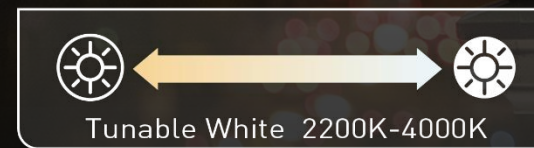
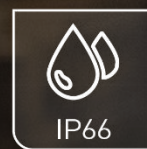


# Cellos

FL39 LED Projector Floodlight



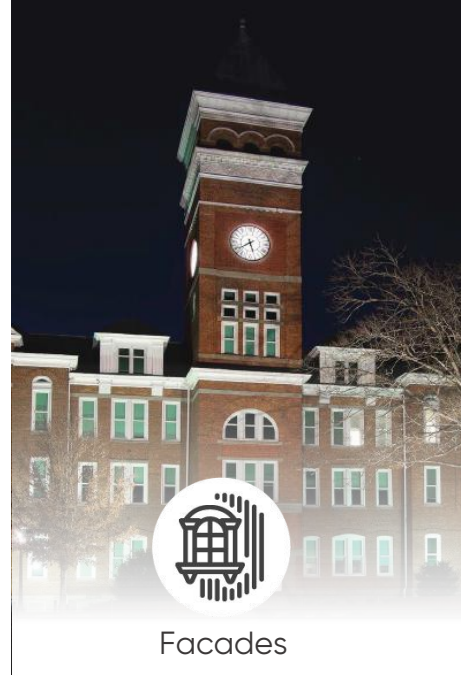
# DESIGN CONCEPT

Cellos is designed to meet desire for high-end level demands of facade and landscape lighting.

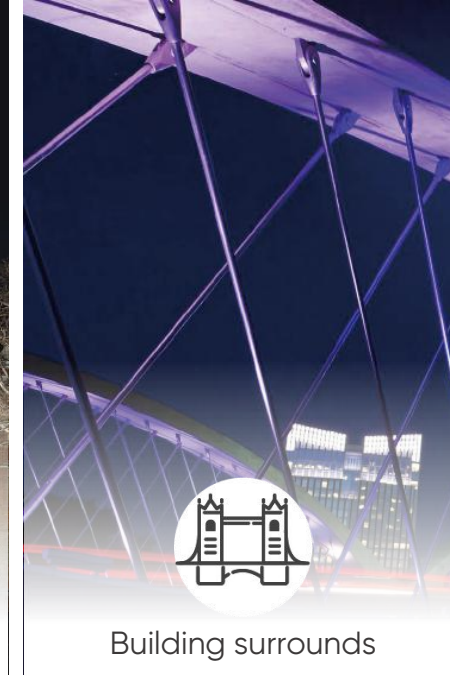
Prospective design on large scale heat sink offers active thermal management and compatible with kinds of optics possibilities, allowing place tailored intelligent module inside as well. The design of the building often determines the colours and intensity of light needed.

Cellos is positioned to assist with any application.

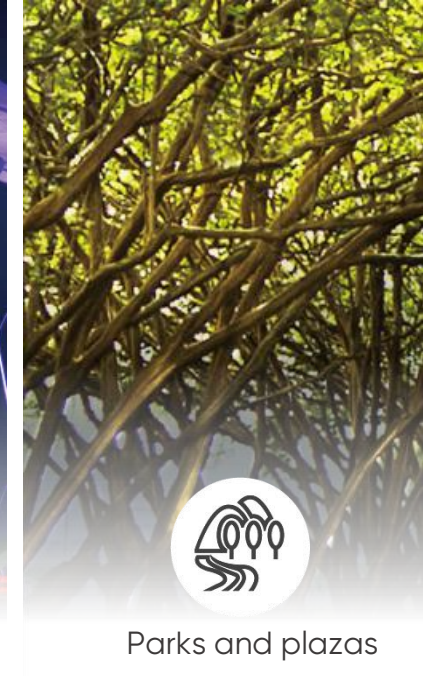
Cellos, its peerless style integrated into architectural aesthetics naturally.



