



# Best Practices for Healthcare Lighting

## Behavioral Health



**RICHARD**  
Regional Manager - West



**SCOTT**  
Regional Manager - Central



**CHAD**  
National Sales Manager



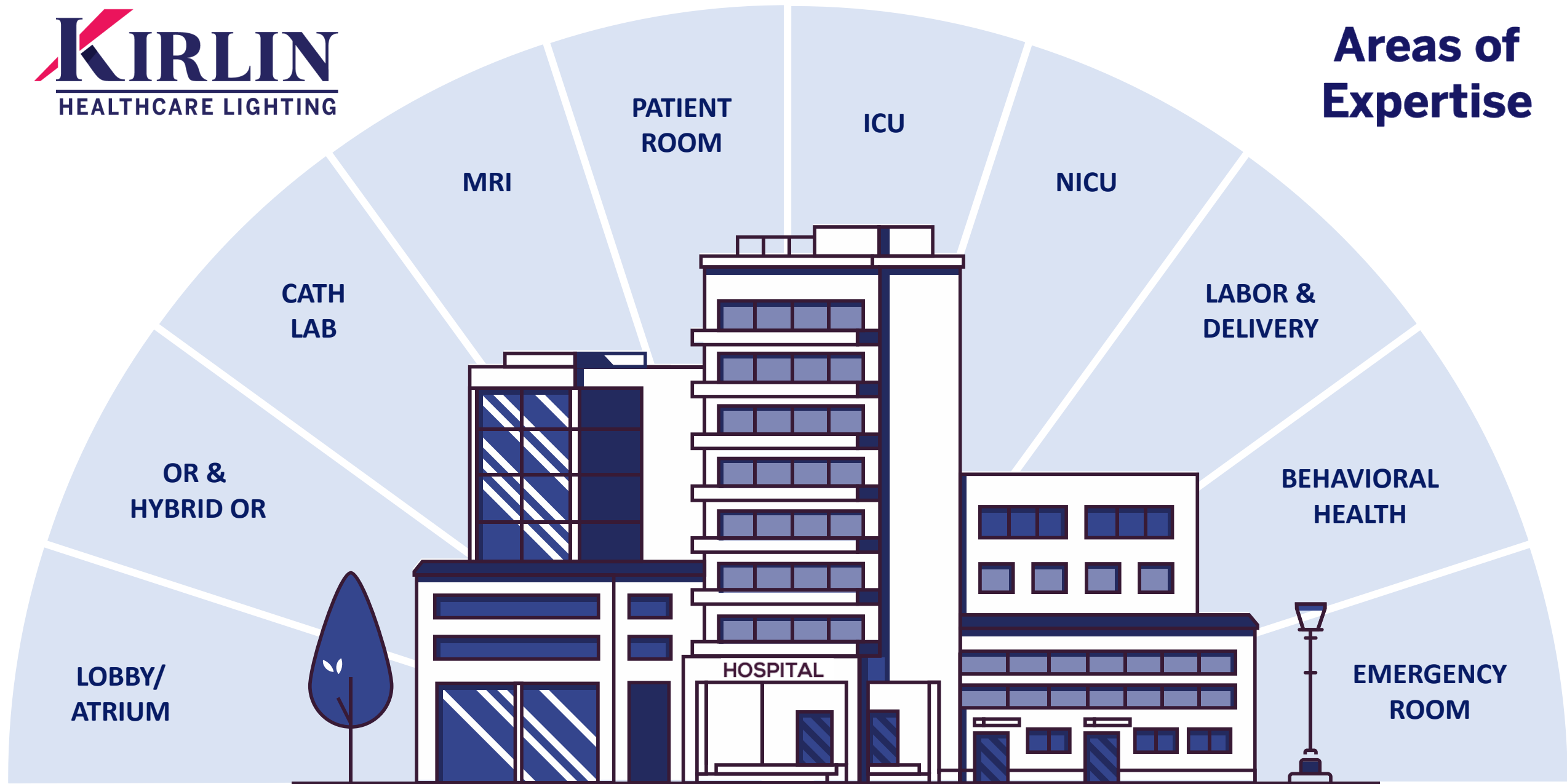
**CHRIS**  
VP Sales & Marketing

# Key Focus Areas

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## Areas of Expertise





## Areas of Expertise



# Behavioral Health by the Numbers (Pre-COVID)

**1** in **5**

Americans live with a  
behavioral health disorder

**+31%**

Increase in overall U.S. suicide  
rate since 2001

## In the Hospital

**1** in **8**

Emergency Dept.  
visits involve  
behavioral health  
conditions

**415%**

Increase in ED  
visits due to  
suicidal ideation

**#1**

Mood disorders are  
the leading cause of  
hospitalization for  
Americans under 45

## In Behavioral Health Facilities / Wards

**80%**

of inpatient suicides  
in the U.S. occur  
among psychiatric  
inpatients

**+12.3%**

Annual increase in  
beds in behavioral  
residential treatment  
centers (RTCs)

