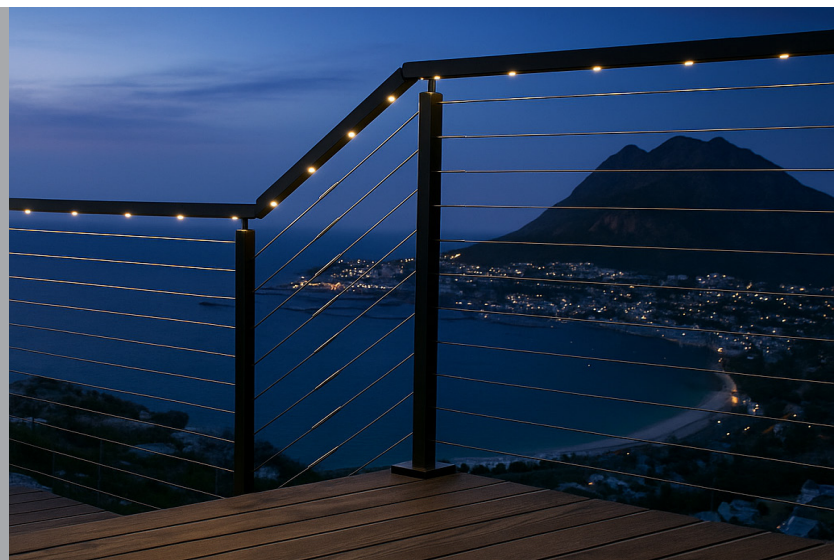


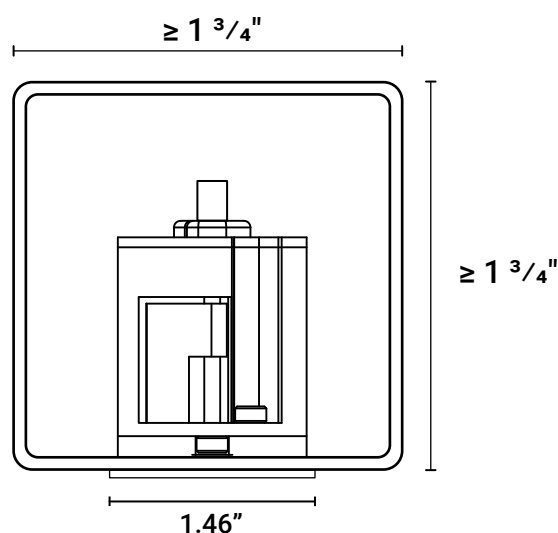


AS45-RGB

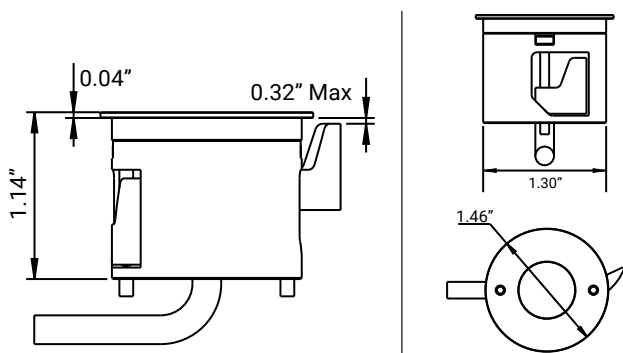
AS45



S33 DOT MODULES



Dimensions



FEATURES

The S33 Dot Modules bring precise, focused illumination to each stair tread, casting a controlled downward beam that improves visibility along the path of travel. Crafted from 316L stainless steel, every module is designed for long-term reliability in tough environments. Installation into square or rectangular handrails is simple. The included $1 \frac{3}{8}$ " carbide-tipped hole saw and drill jig ensure fast, accurate cutting, and a jack screw secures each module firmly from underneath the handrail – no adhesives or external fasteners needed. Compatible with standard square or rectangular handrails of $1 \frac{3}{4}$ " x $1 \frac{3}{4}$ " minimum, with wall thickness between 0.040" and 0.118".