Facades

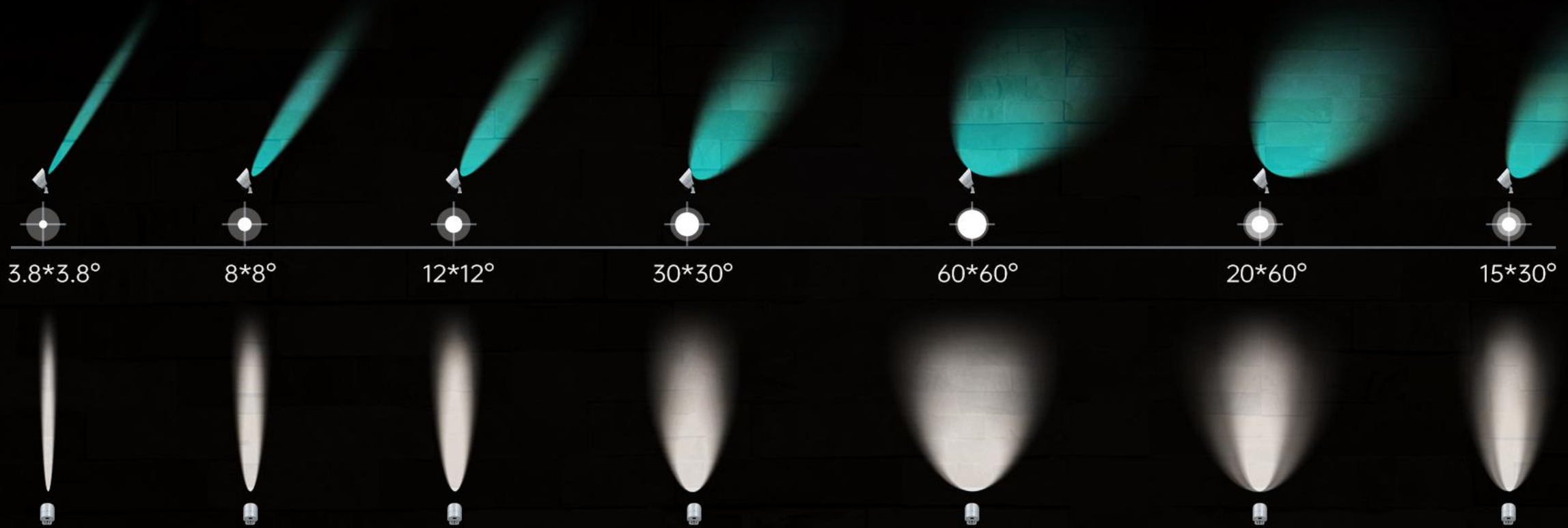


Building surrounds



Parks and plazas





## Multiple & Precise

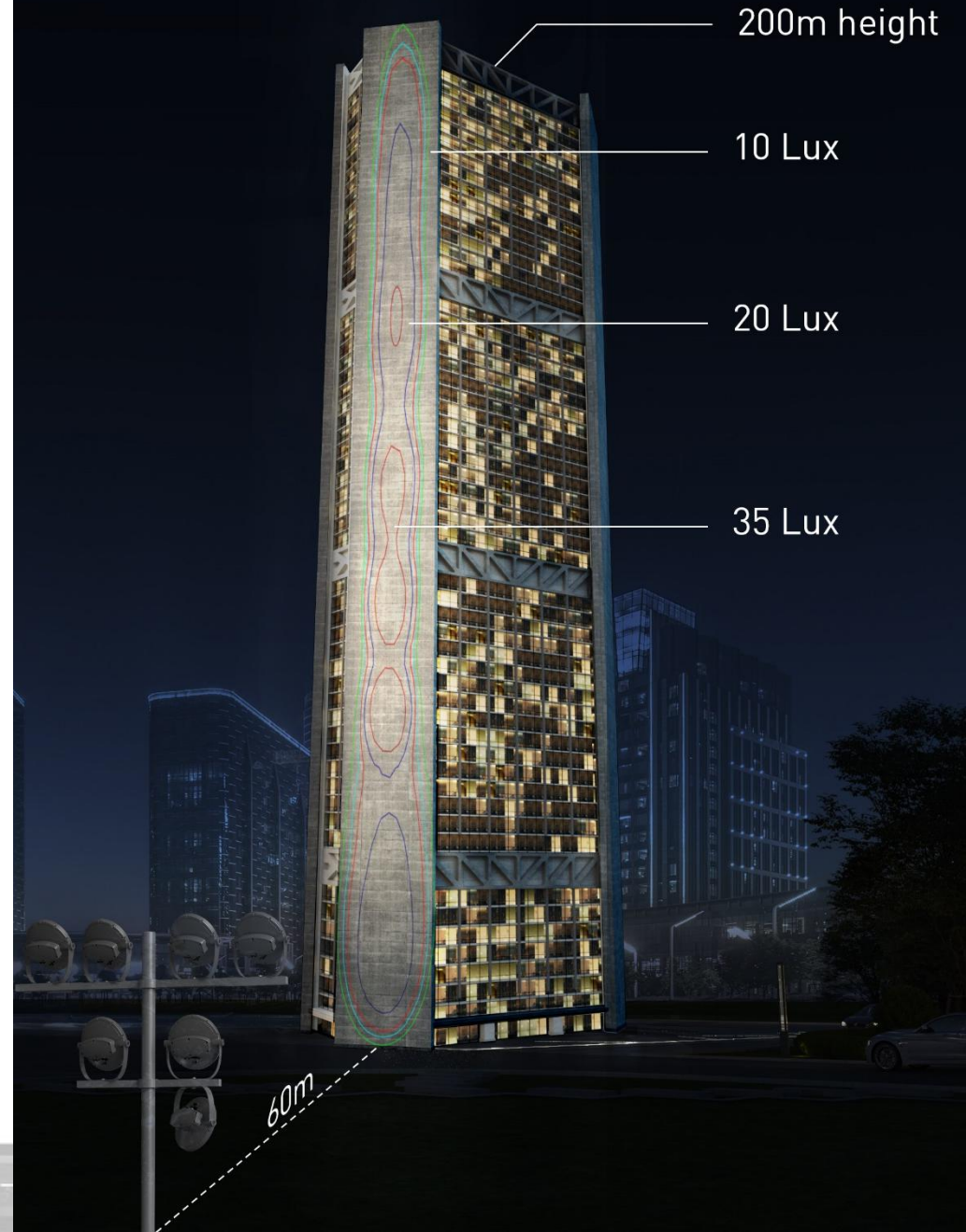
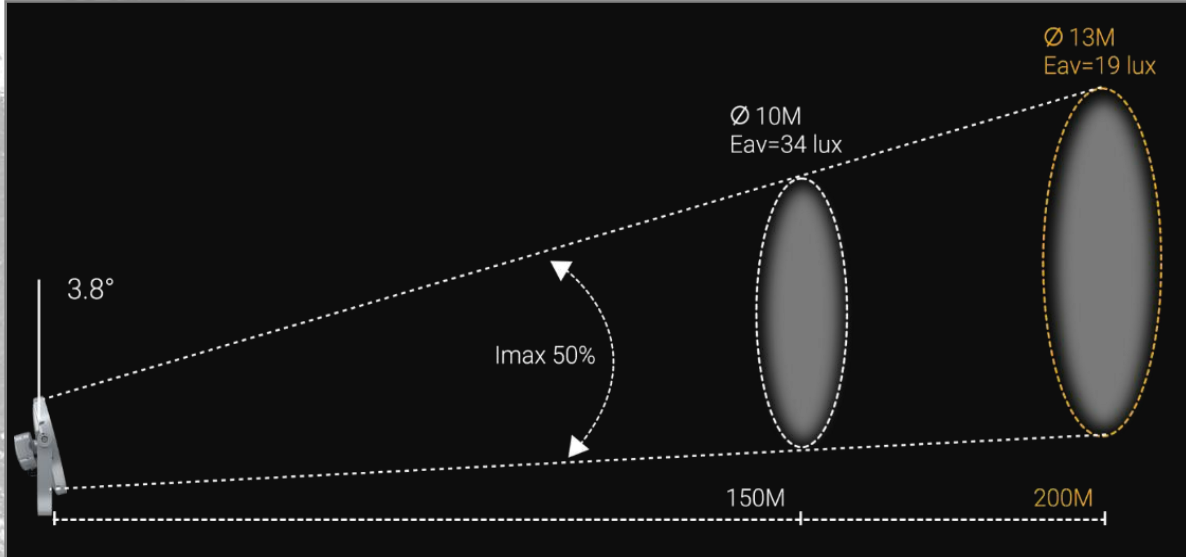
### Optics