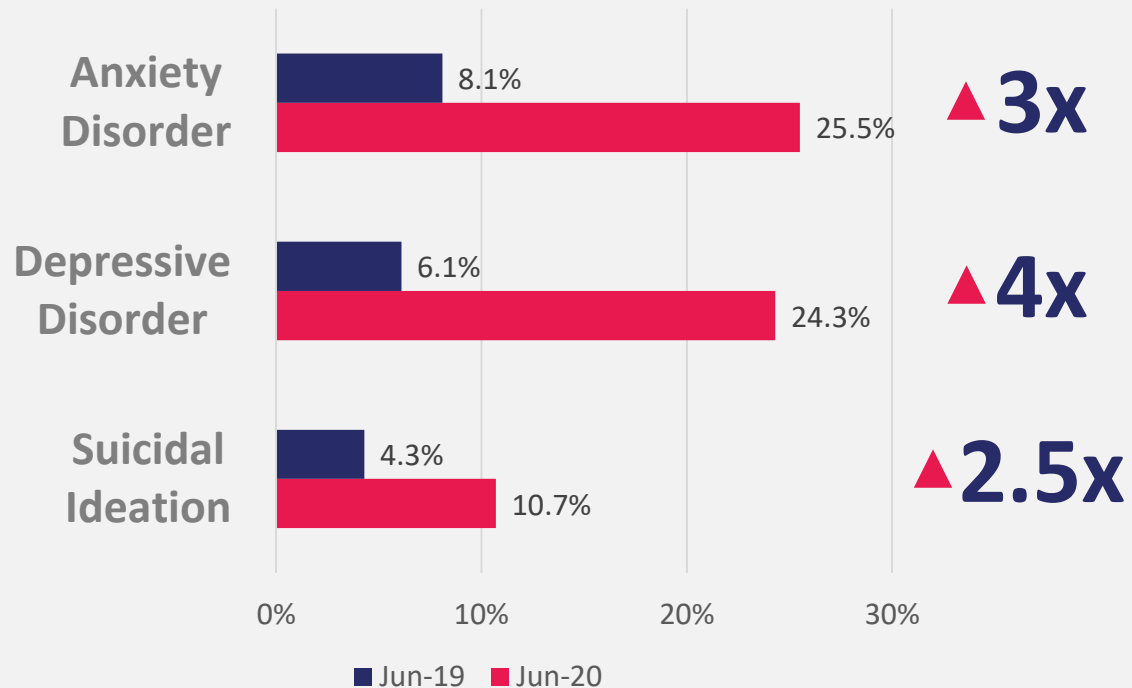
**55%**

of nurses in  
psychiatric facilities  
report experiencing  
physical assault

Sources: <https://www.aha.org/system/files/media/file/2019/05/aha-trendwatch-behavioral-health-2019.pdf>, <https://www.ncbi.nlm.nih.gov/pubmed/23433725/>,  
<https://www.nami.org/learn-more/mental-health-by-the-numbers>, [https://www.jointcommissionjournal.com/article/S1553-7250\(18\)30253-8/fulltext](https://www.jointcommissionjournal.com/article/S1553-7250(18)30253-8/fulltext)

# The COVID-19 Effect

## Increased Prevalence of Mental Health Conditions



## Increased Risk of Infection

*“In contrast to general healthcare settings, psychiatric facilities may experience **unique challenges in prevention and infection control**”*

- SAMHSA COVID-19 Interim Considerations for State Psychiatric Hospitals, May 2020

### Recommended Guidelines:

- Quarantine on intake
- Limit movement of COVID patients
- Segregate areas or floors
- Curtail visiting hours
- Ensure frequent cleaning & disinfecting

Sources: <https://www.cdc.gov/mmwr/volumes/69/wr/pdfs/mm6932a1-H.pdf>, <https://www.samhsa.gov/sites/default/files/covid19-interim-considerations-for-state-psychiatric-hospitals.pdf>

# Behavioral Health Facilities

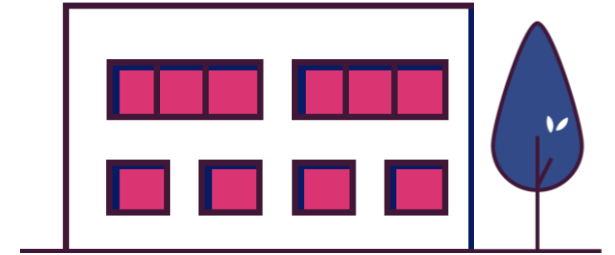
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**Dedicated  
Psychiatric Hospital**



**Behavioral Wing in a  
General Hospital**



**Residential  
Treatment Center**

# Top 3 Goals in Behavioral Health Lighting

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- 1 Prevent suicide and self-harm**
- 2 Prevent harm to others**
- 3 Create an environment for healing**



# Behavioral Health Design Guide

## LIGHTING REQUIREMENTS



*The use of 2'x4' light fixtures creates an institutional appearance in patient rooms.*

*“Preference is for using either **round** or oval, **vandal-resistant** fixtures for general illumination and recessed security downlights with **polycarbonate lenses** over the beds for reading lights.”*



# Risk Levels in Behavioral Facilities



LOWEST RISK

HIGHEST RISK

## Level I

Staff & Service  
Areas



## Level II

Counseling &  
Interview Rooms



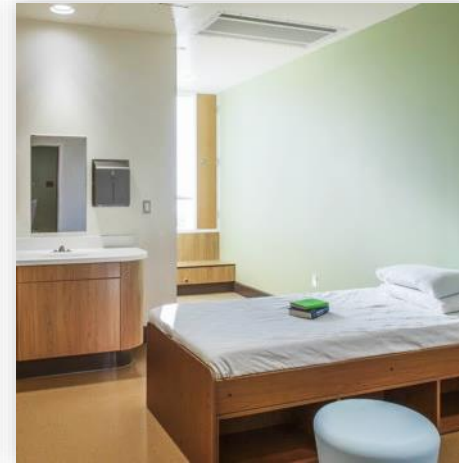
## Level III

Corridors, Lounges,  
Activity Rooms



## Level IV

Patient & Toilet  
Rooms



## Level V

Admission &  
Seclusion Rooms



# Risk Levels in Behavioral Facilities



Office of  
Mental Health

Staff & Service  
Areas



## LOW RISK

No patient use or  
constantly supervised

Counseling &  
Interview Rooms



## MEDIUM RISK

Patient access is controlled, or use is supervised with no  
solitary and/or unsupervised use

