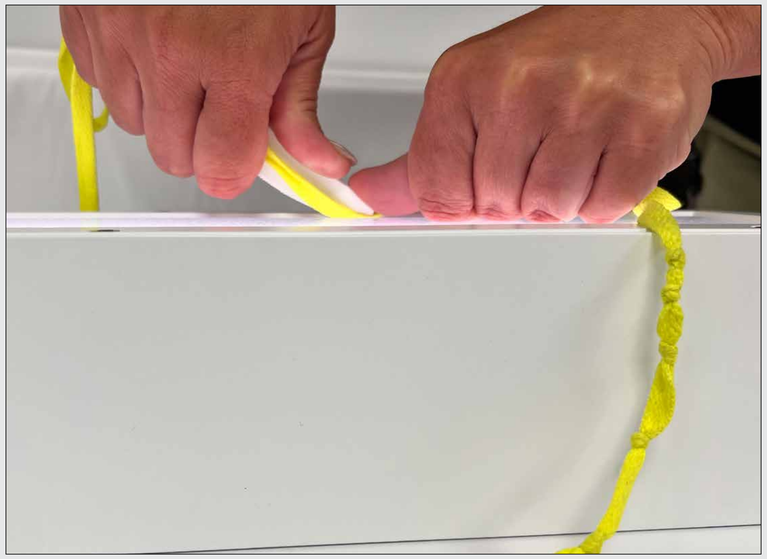
Captive, tamper-resistant stainless steel fasteners.

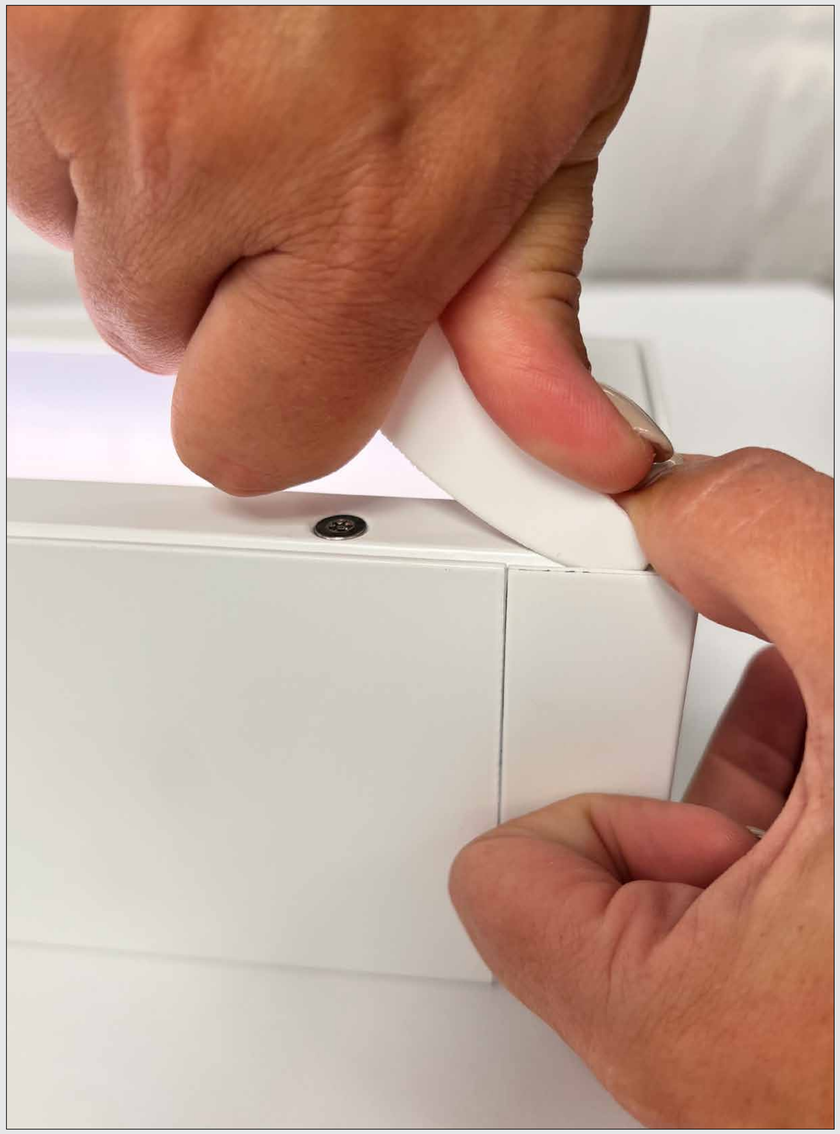
Ligature-Resistant Lighting
Engineered for High Risk Areas