From super spot to wide flood, Cellos allows a real light scenario to be created via different mounting and minimized its visual impact. Sharp beam and clean-cut bring superb visual comfort.



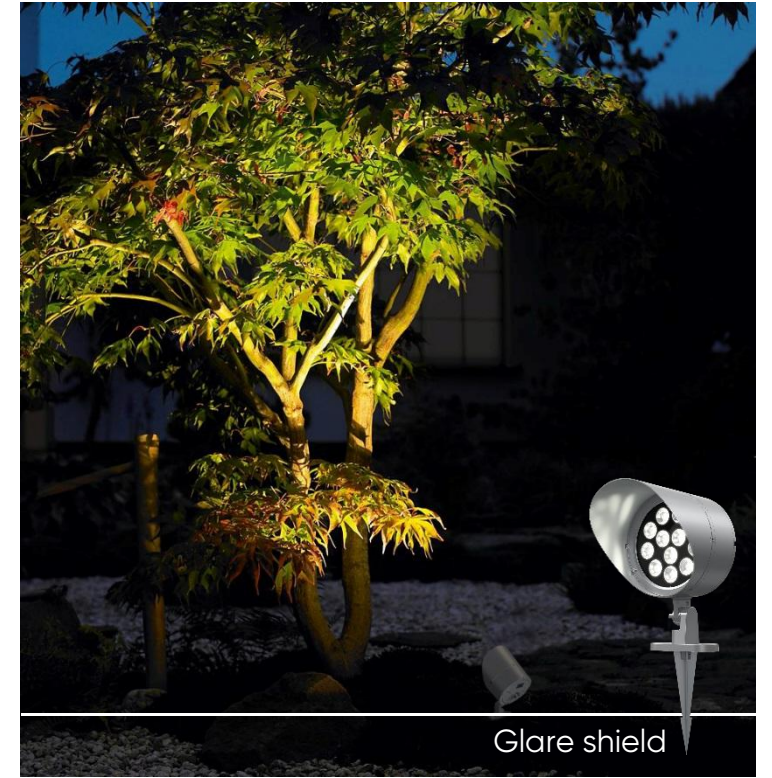
# Multiple & Precise Optics

3.8° sharp beam could illuminate very far distance even up to 200 meters.



# Optic Accessories

Minimize up lighting pollution and glare  
Endless opportunities to adapt light flow through professional accessories that meet all needs by localizing light only where and as needed.