Corridors, Lounges,  
Activity Rooms

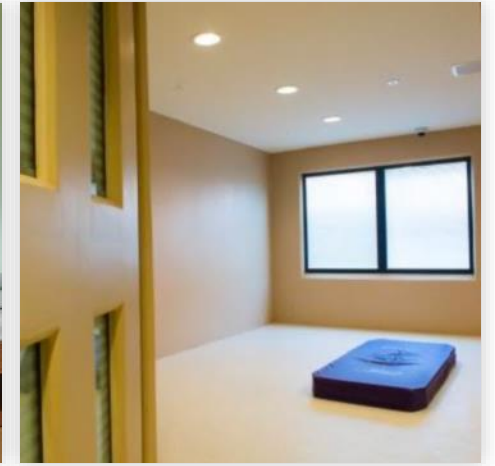


Patient & Toilet  
Rooms



## HIGH RISK

Areas with solitary and/or unsupervised  
patient use



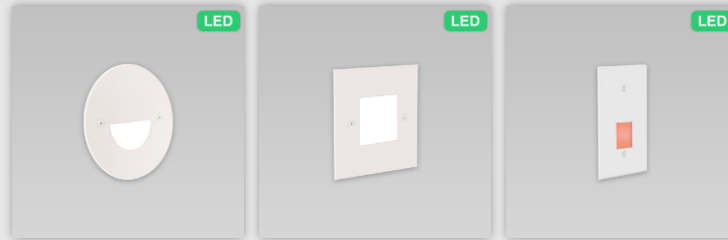
# Behavioral Fixture Families

## Recessed Rounds



Ambient · Shower · Exam · Reading

## Wayfinding



NightLight · StepLight · ChartLight

## Observation

NEW



Orange/Yellow · Orange/Red

## Motorized Exam

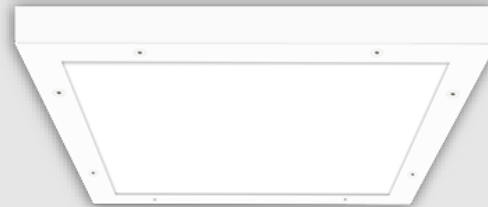
NEW



INFRALED PRO 35V

## White Panels

NEW



Surface · Recessed

## Scenic Panels

NEW



Surface · Recessed

# Recessed Luminaires for Behavioral Health

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6"



1000L - 2500L

Downlight · Wall Wash

7"



1000L - 2500L

Downlight · Shower

8"



2500L - 6500L

Downlight · Adjustable



# Virginia Treatment Center for Children (VTCC)

**Downlights:** LRV-07469

**Quantity:** 243 units

**CCT:** 3500K

**Output:** 1500L



## *In the End-User's Words:*

"I want to thank and acknowledge the inpatient team and CannonDesign project team who has consistently placed **quality** and **safety** first."

- Alexandria Lewis, Exec. Dir., VTCC





# Available Color Temperatures

6"



2700 K

3000 K

3500 K

4100 K

5000 K

Tunable White: 2700-6500K

Radiance™: 1650-8000K

7"



2700 K

3000 K

3500 K

4100 K

5000 K

8"



2700 K

3000 K

3500 K

4100 K

5000 K

# Additional Listings & Options

6"



BioGard Antimicrobial Finish



IP66 Ingress Protection



ISO 5 / Class 100 Cleanroom



Tunable White Options

7"



BioGard Antimicrobial Finish



IP65 Ingress Protection



ISO 5 / Class 100 Cleanroom



Color-Specific Wavelengths

8"



BioGard Antimicrobial Finish



IP65 Ingress Protection



ISO 5 / Class 100 Cleanroom



Color-Specific Wavelengths

# St. Clare's Hospital – Behavioral Health

**Downlights:** MRV-06858

**Quantity:** 80 units

**Output:** 1500L



## *In the Specifier's Words:*

"We achieved a less institutional, less prison-like design."

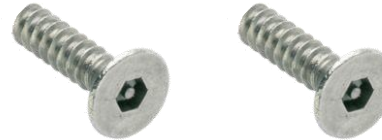
- Lori Klein, Principal & Director of Design,  
Posen Architects



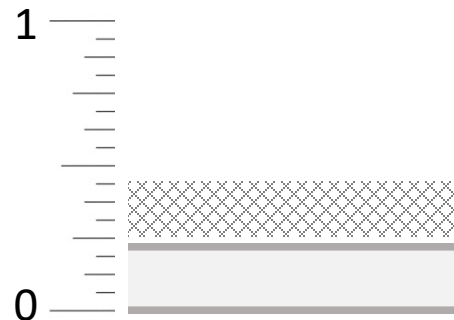
# Behavioral Health Series: Key Design Features



