



**selux**

# M - S E R I E S L E D

Application Guide





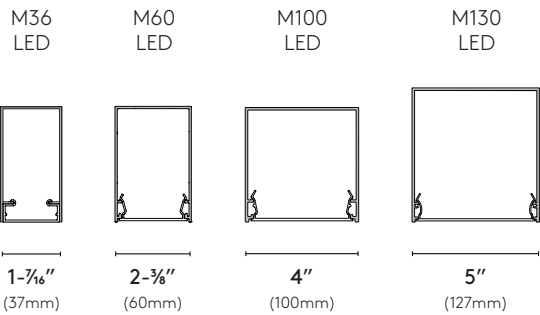


## **M-Series LED (M-LED) Family**

The M-Series LED (M-LED) family combines flexibility, inspiration, and minimalist design, providing individual solutions to unique challenges. Our modular system expands creative freedom so the perfect innovative lighting design can be realized quickly and easily. With stunning solutions that are both intelligent and efficient, the range of possibilities is nearly limitless. M-LED is perfect for a designer looking for a classic line of light that is customizable to their project needs. Use M-LED in offices, hospitality, education facilities, high-end residential, or general task lighting and illumination.

# Product Specifications

Light Engine:	Mid-power LEDs · 80+ CRI and 90+ CRI
Output:	Up to 1,618lm/ft · up to 147lm/W
CCT:	2700K · 3000K · 3500K · 4000K · 3 Step-Binning · Tunable White (2700K - 6500K · 90+ CRI)
Shielding:	LED Optimized White Lens · Clear Lens with Microprism · Symmetric · 20° Wall Washer · 5° Wall Grazer · Direct Batwing · Indirect Wide Batwing (Drop Lens, Light Up Lens, M36 MRC Wall Washer, M36 Combo)
Options:	Multiple dimming options · Emergency options · Lit Corners · Integrated Piix™ MRC (M100) · Two rows of LEDs (M130) · Separate Switching
Project-Specific:	Blank Covers · Custom Configurations · RGBW · BIOS SkyBlue®



\*M-LED available in 1/4 in. increments.

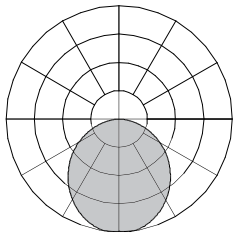


## Proprietary LED optical system

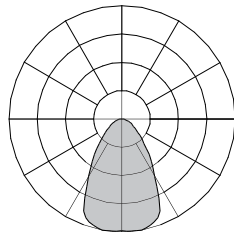
allows for impressionable lighting design

Our proprietary LED optical system - Light Modulation Optics (LMO) - have been integrated into the M36 Combo allowing for a more flexible lighting design throughout a space. The Combo luminaire offers a variety of shielding options including Lambertian optics, directional optics, and louvers.

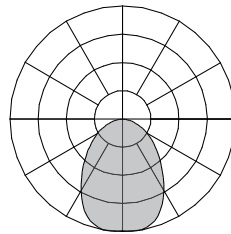
### M36 Combo Direct Shielding Options



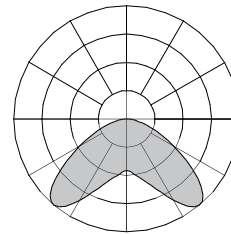
**LW - LED Optimized White Lens**  
(up to 117lm/W)  
Application: general illumination



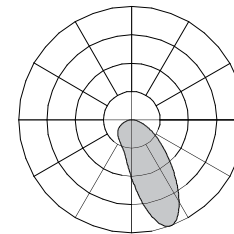
**MI - Clear Lens with Microprism**  
(up to 120lm/W)  
Application: low glare, focused task illumination



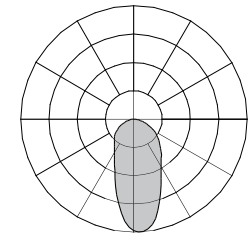
**NB - LMO Symmetric**  
(up to 142lm/W)  
Application: general task illumination



**BW - LMO Batwing**  
(up to 129lm/W)  
Application: general illumination, wide spacing

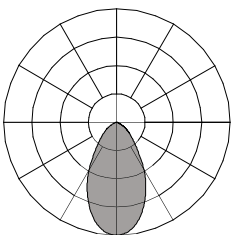


**A2 - LMO Asymmetric 20° Wall Washer**  
(up to 147lm/W)  
Application: wall washing

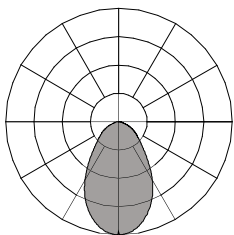


**A5 - LMO Asymmetric 5° Wall Grazer**  
(up to 147lm/W)  
Application: wall grazing

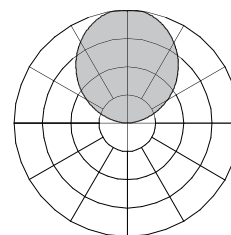
### M36 Combo Indirect Shielding Options



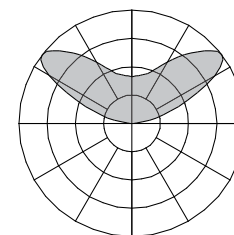
**BM - Black Louver**  
(up to 83lm/W)  
Application: low glare general illumination



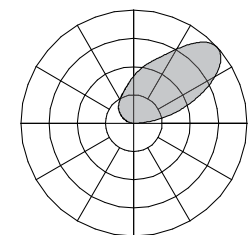
**WM - White Louver**  
(up to 104lm/W)  
Application: low glare general illumination



**LW - LED Optimized White Lens**  
(up to 117lm/W)  
Application: general illumination



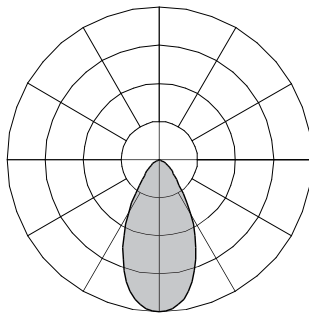
**WB - LMO Wide Batwing**  
(up to 139lm/W)  
Application: indirect wide spacing



**IA - Indirect Asymmetric**  
(up to 112lm/W)  
Application: ceiling wash

## Beautiful, high performing luminaires that address glare and uniformity

In M36, louvers and the MRC Wall Washer optics hide the light and reduce visual glare. Both are beautiful, high-performing optical systems that address glare at the source.