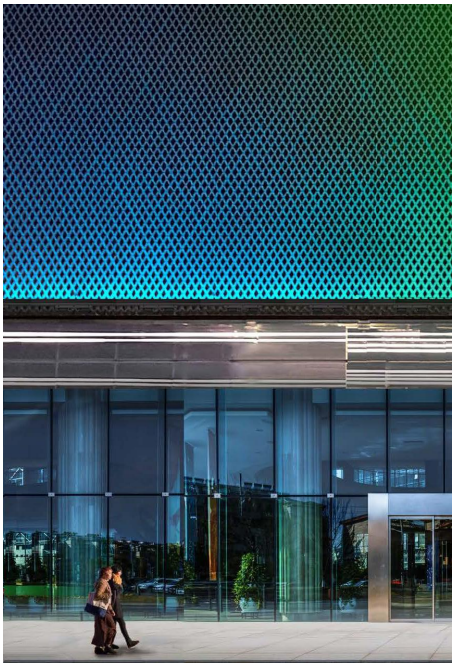


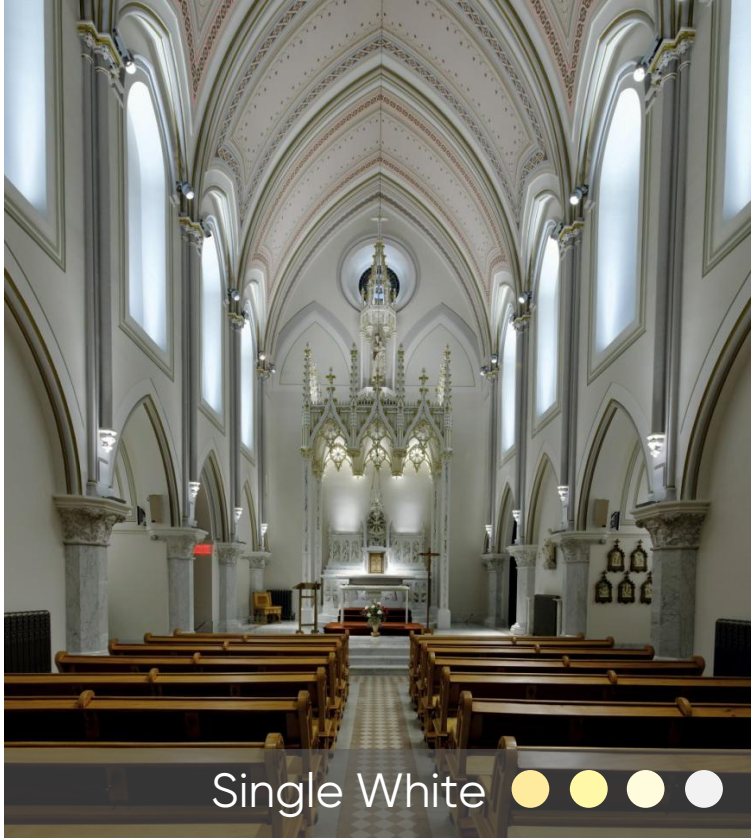
# City Lighting Color

Color is a vital tool for urban preservation, Color and light are one of the most important element

Today, colors play a major role in elevating the quality of urban environment, by providing a milieu for citizens' interactions in public places.

Public places are considered as one of the important components of urban design. Utilization of colors in urban spaces creates a sensation full of vivacity and calmness on the citizens.