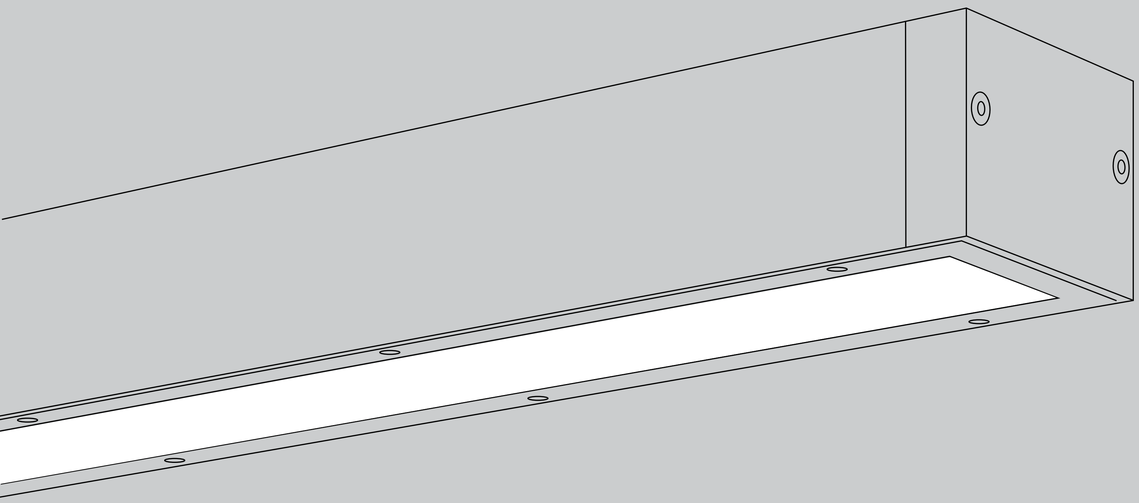
Designed to Support Patient Safety Without Compromising Performance

Designed to Eliminate Ligature Points
In mental health environments, safety is critical. The MHL125 is specifically engineered to prevent the attachment of cords, shoelaces, or similar items that a typical mental healthcare patient may have to access. Its tamper-resistant features help deter ligature attempts—reducing the risk of self-harm through hanging or strangulation.









Variety of mounting options

Product Specifications

Light Engine:
Mid-power LEDs
90+ CRI
Single or Double Row LEDs
for customized outputs

Output:
Up to 2,012lm/ft
Up to 97lm/W

CCT:
2700K
3000K
3500K
4000K
RGBW
Tunable White
BIOS SkyBlue™

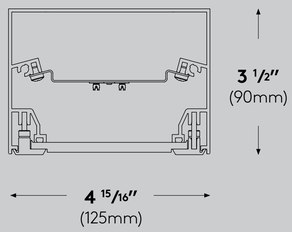
Shielding:
White Polycarbonate Lens
Satine Polycarbonate Lens
LMO Symmetric or Asymmetric

Options:
Wet Location
Anti-Microbial Paint
Faux Wood Finishes (Surface Mount only)

Emergency:
Emergency Circuit Wiring

Expanded offering NOT on approved High Risk application list includes: Runs, Suspension Cable mounting, and End Feeds.

Dimensions



Secure mounting options (surface and recessed flanged) to suit diverse architectural and behavioral health requirements.

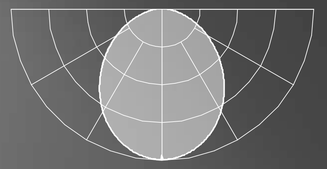
All luminaires should be installed according to the respective facility guidelines - which may include special hardware and / or pick-resistant sealant / caulk for high risk areas - and be mounted in or on materials that have also been approved for this setting.

Alternate mounting options are available for areas that do not need high risk considerations. See full range of MHL125 spec sheets for details.

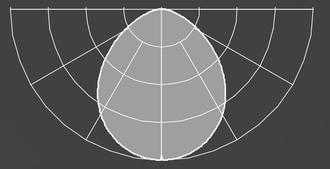
Optical Options
to meet diverse design requirements

In addition to its durability for mental health environments, the MHL125 provides a variety of optics offering a range of lighting distributions. All options include 1/4" thick polycarbonate lens (either diffuse or satine) to comply with common mental health application requirements for light fixtures, and to provide IK10 protection.

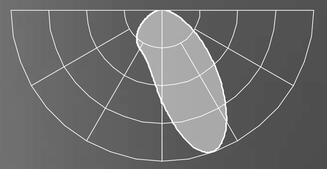
Mix and match distributions throughout a space to fully customize the light needed, while maintaining a cohesive fixture design language.