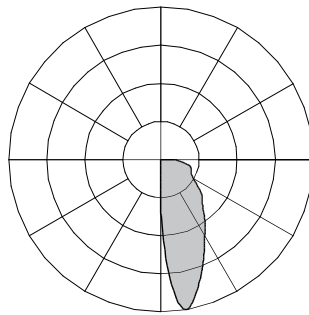


### **Vx - Louvers**

Specular, Matte Silver, Matte Black,  
and Matte White finishes available  
(up to 96lm/W)  
UGR: 13 to 17

Application: low glare, focused task  
illumination

\*Values calculated from a 4' luminaire  
at 3500K and 80+ CRI unless noted  
otherwise. For complete values, see  
photometry files online.



### **WW - M36 MRC Wall Washer**

(up to 80lm/W)  
(90+ CRI only)

Application: wall washing

\*M36 MRC WW values calculated from a  
4' luminaire at 3500K and 90+ CRI. See  
photometry files online.



\*M36 MRC Wall Washer shown

## M36 Combo

### Expanding the Lighting Toolbox

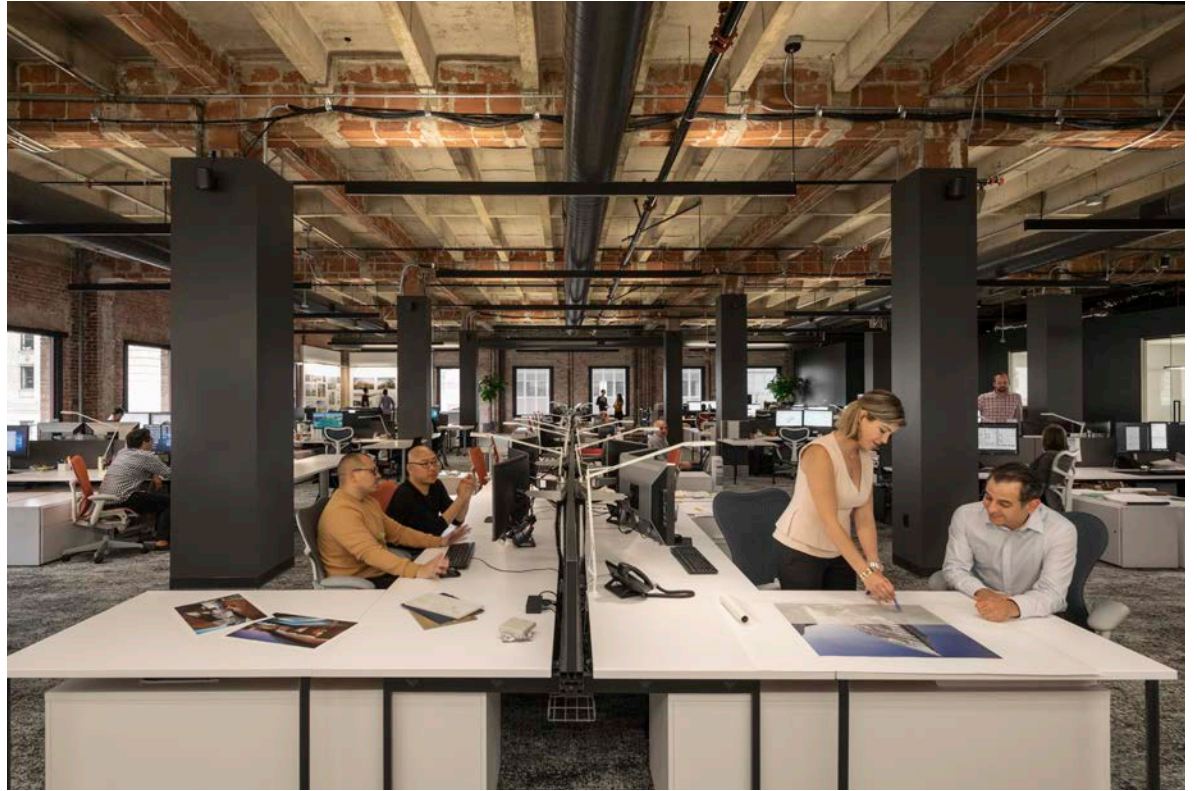
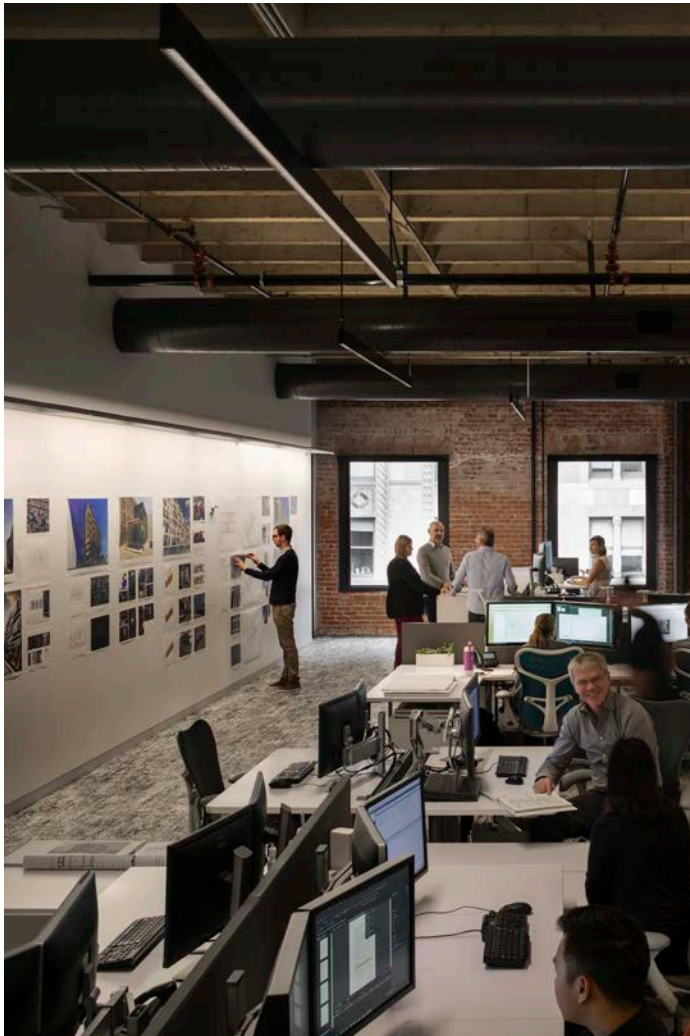
Selux M36 Combo allows you to combine and arrange lighting to suit your spatial demands. M36 Combo layers lighting by allowing choices of slim, ambient linear lighting, louvers, and/or mini adjustable spotlights to create visual interest. This luminaire utilizes the same optics as our popular M36 family, and incorporating the LED mini spotlights, opens a wide range of possibilities. For indirect illumination, a Lambertian diffuse lens, widespread batwing optic, and asymmetric ceiling wash optic are available. Choose M36 Combo when you're in need of modularity, precision optics, and efficiency. Use for interior applications such as commercial and retail spaces, galleries, museums, schools, offices, and hospitality.