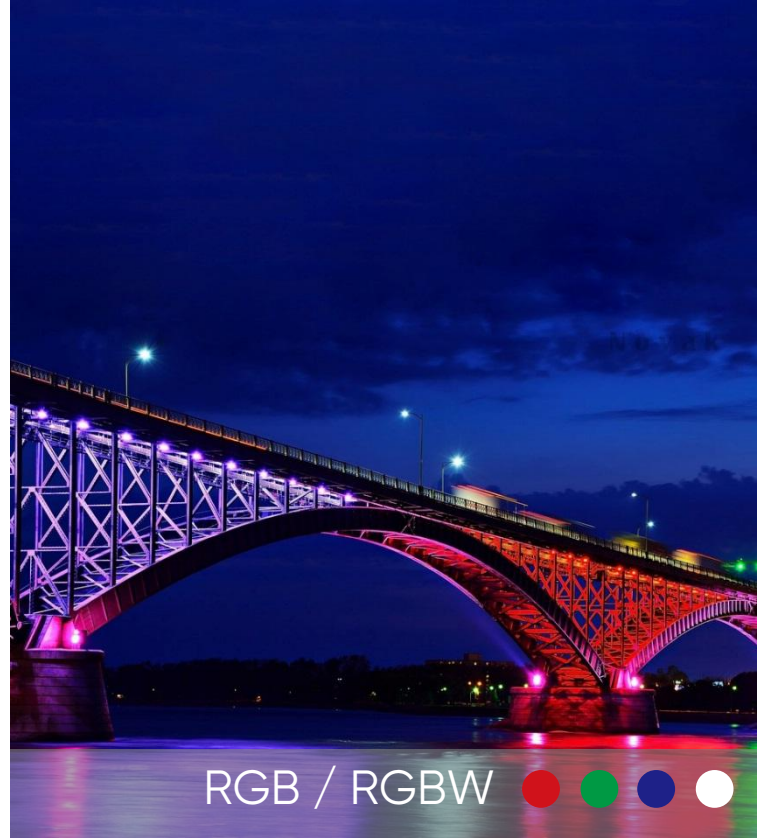




Single White ● ● ● ●



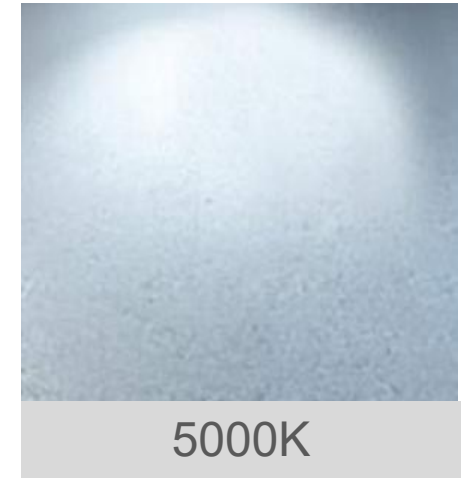
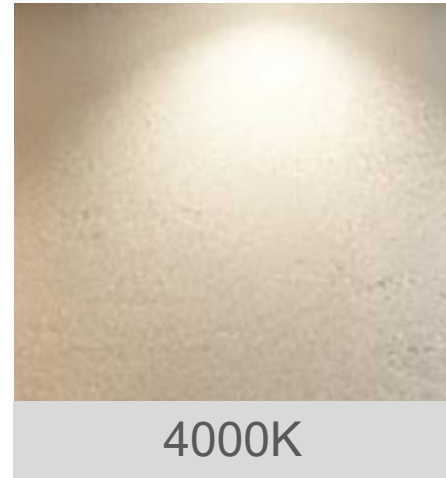
Tunable White ▬



RGB / RGBW ● ● ● ●

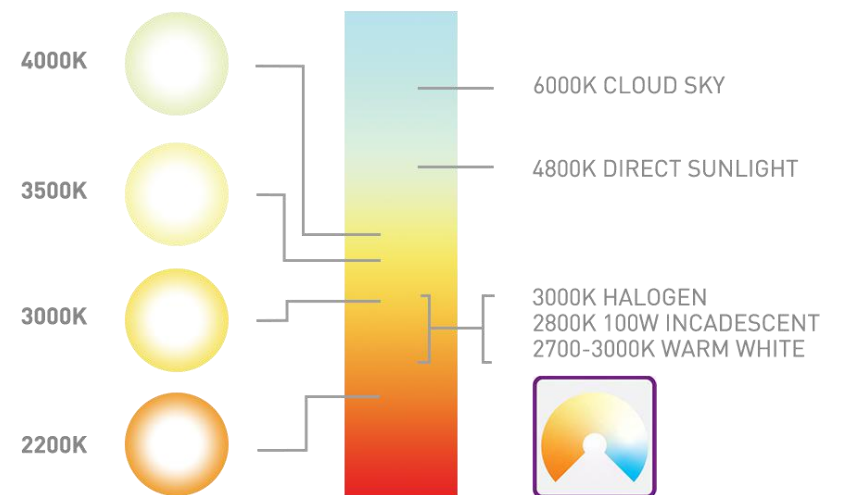


# Single White from 2200K, 3000K, 4000K, 5000K



## Tunable White?

- Control your color temperature, while maintaining brightness
- Adjust from 4000K to 2200K
- Great for new construction; 4 wires with 2 dimmers or DMX
- Mimics a blazing sunset at full brightness 2200K
- Using lighting control modules, allows for gradual tuning that has a smooth temperature gradient without color distortion.