**SINGLE PIECE, SELF-  
FLANGED TRIM**



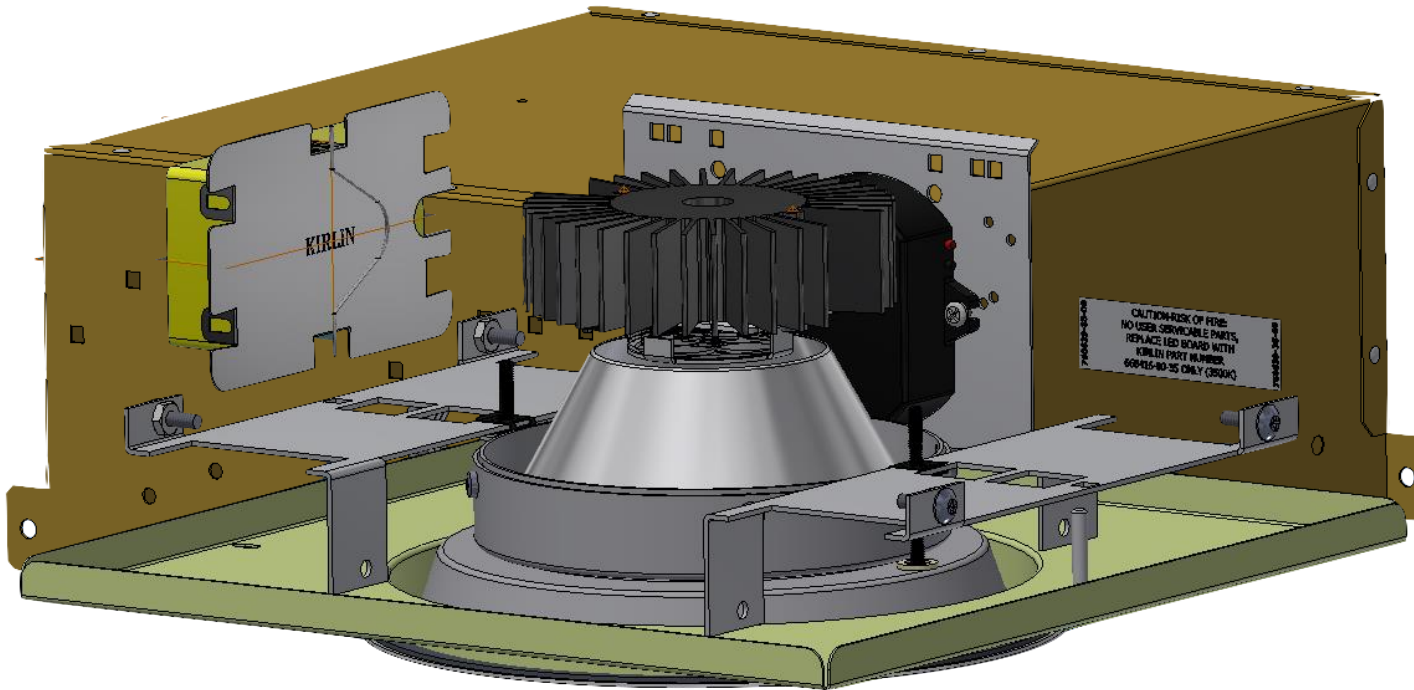
**TAMPER-RESISTANT  
HARDWARE**



**HIGH-STRENGTH  
DUAL LENS**

0.1875" high strength acrylic above  
0.22" polycarbonate below

# Behavioral Health Downlight: What's Inside



## *All-Aluminum Housing*

1. Cooler operation
2. Rust proof and corrosion resistant

## *Internal Bracketry & Construction*

1. Tight seal between trim flange and ceiling
2. No access into fixture

# St. Clare's Hospital – Behavioral Health

**Downlights:** MRV-06858

**Quantity:** 80 units

**CCT:** 3000K

**CRI:** 90+



1. Higher light levels to boost spirits and enhance safety
2. Offset spartan furnishings with architectural lighting

**NightLights:** MNS-05924-26

**Quantity:** 24 units



Office of  
Mental Health



**“Natural Light and Better Light”**



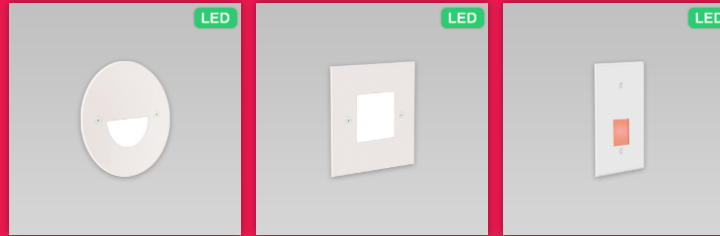
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NEW



Orange/Yellow · Orange/Red

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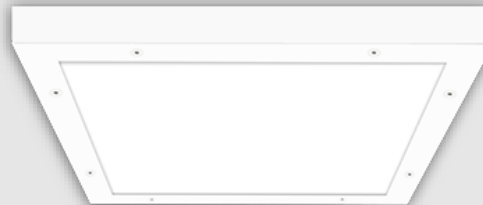
NEW



INFRALED PRO 35V

## White Panels

NEW



Surface · Recessed

## Scenic Panels

NEW



Surface · Recessed

# Wayfinding Luminaires for Behavioral Health

## NightLight



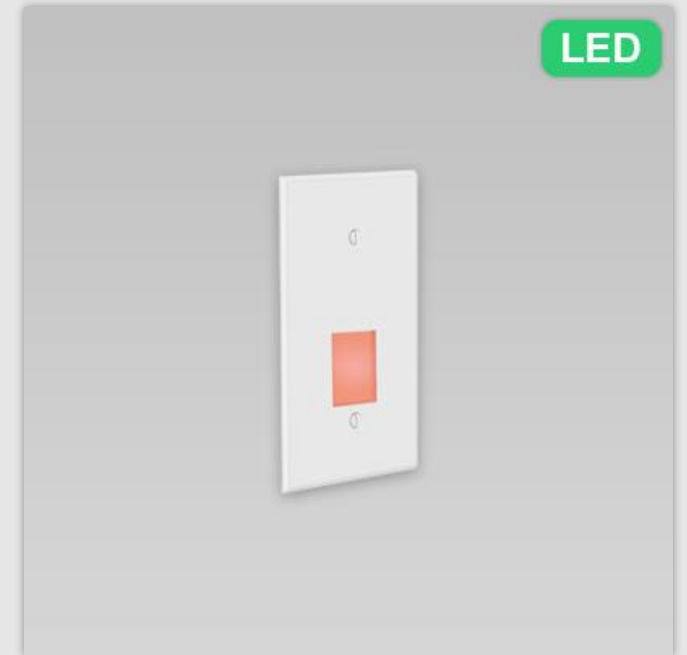
with Option -26

## StepLight



with Option -26

## ChartLight



with Option -26

# Virginia Treatment Center for Children

**Downlights:** MRV-07840

**Quantity:** 144 units

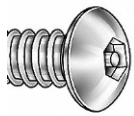


Office of  
Mental Health



**StepLights:** LNT-03096-RA-26

**Quantity:** 64 units



"A Healing Sanctuary that  
Supports Rehabilitation  
Without Stigma"



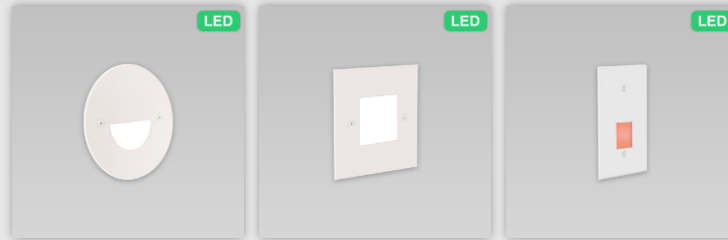
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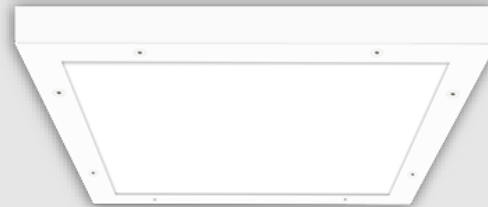
NEW