The highly efficient louver  
provides **ambient lighting**  
and **additional glare control**

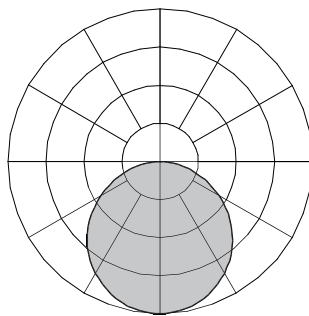


## Versatile optics

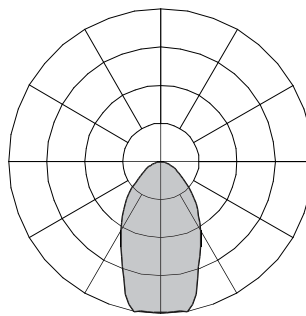
integrated for more uniform appearance

Our successful and versatile M36 LED optics have been integrated into the M60 LED and M100 LED products as well. All of the proprietary Light Modulation Optics (LMO) are tucked behind a Satine Lens for a more uniform appearance and illumination to the top of the wall without protruding from the ceiling. M60 LED and M100 LED are also available with the proprietary indirect Wide Batwing optic.

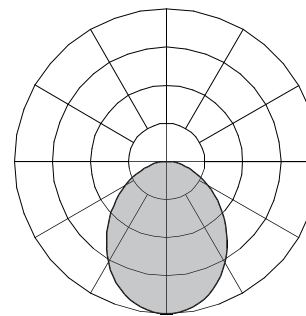
### M60 and M100 Shielding Options



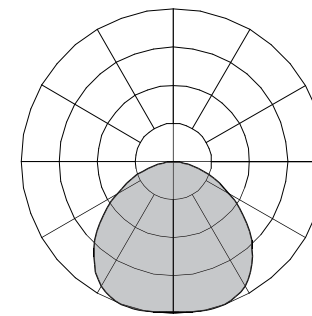
**LW - LED Optimized White Lens**  
(up to 102lm/W)  
Application: general illumination



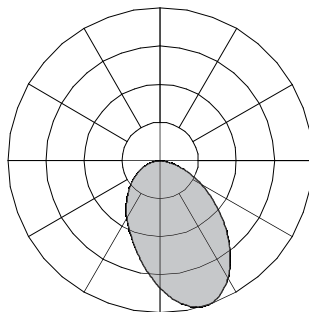
**MI - Clear Lens with Microprism**  
(up to 119lm/W)  
Application: low glare, focused task illumination



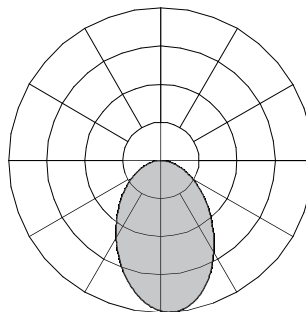
**NB - LMO Symmetric**  
(up to 110lm/W)  
Application: general task illumination



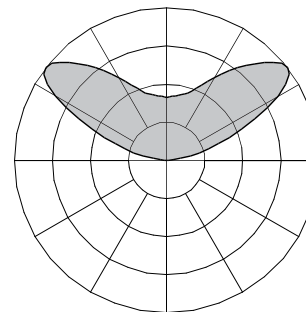
**BW - LMO Batwing**  
(up to 102lm/W)  
Application: general illumination, wide spacing



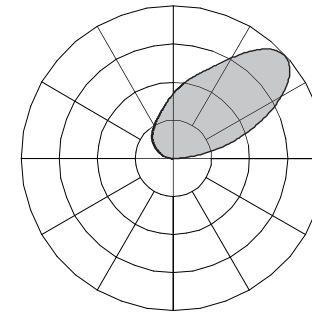
**A2 - LMO Asymmetric 20° Wall Washer**  
(up to 111lm/W)  
Application: wall washing



**A5 - LMO Asymmetric 5° Wall Grazer**  
(up to 112lm/W)  
Application: wall grazing



**WB - LMO Wide Batwing**  
(up to 139lm/W)  
Application: indirect wide spacing

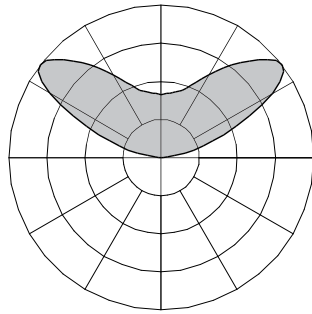


**IA - Indirect Asymmetric**  
(up to 89lm/W)  
Application: ceiling wash

## Designed to accentuate your ceiling with uniform brightness

### High Performing Indirect Wide Batwing

The indirect Wide Batwing has been specifically designed to enhance the architectural environment by providing a beautiful and uniform ceiling wash. It's available in the M36, M60, and M100 form factors.