LUMENS	110L / 150L
CCT	27K/30K/35K/40K/RGB
DIMMING	Fixed Output
CRI	90+ CRI
VOLTAGE	24v DC - Constant Voltage
IP RATING	IP 67
BEAM PATTERNS	Asymmetric 45°
WORKING TEMPERATURE	-4° F to 113° F
LIFETIME (TM-21)	L70 > 55,000 hours



OPTICS

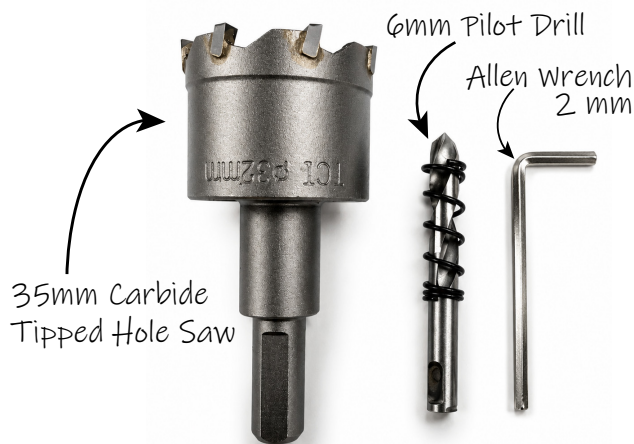
The S33 Dot Modules deliver controlled, downward illumination for stair treads and pathways. An asymmetric beam distribution directs light across the tread surface where it is needed most, while the acrylic optic keeps the output precise and controlled. 90 CRI is standard for accurate color rendering, with RGB and DMX512 control available for dynamic lighting applications.

CONSTRUCTION

Each S33 Dot Module is crafted from 316L stainless steel for long-term durability and corrosion resistance in demanding environments. A double O-ring seal provides IP67 wet-location protection, making the module suitable for outdoor and exposed applications. The compact design integrates cleanly into square or rectangular handrails while maintaining a refined, low-profile appearance.

INSTALLATION

The S33 Dot Modules are designed for seamless installation into square or rectangular handrails. The included 1 3/8" carbide-tipped hole saw and drill jig allow for accurate cutting, while a jack screw secures each module from underneath the handrail without adhesives or external fasteners. Compatible with square or rectangular handrails measuring at least 1 3/4" x 1 3/4" with 0.040" and 0.118" wall thickness, each module installs into a 1 3/8" mounting hole. A single 96W driver can power up to 50 modules in one run.



*Drilling Kit Sold Separately

DRIVERS

Power is provided by means of industry leading constant voltage LED drivers rated for universal power input from 120V to 277V at a frequency of 50-60Hz. Elite drivers produce less than 20% THD, and have a power factor of .90 to 1.00.