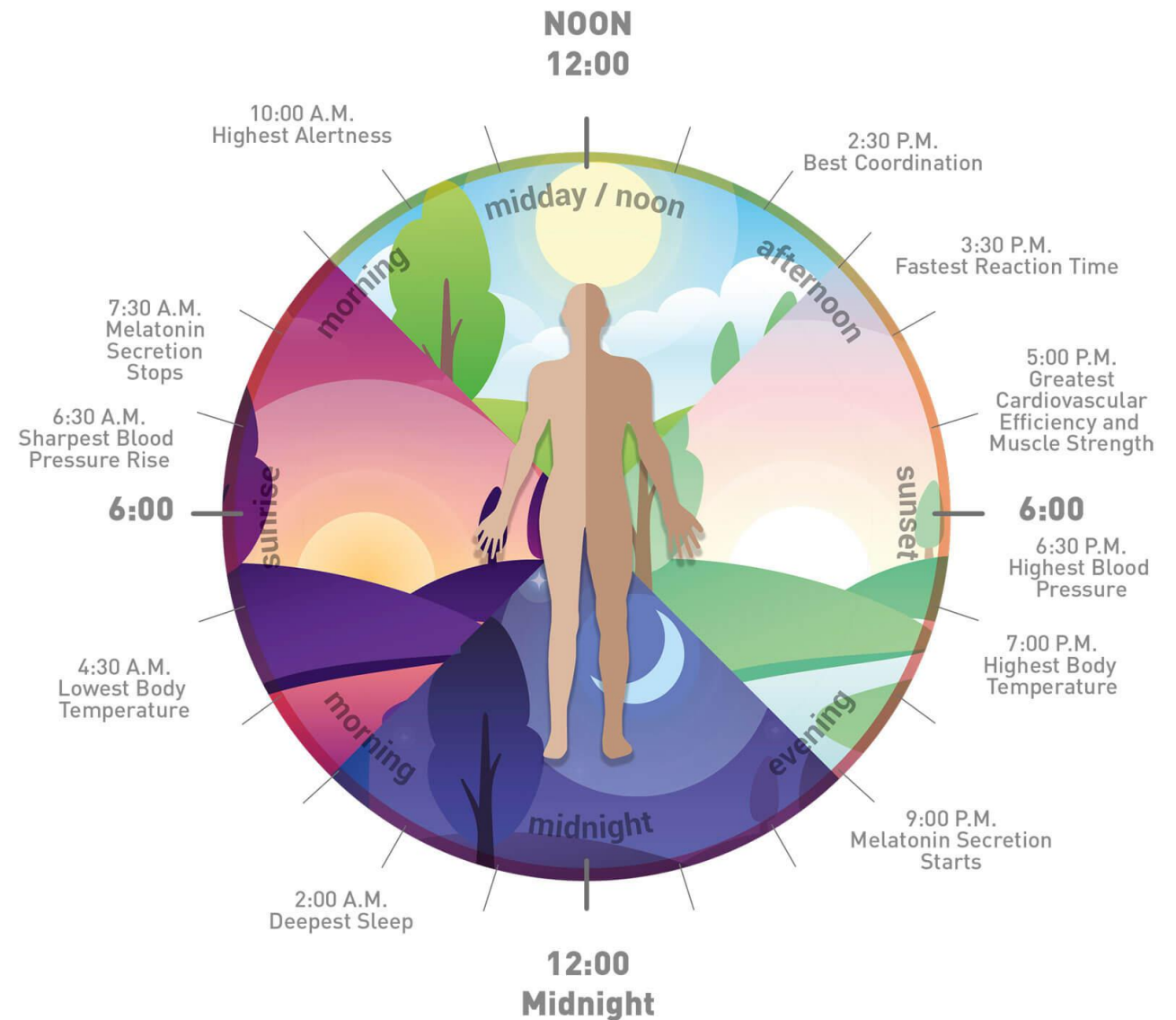
# Tunable white

## Effects on circadian rhythm

Extensive studies show the significant relationship between light intensity and alertness. Humans are responsive and sensitive to light.

This circadian rhythm directly affects the song and dance of our hormone levels, melatonin secretions, concentration and bodily functions. Tunable white lighting products could support circadian rhythm, have been widely used in indoor lighting.

Tunable system clearly can offer benefits for outdoor lighting.



<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2717723/>

# Tunbale Light

Improve community safety,  
promote life happiness index

Cooler, blue-rich lighting has clearly been shown to impact sleep patterns.

Some people believe that during times of high activity, 4000K provides better visibility for a safer environment. Later at night as activity levels drop, hope the municipality warm the lights to 2700K for better sleep via DMX control.



For instance, "Imagine the improved public safety if all of the floodlights in an area were immediately whiter and brighter to exposure offender trace when a alarm call was responded to, but otherwise dimmer and more yellow at night for restful sleep"



# Tunbale Light

**Adjusting facade aesthetics of the city at different time and season.**

2200K deep warm white colour temperature that adapts to architectural colour schemes and restores the warmth of traditional lamps.



# RGB and RGBW

RGBW versions add chromatic dynamism to the nocturnal scene.

Smart Control : DMX512 with built-in RDM module



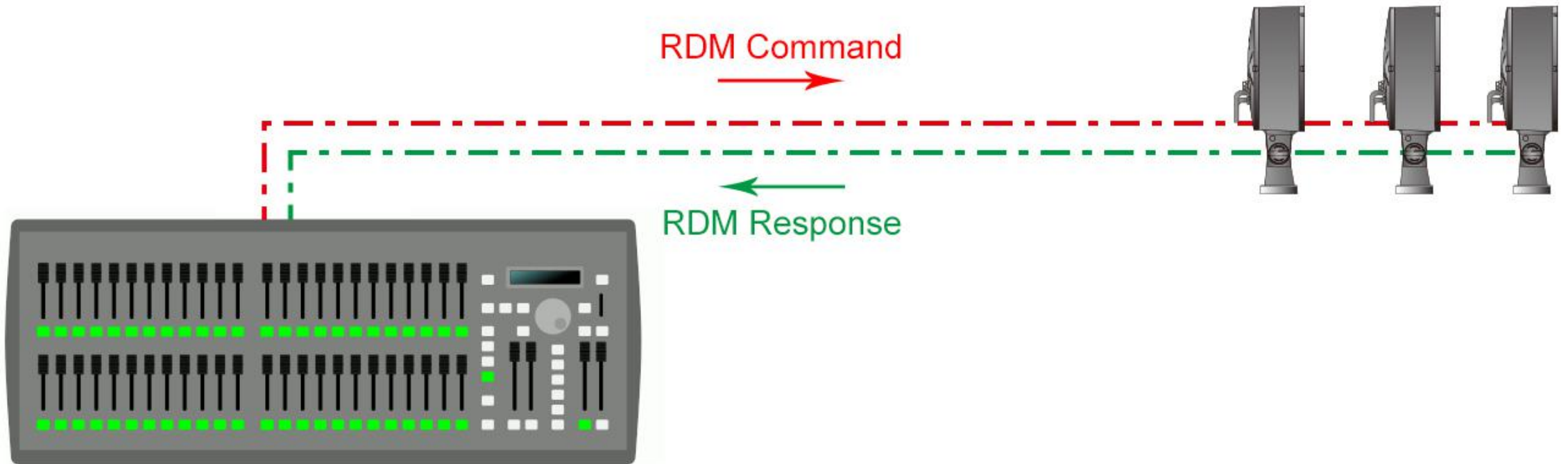
# What is RDM?