**WB - LMO Wide Batwing**  
(up to 139lm/W)  
Application: indirect wide  
spacing

#### Wide batwing optic

The low angle Wide Batwing Optic spreads light across the ceiling, creating a superior ceiling uniformity, and is extremely efficient at up to 139lm/W.

#### Achieve maximum uniformity on the ceiling

Reduce contrast on the ceiling with the Wide Batwing optic, even when there is limited space between the ceiling and the luminaire. With a wider spacing, fewer luminaires are needed to light a space.

#### Improved visual comfort

Create a sense of spaciousness, eliminate veiling reflections, reduce eye fatigue, and support facial recognition through indirect lighting.

#### Minimize glare

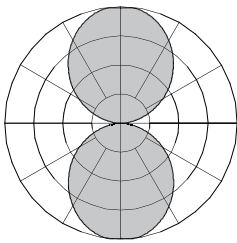
Provide useful illumination within a space without the added direct luminous glare.



## Analysis of the Indirect Wide Batwing

The photometric analysis compares the LW - LED Optimized White Lens to the WB - LMO Wide Batwing. Both scenarios produce similar average illuminance values and uniformity ratios (Avg/Min) on the workplane, but the Wide Batwing achieves an excellent ceiling uniformity (Max/Min).

### L36DI-1C20-1C25-935-LW-LW



Direct Lumen Output: 429lm/ft  
Indirect Lumen Output: 535lm/ft  
CRI: 90+ (High Color Rendering)

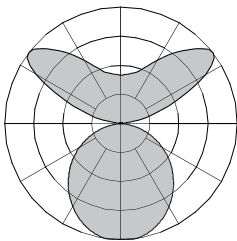
#### The Workplane:

Avg. Illuminance: 35fc  
Uniformity Ratio (Avg/Min): 1.69

#### The Ceiling:

Avg. Illuminance: 32fc  
Uniformity Ratio (Max/Min): 9.55

### L36DI-1C20-1C20-935-LW-WB



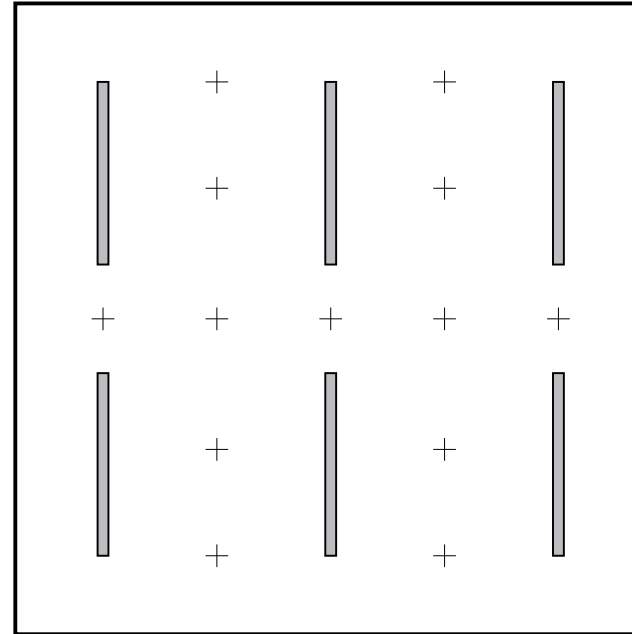
Direct Lumen Output: 429lm/ft  
Indirect Lumen Output: 509lm/ft  
CRI: 90+ (High Color Rendering)