LISTINGS

UL Listed for Wet Location

cULus Listed for Wet Location

FCC 15 - EMI/RFI emission per FCC 47CFR part 15 at 120VAC or 277VAC

RoHS - Contains no mercury or lead and RoHS compliant

Photometric testing completed in accordance with IES LM-79 and TM-30 standards

Qualifies for California Title 24 high-efficacy LED compliance

WARRANTY

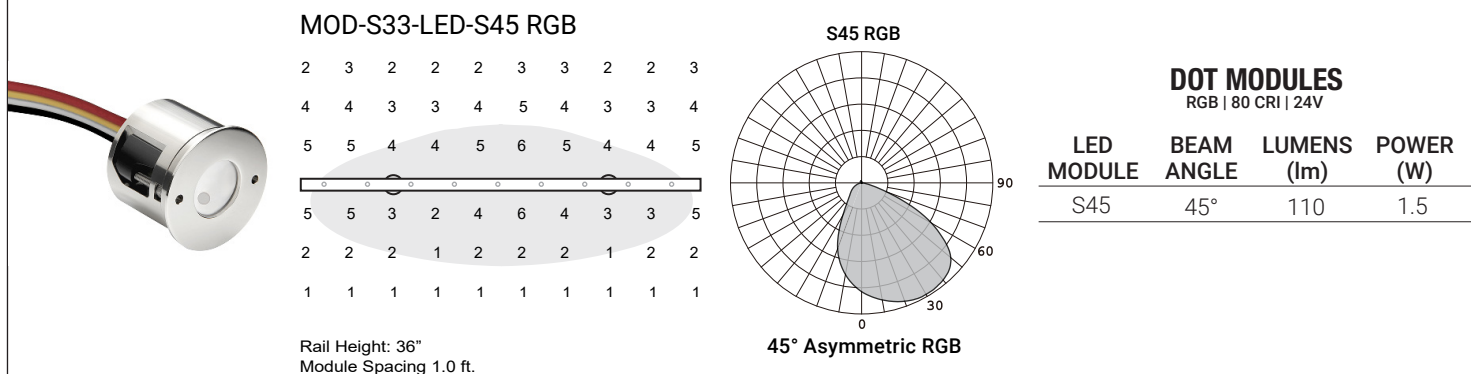
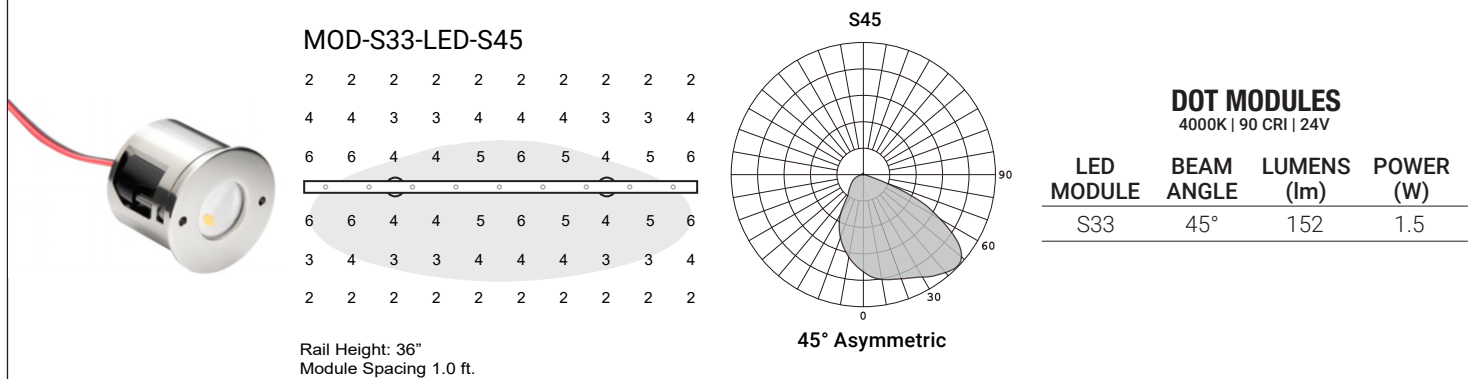
Five-year warranty for parts and components (labor not included).

REMOTE DRIVER WIRING DISTANCE

TOTAL FIXTURE WATTAGE	MAX. CABLE LENGTH FROM DRIVER TO FIXTURE				
	18G	16G	14G	12G	10G
10W	134'	215'	345'	539'	784'
20W	68'	109'	174'	272'	397'
30W	45'	72'	115'	181'	263'
40W	33'	54'	86'	135'	197'
50W	27'	43'	69'	108'	158'
60W	22'	36'	57'	90'	131'
70W	19'	31'	49'	77'	112'
80W	17'	27'	43'	68'	98'
90W	15'	24'	39'	62'	95'
100W	14'	22'	36'	56'	82'