INFRALED PRO 35V

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Surface · Recessed

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Surface · Recessed

# Observation Lighting: What's Behind That Door?



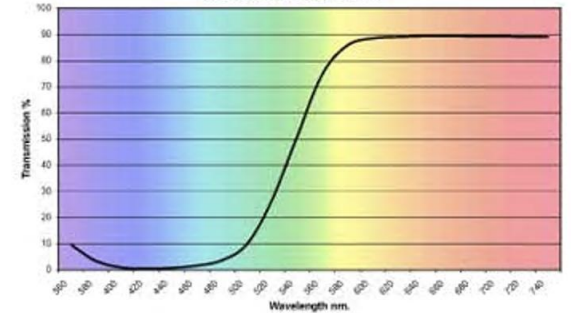


# Kirlin Night-Time Observation Light

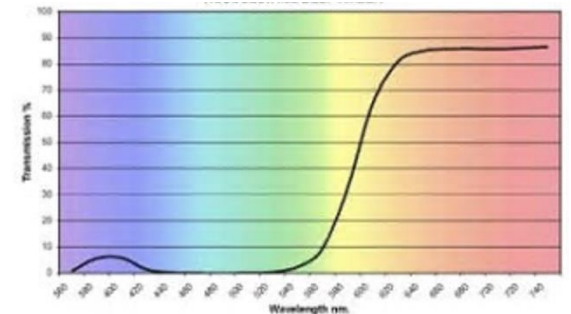
- Circadian-Supporting **Orange/Yellow** or **Orange/Red** suppress blue light
- Switched outside the room
- Permits regular assessment of patient's status without entering the room
- IK10 rated, with ligature-resistant construction approved by the NYS OMH
- IP66 and ISO 5 / Class 100 Clean Room rating optional



**MRV-06864-OYF**



**MRV-06864-ORF**





# Night-Time Observation Light: MRV-06864



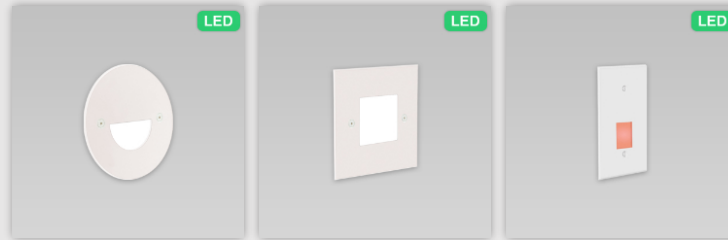
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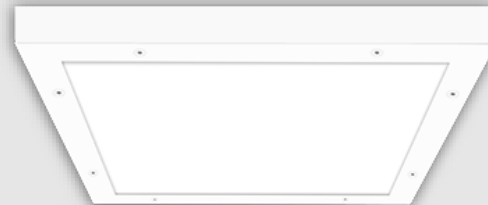
NEW



INFRALED PRO 35V

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Surface · Recessed

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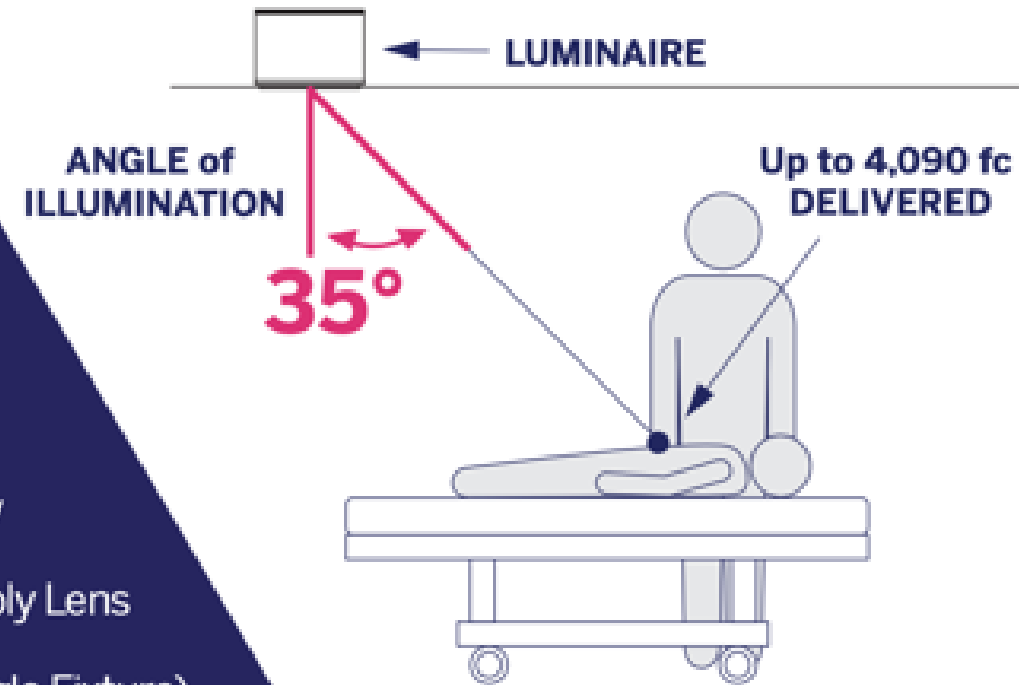
Surface · Recessed