#### The Workplane:

Avg. Illuminance: 34fc  
Uniformity Ratio (Avg/Min): 1.68

#### The Ceiling:

Avg. Illuminance: 30fc  
Uniformity Ratio (Max/Min): 4.68



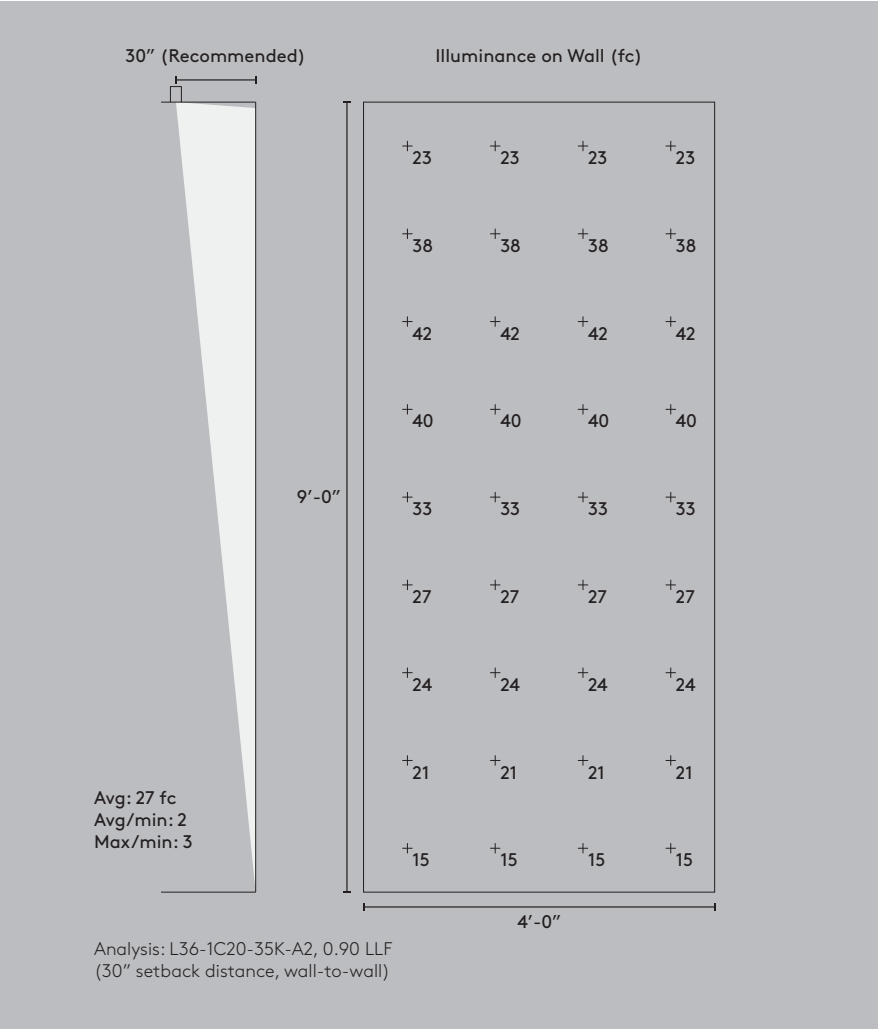
### Room Characteristics:

Room Size: 36' x 36' x 12'  
12' Luminaire Lengths  
Luminaire Suspension Distance: 3' (36")  
Luminaire Spacing: 14' x 18'

Reflectance Values: 80/50/20  
LLF: 0.90

# Wall Washing

Highlight a wall to create interest or enhance the smoothness and eliminate shadows with wall washing optics.

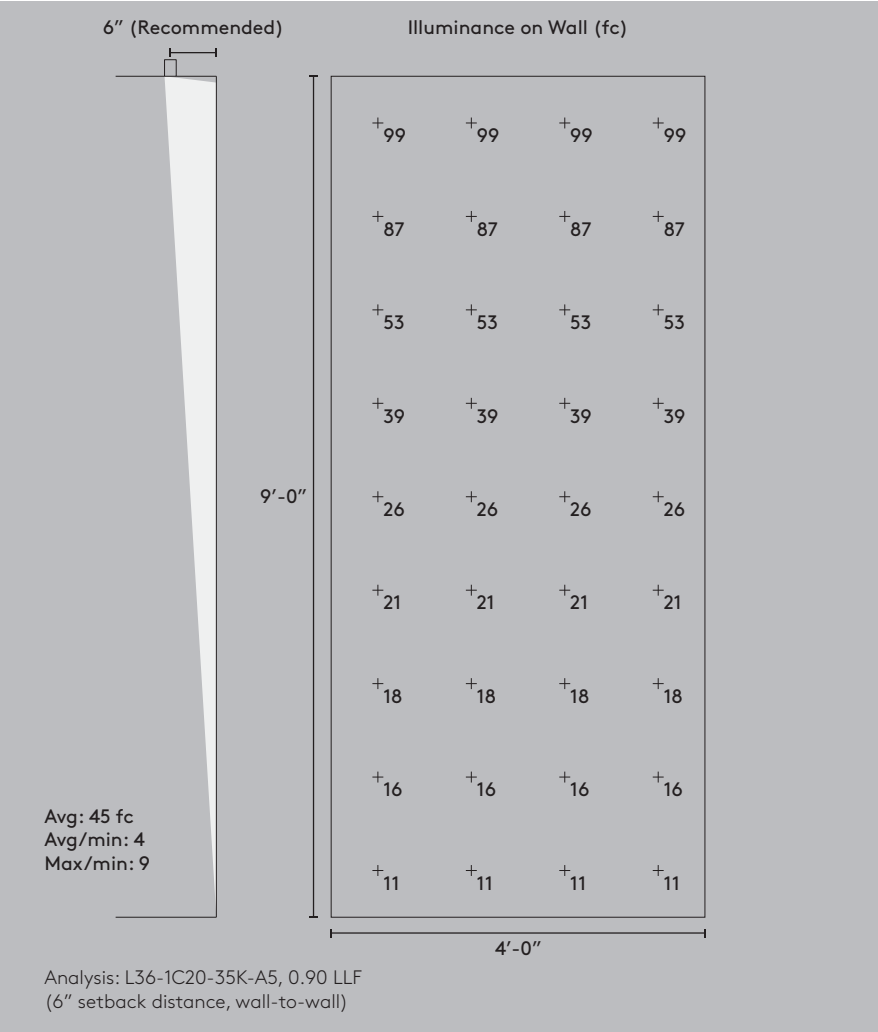


The A2 - LMO Asymmetric 20° Wall Washer provides high quality optical performance, translating into an even distribution of light on the wall.

Oliver's Yard, London, United Kingdom Photo courtesy of James Newton

# Wall Grazing

Accentuate textures or features on a wall and create dramatic lighting effects with wall grazing optics.



The A5 - LMO Asymmetric 5° Wall Grazer is designed to create a tight, focused beam, evenly illuminating textures and highlighting accent walls to promote visual interest.

Oliver's Yard, London, United Kingdom Photo courtesy of James Newton

**General Illumination** creates high-performance lighting  
with exceptional quality



HGA Washington DC Office; Photography: Judy Davis









Continental Divide, Grants, New Mexico; Photographer: Mattocreative, Inc.