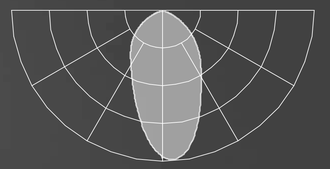
(LP) - LED Optimized White Polycarbonate Lens



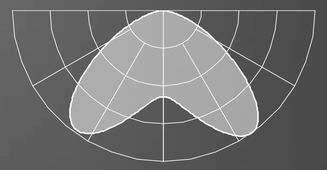
(PNB) - LMO Symmetric behind Satine Polycarbonate Lens



(PA2) - LMO Asymmetric 20° Wall Washer behind Satine Polycarbonate Lens



(PA5) - LMO Asymmetric 5° Wall Grazer behind Satine Polycarbonate Lens



(PBW) - LMO Batwing behind Satine Polycarbonate Lens

up to **2,012** lm/ft

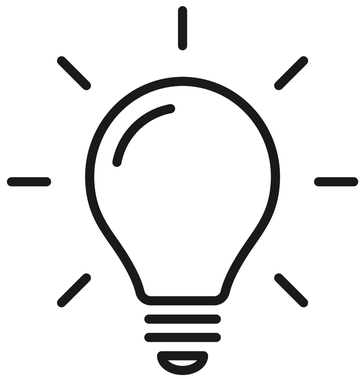
up to **97** lm/W

Powerful, purposeful, protected light

Lighting Strategies That Balance
Safety, Comfort, and Control

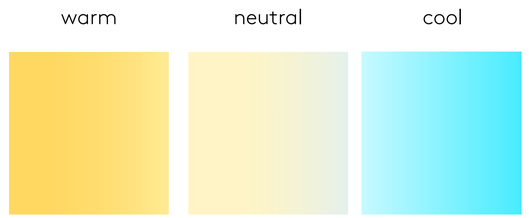
Why Static White Is Often the Preferred Choice

In behavioral health environments, static white lighting is commonly used for its simplicity, reliability, and calming effect. Its consistent output reduces visual stimulation and supports a stable atmosphere for patients. With fewer controls and components, it minimizes maintenance needs and the risk of disruption—making it a safe and practical solution for 24-hour care facilities.



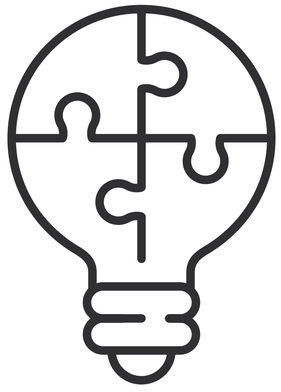
Adapting to Tunable Lighting Needs

MHL125 design considers not just fixture safety, but also the variety of settings within a mental health care facility it will be used. Tunable White lighting allows for varying color temperatures within the same luminaire, which can be changed depending on the time of day, the activity taking place within the space, or the occupants' comfort.



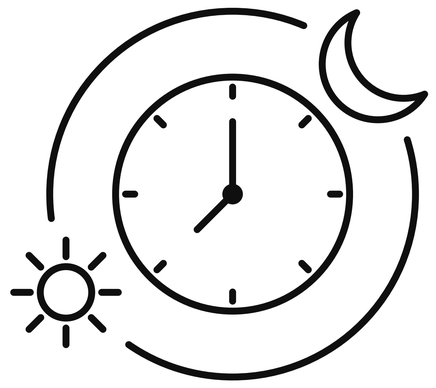
Sensory, Comfort, and Stimulation

RGBW lighting can be used throughout mental health care facilities, but is typically found in active areas - sensory rooms, multi-purpose rooms, and sometimes therapy rooms. Changing the color of the lighting brings an excitement to the space, engaging patients and helping with healing.



Supporting Wellness Through Circadian Lighting

Many behavioral health care facilities are 24-hour and cater to multiple audiences - residents, shift workers, and visitors all have varying sleep schedules. Using light engines designed specifically with circadian rhythms in mind helps provide the right wavelength of light at the right time. BIOS SkyBlue™ focuses their technology around the 490nm blue peak, which has proven impacts on daytime circadian signals.



Linear Lighting
for Patient Bedrooms

MHL125 in patient bedrooms is effective for creating a restful, safe, and supportive healing environment. The mental health design features will maintain patient safety while providing high quality ambient or task lighting.

Using dimming, Tunable White, or BIOS SkyBlue™ in MHL125 can help support patient circadian rhythms and changing lighing needs throughout the day.