# INFRALED PRO 35V: Motorized Exam

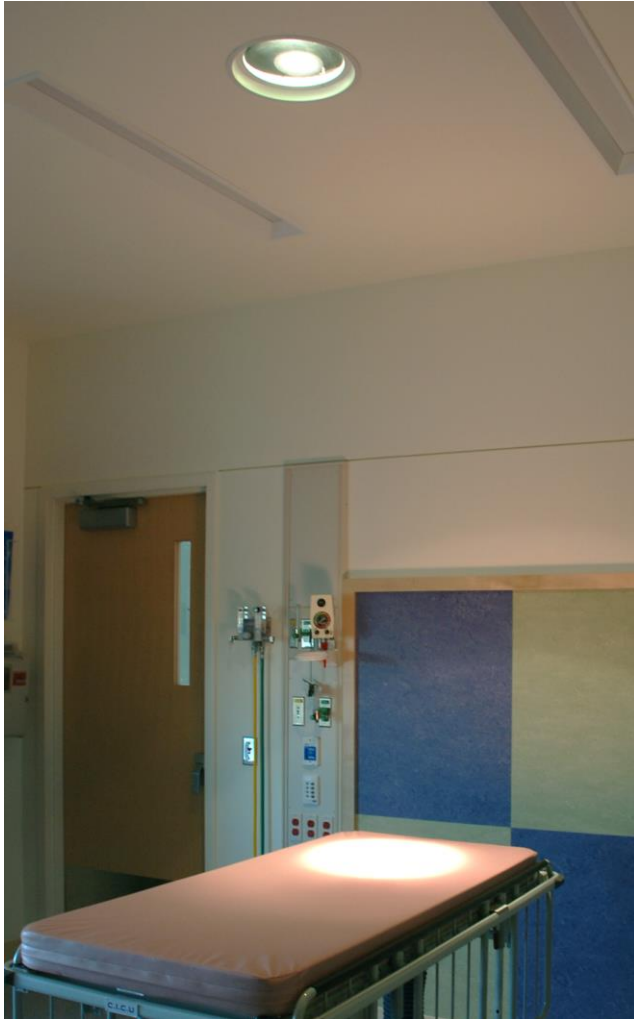
## INFRALED® PRO



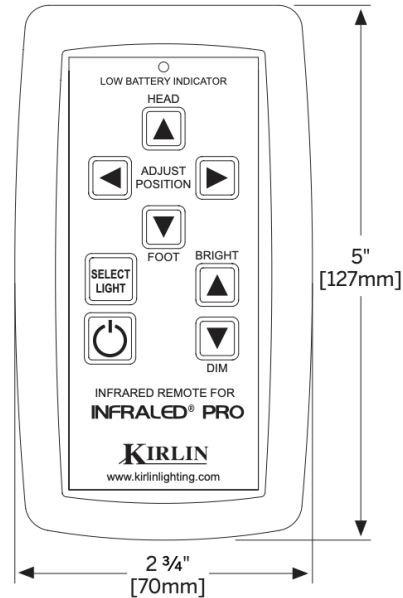
- 35° Tilt, 360° Rotation
- Fully Recessed System
- Ultimate Infection Control
- Cool LED Beams, 95+ CRI
- Wall and Remote Controlled
- Adjustable Direction & Intensity
- IK10 Impact Resistant Trim with Poly Lens
- 4,090 fc (44,024 lux) on Task (Single Fixture)



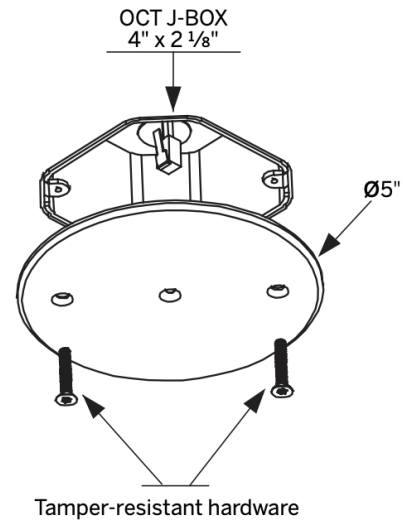
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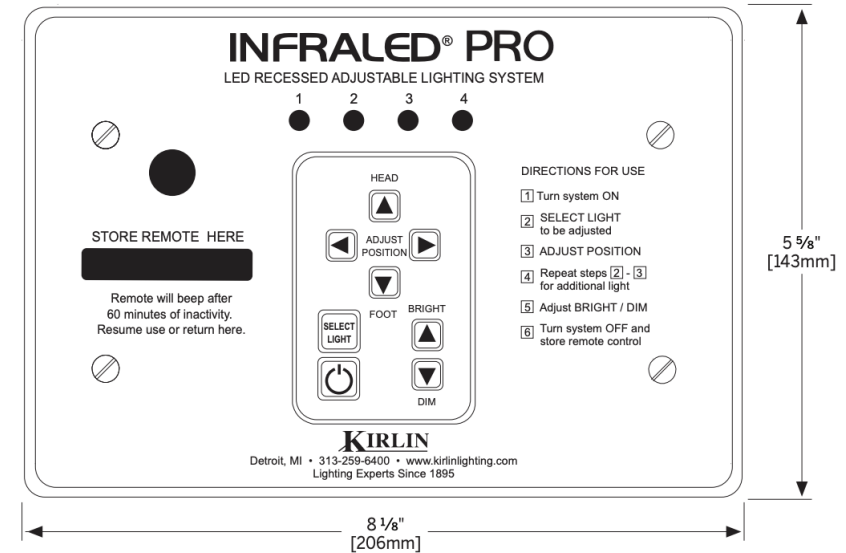
**Remote Control  
(PRO-REMOT)**



**Ceiling Mounted  
Infrared Sensor  
(PRV-SENSR)**



**Wall Control Panel  
(PRO-WALLC)**



*Controls are safely mounted outside of patient space,  
using tamper-proof remote sensor.*

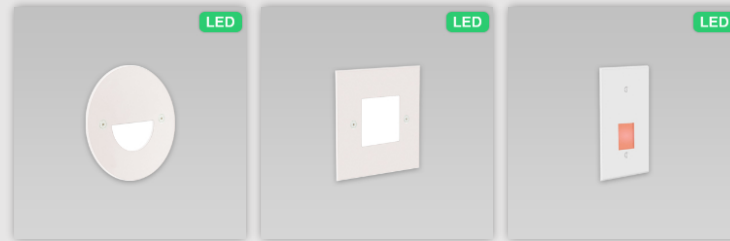
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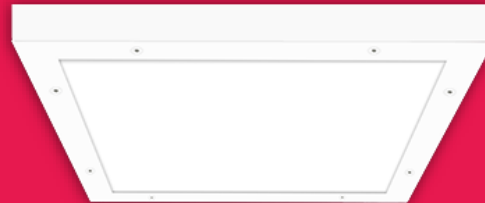
NEW