## Configurations allow for artistic freedom

M-LED expands creative freedom so innovative lighting design can be realized to the fullest extent. Create a unique statement piece, increase visual interest, or follow unique

architectural lines by using M-LED custom configurations. Consult the factory for your project-specific application needs.



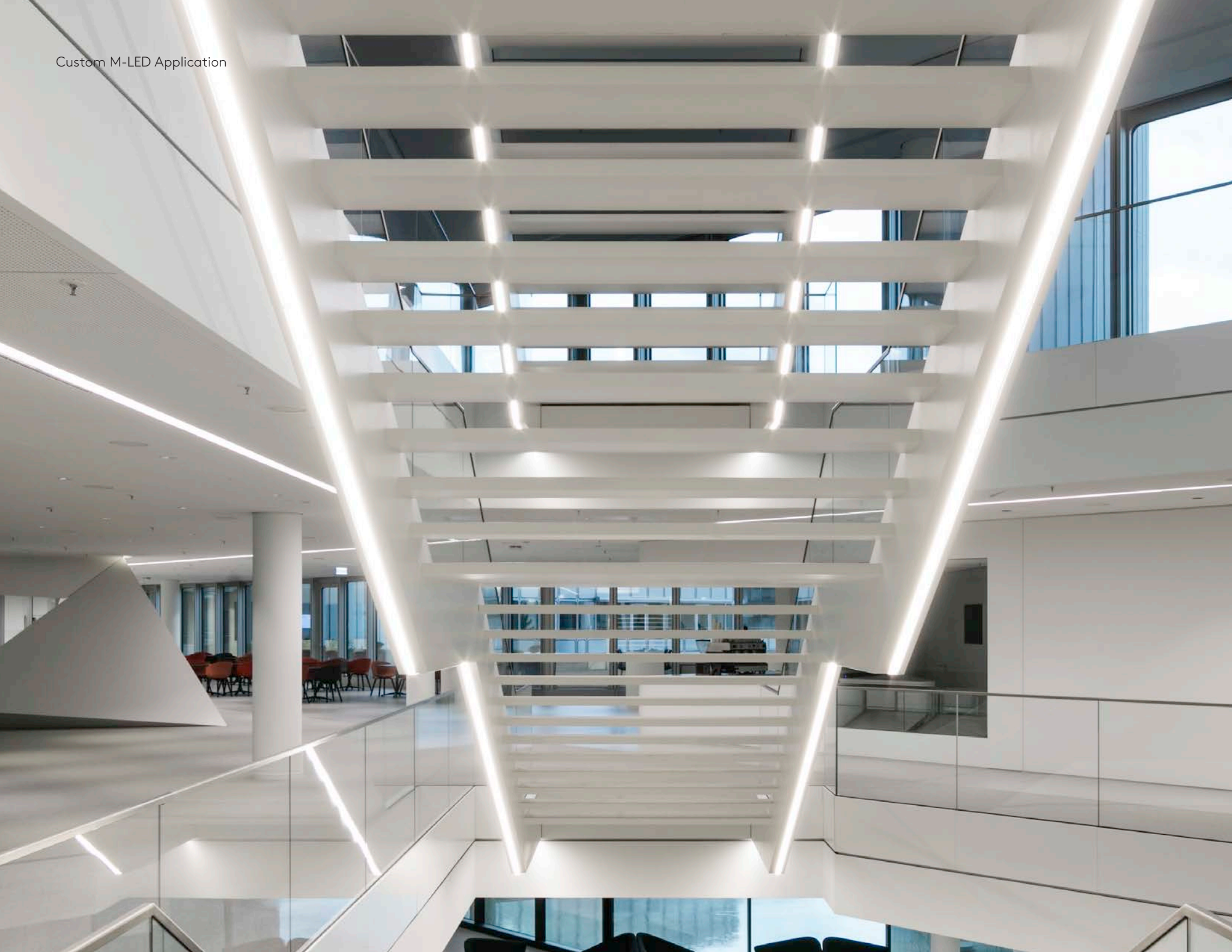
BMO Bank of Montreal - First Canadian Place; Photographer: Steve Tsai Photography



950 17th Street, Denver, CO; Photographer: Koerbel Photography



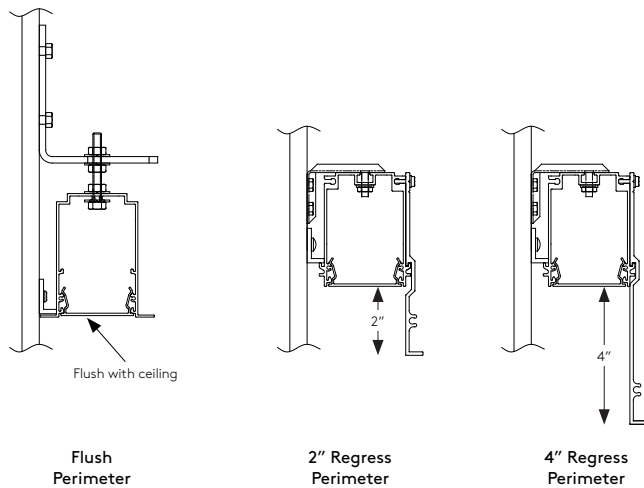
Custom M-LED Application







**M-LED Recessed Perimeter** lights sit above the ceiling plane and provide an excellent light source around the perimeter of the room



#### **Recessed Perimeter**

Create a continuously illuminated slot - including fully luminous corners - with recessed perimeter mounting. Choose from flush, 2" regress, or 4" regress depths in the M36, M60, or M100 series luminaires. Available with spackle flange or flanged mounting.