Lighting Solutions for Patient Bathrooms

MHL125 is an excellent choice for patient bathrooms. With an IP65 enclosure, it is safe for use in these damp and wet environments.

The options for output and distribution allow for flexibility in design and creation of a well-lit space that is safe and effective for daily hygiene tasks.

Choose comfortable diffuse lenses to minimize reflections on wet surfaces or to provide soft, flattering, vanity lighting. Wider distributions help provide full-room lighting with fewer luminaires.

LEVEL 3
MEDIUM RISK

MHL125 Recessed - for wall grazing or wall washing to add depth to a space

MHL125 Recessed - maximizes ceiling height, supporting aesthetics and safety

LEVEL
3
MEDIUM RISK

MHL125 Surface - mounted within recessed cove for floating ceiling effect and depth of the space

MHL125 Surface - mounted between wood slats, with complementary faux wood finish

Versatility across settings

Linear Lighting for **Corridors and Lounge Areas**

MHL125 plays a vital role in mental health facilities by providing safe, consistent, and calming illumination that supports both patient well-being and staff performance. Recessed linear fixtures integrated into security ceilings and millwork offer a clean, tamper-resistant solution that reduces clutter and enhances safety. Surface mounted fixtures in soffits provide warm, discreet illumiations that contributes to a comforting, therapeutic atmosphere.

MLH125 is a great choice for corridors and lounge areas, as well - with single luminaire lengths up to eight feet, it lengthens hallways while providing low glare illuminations. Tunable White or BIOS SkyBlue™ LEDs can support staff circadian rhythms in spaces where lighting is needed 24/7.

Lighting for Justice, Health, & Intervention

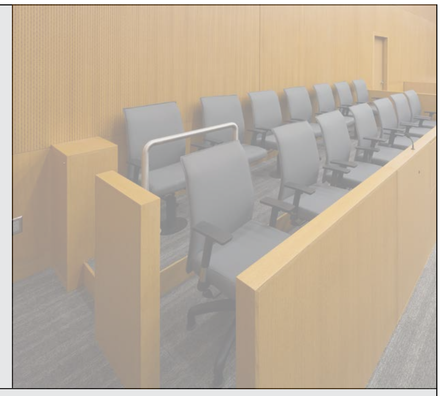
Originally developed to meet the strict safety requirements of behavioral health environments, Selux MHL125 is also a top-performing solution for a wide range of high-security applications. With its tamper-resistant construction, IP65 rating, and ligature-resistant design, it is built to withstand the rigors of detention wings, protective custody units, youth intervention programs, secure medical suites, and courtroom holding areas.

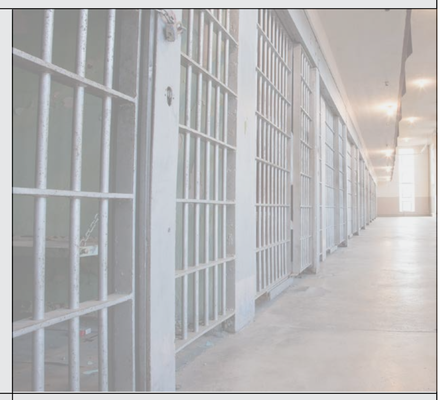
Selux offers a robust portfolio of luminaires, both within and beyond behavioral health needs, engineered for abuse-resistance, moisture protection, and long-term performance in high-risk settings. Whether you're outfitting a correctional facility, juvenile housing unit, or mental health treatment ward, Selux fixtures deliver the safety, reliability, and clean architectural design required in today's most demanding environments.

From intake to intervention, Selux has the right luminaire for every level of risk.

Treatment Centers

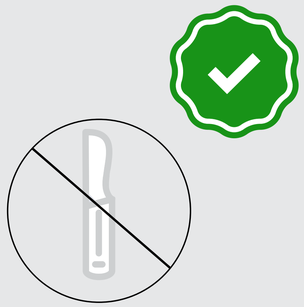
Courtrooms / Holding Areas





Correctional Facilities

Detention Units



Third-party verified ligature-resistance testing - MHL125 went through rigorous in-house testing using common materials to ensure safety and design integrity. Once internal standards are met, a trusted third-party conducts independent testing to verify ligature-resistance before the product is finalized.

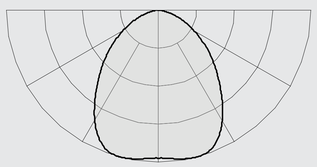
IK10

IK10 - tested and proven to withstand forces exceeding 20 joules from external mechanical impacts, the housing and 1/4" thick polycarbonate lenses are made from safe, sturdy materials.