INFRALED PRO 35V

## White Panels

NEW



Surface · Recessed

## Scenic Panels

NEW

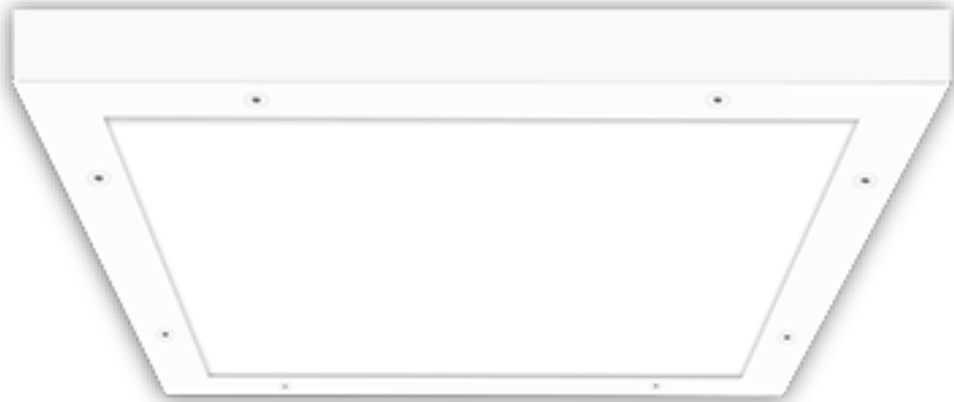


Surface · Recessed

# White 2'x2' Panels for Behavioral Health




MRV-22865



MSV-22866

## Features

- Super shallow fixture depth
  - Surface: 2<sup>5</sup>/<sub>8</sub>"
  - Recessed: 2<sup>3</sup>/<sub>8</sub>"
- 1500L or 2500L output
- 0-10V or Triac dimming to 1% or 10%
- IK10 impact resistant with 0.22" poly environment-side
- Tamper-resistant hardware
- Infection Control:  Antimicrobial Finish
- CCT: 3500 K 4100 K
- 90+ CRI



# St. Clare's Hospital – Behavioral Health

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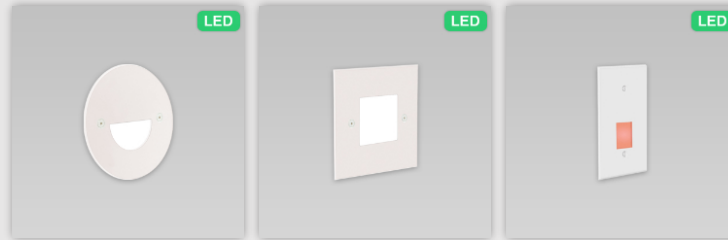
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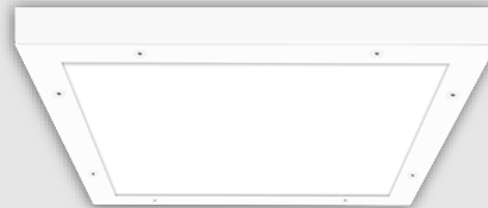
NEW