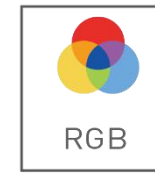
DMX is a unidirectional protocol which means that the data flows in one direction – from the control desk to the lights.

With the addition of RDM, the DMX512 system becomes a bi-directional (half-duplex) system. The controller is able to send out a question to devices on the wire, which can then respond with an answer.

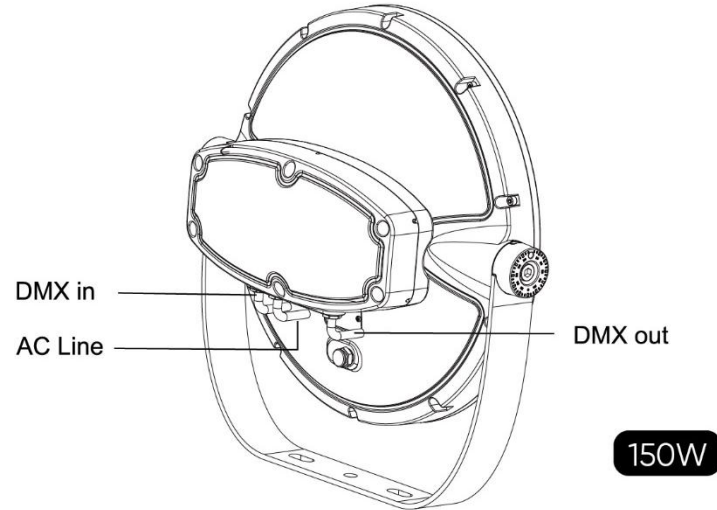
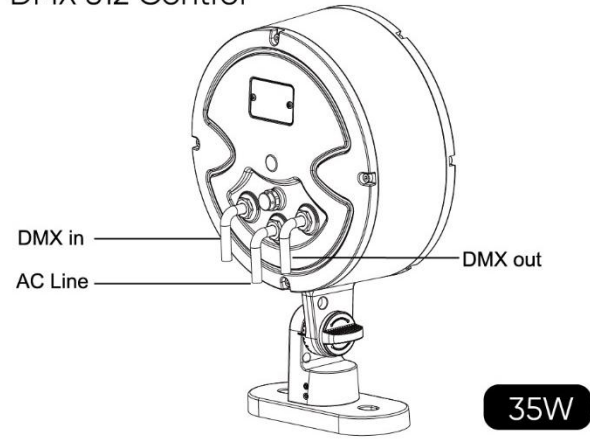
RDM can help to setting DMX addresses, modes and other configuration tasks, plus monitoring sensors, usage, status messages and fault finding.



# DMX 512 Control Wiring



DMX 512 Control



AC Line



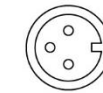
- L brown
- L blue
- l black
- l white
- l green



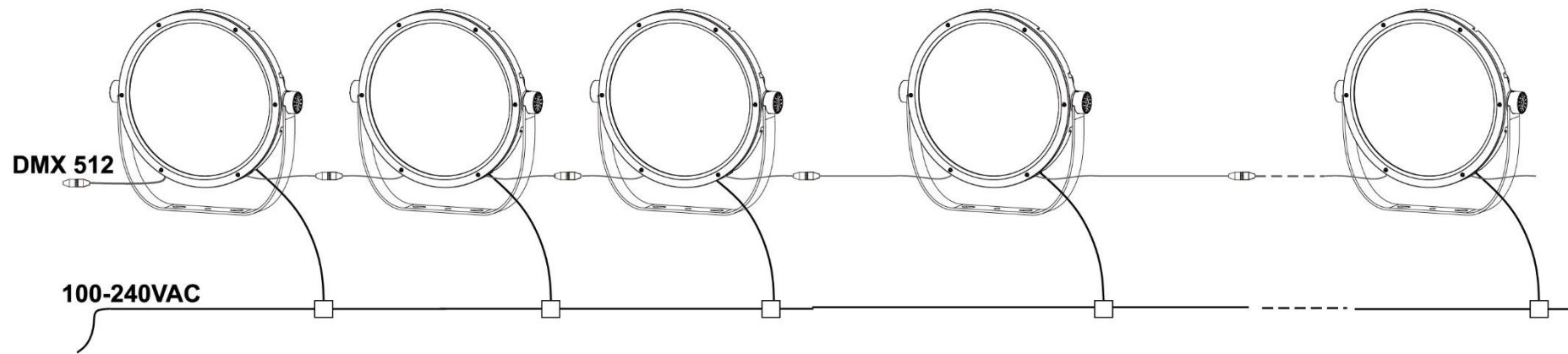
DMX in



DMX out



Tips: Pls connect a signal amplifier between 100m or every 32 lights



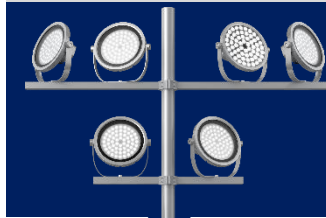
# Installation Possibilities

Building facades , square, bridge, parks, gardens and other landscape lighting etc.