IP65

IP65 - dust and watertight, MHL125 is protected against waterjets in accordance with IEC 60598-1 (IEC 60529), and is suitable for areas that are hosed down or for exterior applications.

UL Certification - MHL125 carries UL Certification, verifying that it meets stringent electrical safety, thermal performance, and mechanical load testing standards. This ensures reliable operation in demanding environments while reinforcing its tamper-resistant, impact-rated design. UL compliance provides added peace of mind for behavioral health applications, where safety, durability, and code compliance are essential.



Photometric testing (LM-79) - a full range of photometric testing of all lensing and distribution options means that lighting designers can choose the right lighting for each area, using 3rd- party verified test data.

Backed by Testing. Proven in Performance.

Quality that's verified.

Declared with Integrity. Trusted by Design.

Our commitment to transparency isn't just a label — it's a promise. Every product is verified, safety-tested, and built reliably in our Highland, NY facility to earn your trust.

Declare.

MHL125
Declare label for our interior luminaire

Declare is a platform to share and find healthy building products. Manufacturers willingly disclose product information that can be found on the Declare labels. These labels are then accessible on a free and searchable database used by prominant designers, real estate owners and home owners, to specify products they know they can trust and that meet the requirements of leading green building standards, including Core Green Building, LBC, LEED, and WELL Certification.

Declare has positively changed the materials marketplace to enable the creation of buildings that support human and environmental health and has made it extremely easy to facilitate and simplify the exchange of information.

Selux is also proud to be a Living Future Corporate Member. With this credential, Selux is recognized for its proficiency in the world's more ambitious, advanced, and holistic sustainable design standards.

With these credentials, you can trust the MHL125 to deliver reliable, high quality performance with confidence.

Declare.

MHL125
Selux Corporation

Final Assembly: Highland, New York, USA
Life Expectancy: 5 Year(s)
End of Life Options: Recyclable (90%), Landfill (10%)

Ingredients:

Aluminum; Aluminum Extrusions; Propylene Carbonate; LED Driver[1]; Stainless Steel; LED PCB; Steel; Terminal Block[1]; Galvanized Steel; Cooper; Nylon 6

[1]LBC Temp Exception RL-002 - Small Electrical Components

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free
■ LBC Red List Approved
☐ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
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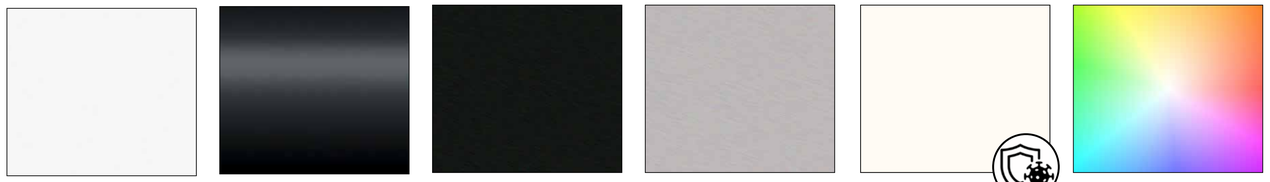
CORPORATE MEMBER

Selux Metal Finishes



WH
White

BK
Black,
Glossy

BL
Black,
Semi-Matte

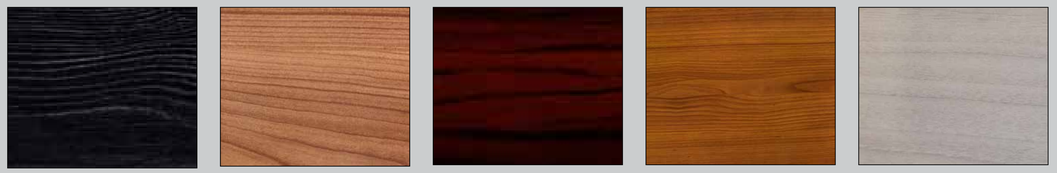
SV
Silver

AMW
Anti-Microbial
White

SP
Custom
RAL finish

Anti-microbial paint helps maintain a cleaner, safer environment by inhibiting the growth of bacteria, mold, and mildew on surfaces. It's ideal for mental health facilities, supporting infection control and reducing maintenance over time.

Selux Faux Wood Finishes



CR
Charred
Rosewood

CC
Cream Cherry

RO
Red Olive

LC
Light Cherry

WA
Weathered
Walnut

Extruded housing is finished in faux wood through a multi-stage powder coat and sublimation process - the endcaps and lens door frame are finished in Selux White as standard, to finish the sleek look. For other finish combinations, please consult factory.

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