#### **Adjustable Geartray and Field-Cuttable Housing**

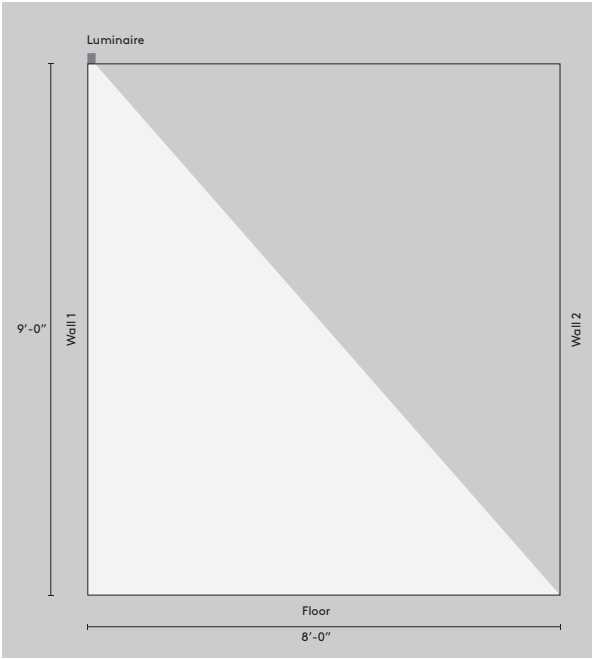
Adjust to walls of any length with the adjustable geartray and field-cuttable housing. Standard with +/- 6" field adjustability, you can worry less about the designed space being built precisely as planned, and can change your light fixture as needed during installation.

Choose from a variety of the standard M-LED optics to create the desired illuminating effect on the vertical surface.



# Make your room appear more spacious

without an obtrusive fixture



HVB Tower Munich, Germany; Photographer: Henn Architekten/Hans-GeorgeEsch

### Corridor Fill with Perimeter Mounting

Use the A2 - LMO Asymmetric 20° Wall Washer optic aimed away from the wall to provide corridor fill light with perimeter mounting. This allows for exceptional lighting in the corridor while reducing installation costs and energy usage compared to standard cove applications.

### Corridor Characteristics:

Corridor Size: 8' x 9'  
Reflectance Values: 80/50/20  
LLF: 0.90

Luminaire	Output (lm/ft)	Avg. Illuminance on Floor (fc)	Uniformity Ratio on Floor (Max/Min)	Avg. Illuminance on Wall 1 (fc)	Uniformity Ratio on Wall 1 (Max/Min)	Avg. Illuminance on Wall 2 (fc)	Uniformity Ratio on Wall 2 (Max/Min)
L36-1C20-835-A2	642lm/ft	46fc	2.31	29fc	12.83	21fc	2.62
L60-1C25-835-A2	642lm/ft	41fc	2.34	35fc	15.31	21fc	2.54
L10-1C25-835-A2	600lm/ft	39fc	2.27	34fc	16.52	20fc	2.45





## Taking on new form M-LED is available in standard geometric shapes and configurations

M-LED Shapes standardize on the most popular requests  
- Triangle, Square, Rectangle, Hexagon, Y, and X. Shapes  
are available with Recessed, Surface, or Pendant Mounting  
in M36, M60, or M100. All shapes come standard with 1', 2',  
3', and 4' leg lengths. For other shapes, sizes, or  
configurations please consult the factory.







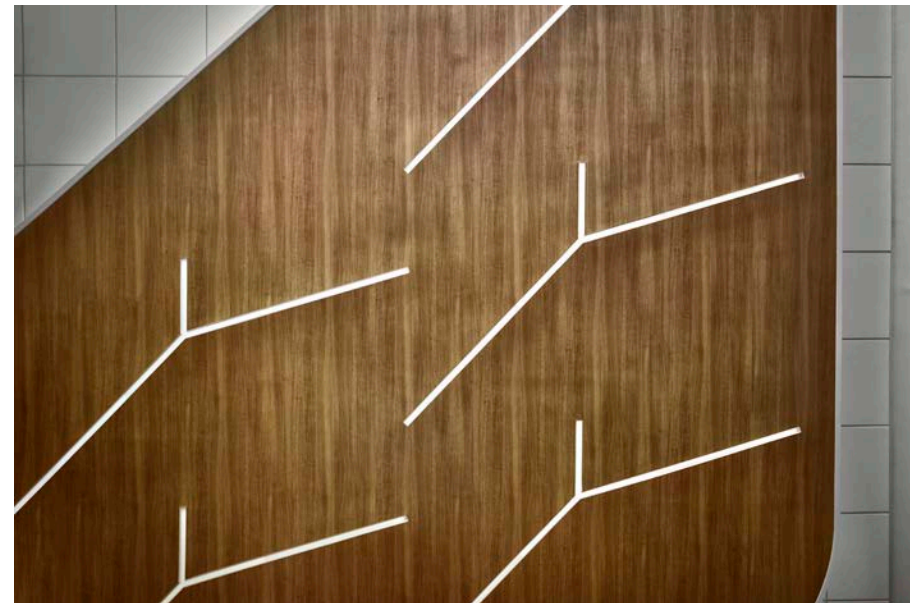
Roger Williams SECCM; Photographer:  
Robert Brewster Photography