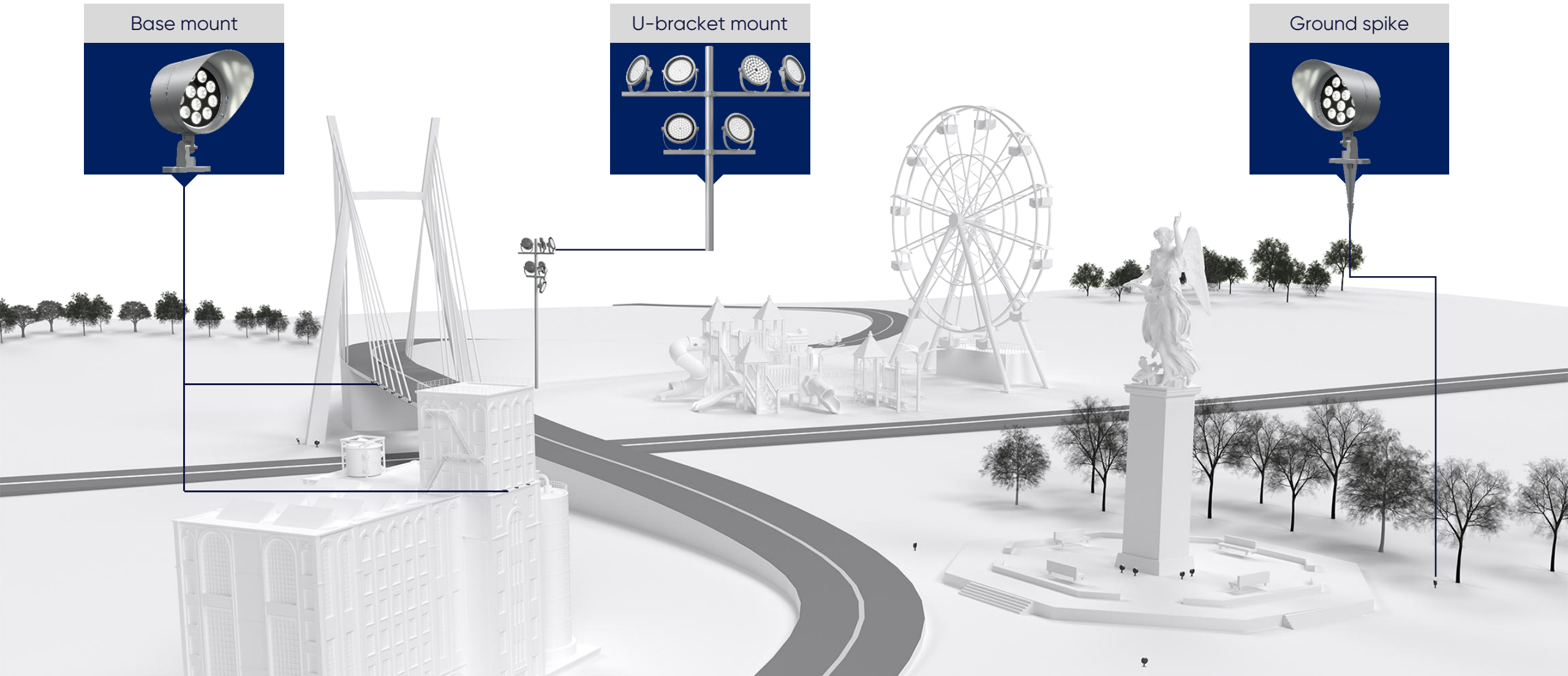
Base mount



U-bracket mount



Ground spike



# Datasheet Parameter

## Electrical Information

Model No.	FL39-35 released	FL39-100 coming soon	FL39-150 released	FL39-200 pending	FL39-240 pending
Power Consumption(±5%)	35W	100W	150W	200W	240W
Power Supply	SOSEN/MOSO/CZCL				
Input Voltage	AC 100-240V, 50 / 60 Hz				
Power Factor	>0.9				
Surge Protection	SOSEN: 10kV lline-earth, 6kV line-line / MOSO: 10kV lline-earth, 5kV line-line / CZCL: 6kV lline-earth, 4kV line-line				
Driver Type	Constant Current (CC)/constant voltage (CC)				
Control	DALI dim/0-10V dim/Bluetooth control/DMX control				

## Optic Information

LED Type	CREE				
Luminous Flux (±5%)	3500lm/2450lm	10000lm/7000lm	15000lm/10500lm	20000lm	24000lm
Efficacy(@4000K Ra80)	100lm/W /70lm/W(with honeycomb film)				
Color Temperature	4000K (2200K,3000K, 5000K optional)/RGB/RGBW/CCT adjustable(2200K-4000K)				
Color Rendering Index	Ra80 (Ra70, Ra90 optional)				
Beam Angle	3.8°/8°/12°/30°/60°/20*60°/15*30°				
Mounting	Spike,Based mount, U bracket				





# Cellos

Warm, colorful, dynamic to be your City Light!