INFRALED PRO 35V

## White Panels

NEW



Surface · Recessed

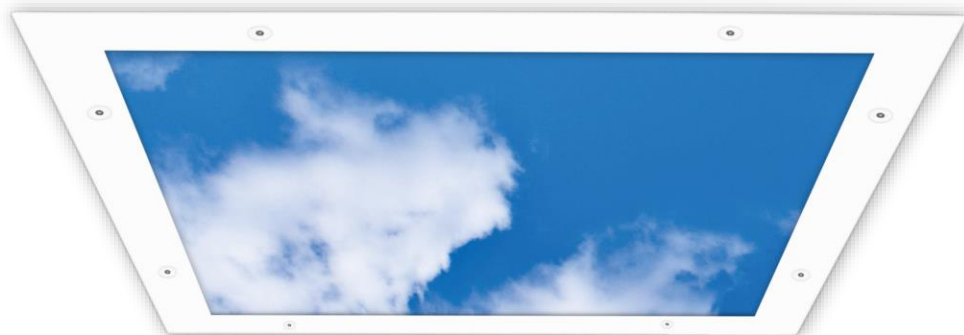
## Scenic Panels

NEW



Surface · Recessed

# Scenic 2'x2' Panels for Behavioral Health



**Recessed: MRV-22865-A01**



**Surface: MSV-22866-A01**

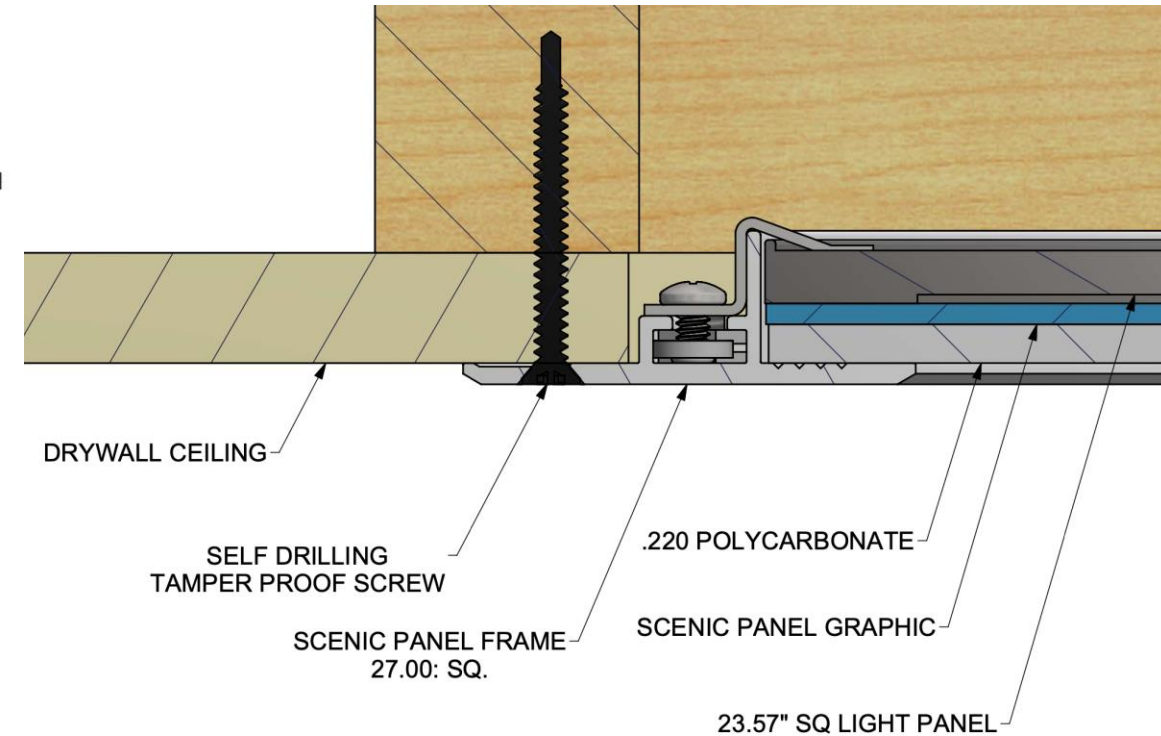
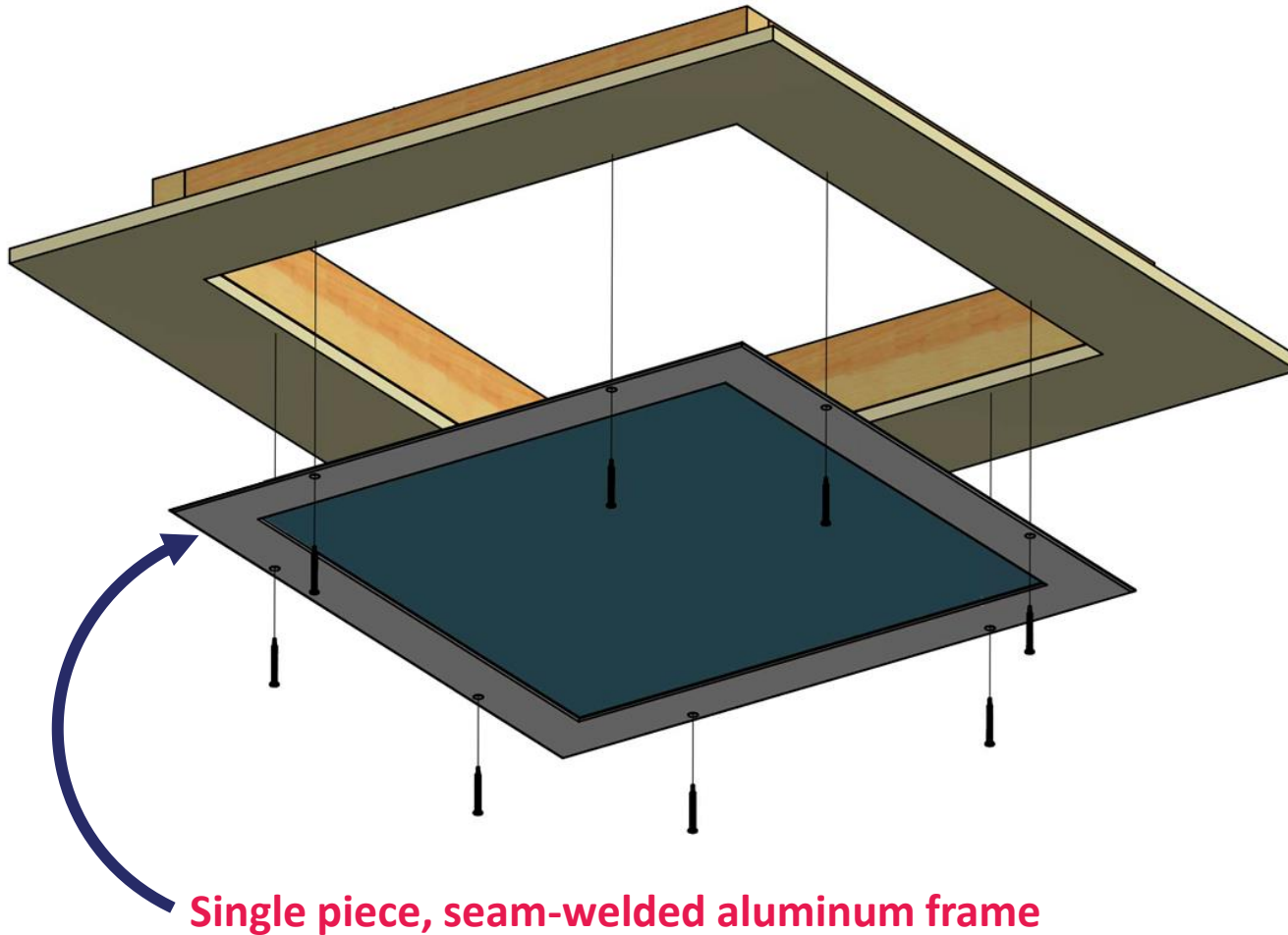
## *Soothing & Distracting “Skylight” Effect*

Select from 14 standard images or submit your own





# Vandal & Ligature-Resistant Design



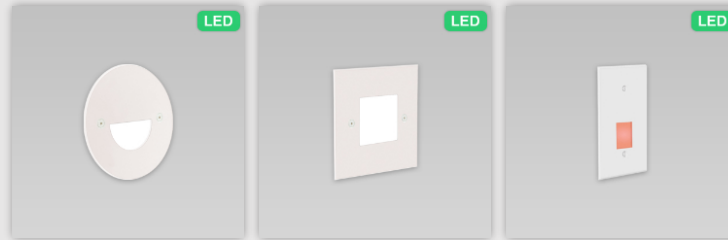
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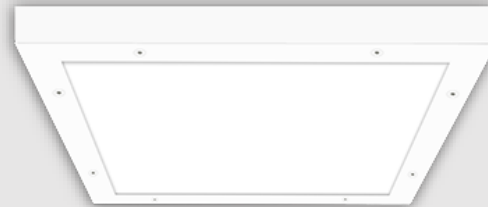
NEW



INFRALED PRO 35V

## White Panels

NEW



Surface · Recessed

## Scenic Panels

NEW



Surface · Recessed



# Encouraging Safety, Health, & Wellness

Kirlin's behavioral health lighting is  
**safe and comforting**



designed for inpatients, not inmates

A photograph of a modern building's interior, featuring multiple levels with glass railings and large windows. The image is heavily tinted with a blue color, creating a cool, futuristic atmosphere. The architecture is contemporary, with clean lines and a mix of materials like glass and metal. The lighting is soft and even, highlighting the architectural details.

# QUESTIONS?