 **CENTER COURT**  
PICKLEBALL CLUB

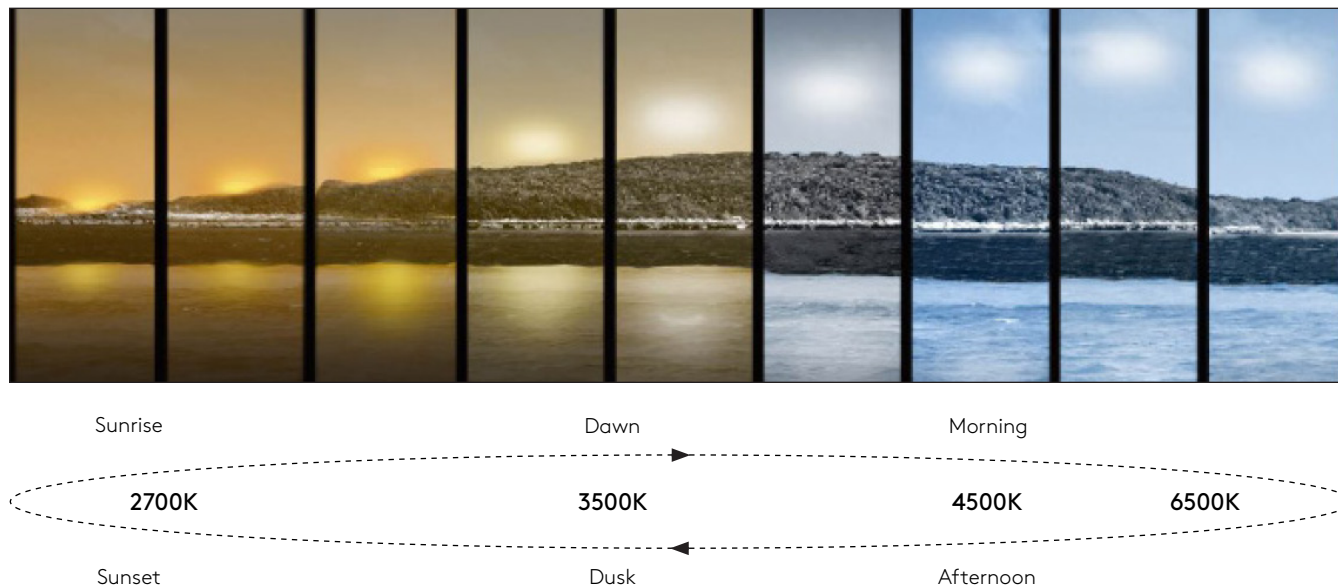




## My White provides adjustability in the amount and color of your light creating a comfortable environment

Humans have an internal clock that affects everything from sleep patterns to productivity to health. This clock is called the circadian rhythm. As humans evolved in the days before electric lighting, they had natural exposure to various levels (both color temperature and intensity) from the sun. By adjusting electric lighting to mimic the natural hue and intensity of the sun, it can help restore the body to a natural state. Various studies have shown that this can help with alertness, behavioral issues, and

productivity. The Selux proprietary My White technology allows you to adjust both the amount and color of your light, creating a comfortable environment for healthcare, corporate offices, educational facilities, hospitality, or any other installation where varying color temperature could benefit the occupants. Set up the My White luminaires to a whole building solution, and you could create an automatic adjustment to the light to mimic daylight.



**selux** + **biOS** For M-LED with Bios SkyBlue®, consult factory.



## Illuminating M-LED Intelligently with Casambi

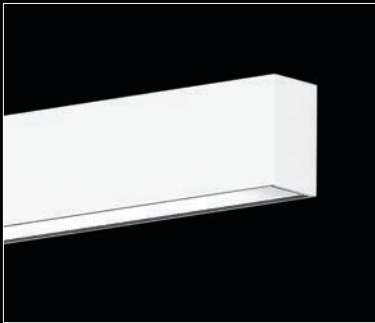
CASAMBI

Selux is partnered with Casambi! With Casambi, lighting designers have the ability to wirelessly connect luminaires together with Bluetooth Low Energy technology - enabling the end-user to create customized lighting systems which can be remotely controlled from a single mobile device. With Casambi, Selux now offers an advanced lighting control solution based on Bluetooth Low Energy (BLE). This

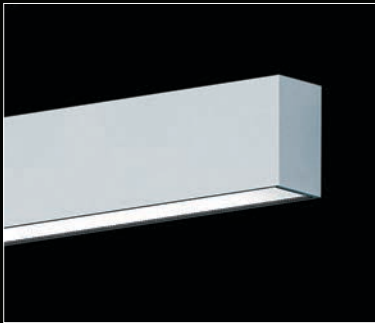
technology is available in all modern smartphones, tablets, and smartwatches, making it the only mainstream and futureproof low power radio technology in the world. You have the freedom to adjust a single light or a group of luminaires. Casambi provides control options that include light color and temperature. Set timers, groupings, and so much more.



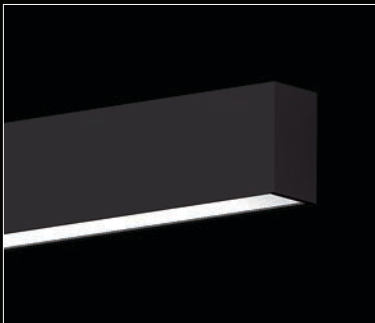
# Selux Metal Finishes



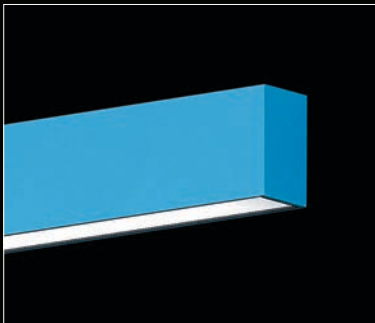
White  
(WH)



Silver  
(SV)



Semi-Matte Black  
(BL)



Custom RAL finish  
(SP)



## Separate Switching

Luminaires available with separately switched (nominal) sections starting at 7' and up. Luminaire is intended to be wired to the same panel/breaker (not intended for emergency use).



## Configurations

Create comfortable and aesthetically pleasing rooms with custom configurations. M-LED can help set the mood, emphasize architectural features, and highlight artwork and other decorative elements. Lit horizontal 90° corners - X, Y, and T configurations are available and cut to the precise length you are looking for.



## Sensors

With capabilities like motion or vacancy sensing as well as more advanced information tracking, sensors in M-LED allow for complete control of the lighting and the installed space. We have several standard sensors right on our product spec sheets, or can incorporate others for project-specific needs – just consult the factory with your request!



Westwood Maintenance Building, Washington, NJ





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