MOD-S33-LED					
SERIES	OPTICS	POWER	CCT (90 CRI)	DRILLING KIT	DRIVER
S33-S33 Dot Square Profile	AS45- Asymmetric 45°	1.5 - 1.5 Watt	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K RGB - DMX512 RGB	DK- Hole Saw + Accessories	30W - 30 Watt 60W - 60 Watt 96W - 96 Watt

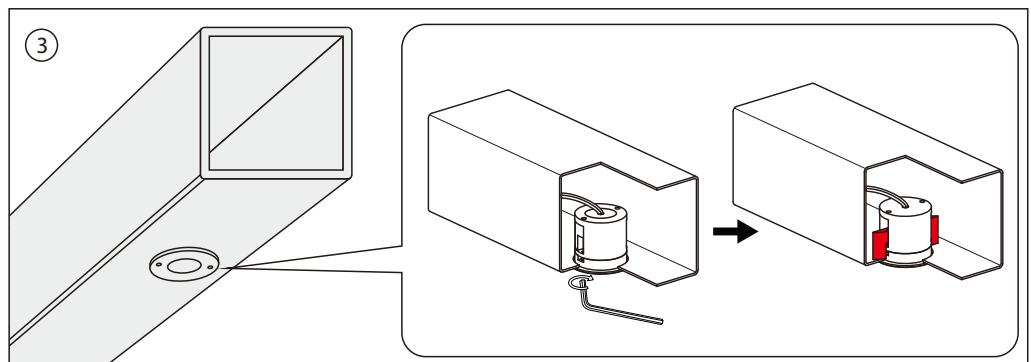
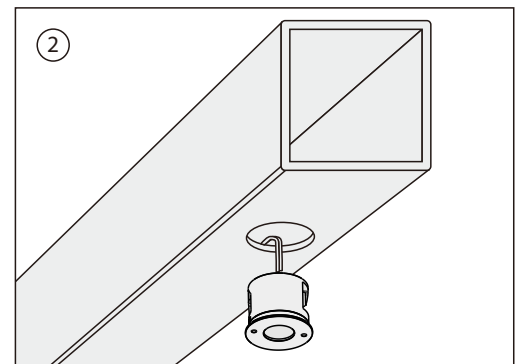
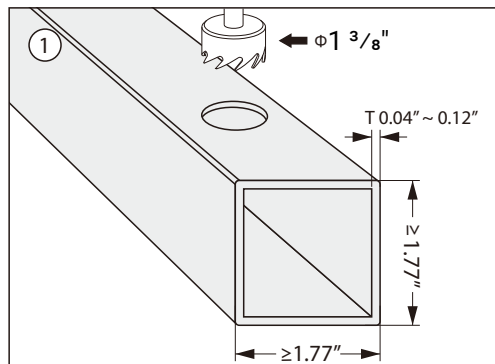
Photometric Data



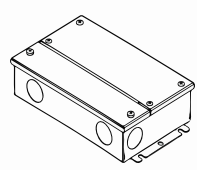
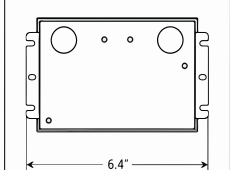
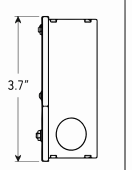
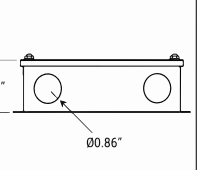
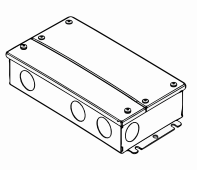
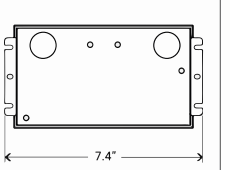
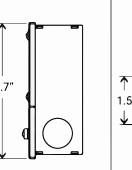
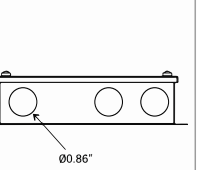
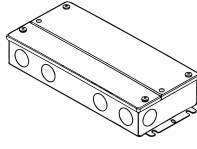
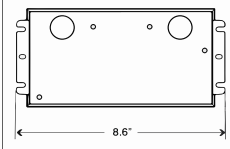
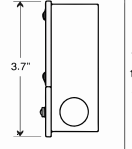
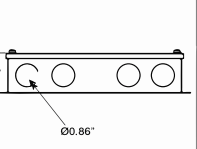
LED Module Installation & Removal:

Instructions

1. Drill a $\varnothing 1 \frac{3}{8}$ " hole in the square handrail, confirming the tube size and wall thickness are within the required range.
2. Feed the wire through the opening and insert the module into the handrail.
3. Tighten the internal set screws to lock the module securely in place.
4. Confirm the module is seated flush and properly aligned on the underside of the handrail.



Remote Driver Specifications

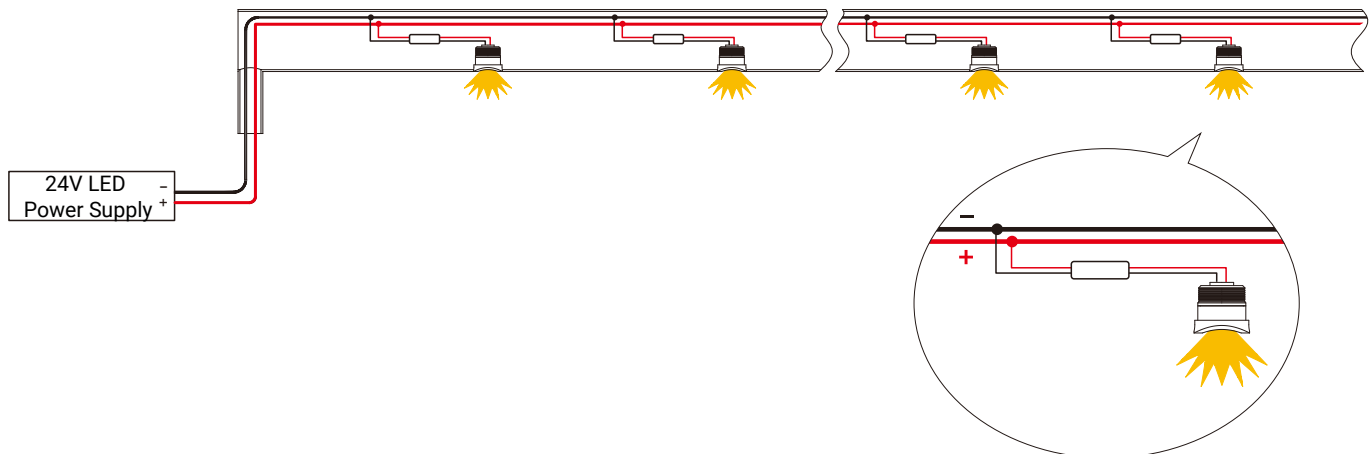
30W Max: 18 Modules	ED-30W-24V-TRIAC/DIM10 	    ED-30W-24V-TRIAC/DIM10
60W Max: 36 Modules	ED-60W-24V-TRIAC/DIM10 	    ED-60W-24V-TRIAC/DIM10
96W Max: 54 Modules	ED-96W-24V-TRIAC/DIM10 	    ED-96W-24V-TRIAC/DIM10

*Max Modules based on 1' spacing with 18AWG wiring

Model	Input Voltage	Output Voltage	Wattage	Max. Output Current	Frequency	Location	Certificate
ED-30W-24V-TRIAC/DIM10	100-277VAC	24V	30W	1.25A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS
ED-60W-24V-TRIAC/DIM10	100-277VAC	24V	60W	2.50A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS
ED-96W-24V-TRIAC/DIM10	100-277VAC	24V	90W	4A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS

LED Module Wiring

Suitable for class 2 power, maximum load not to exceed 100W



RGB / AC to DC (DMX WiFi)

This solution enables the RGBW strip light to function with a DMX512 Dimmable LED Driver AC to DC-DMX WiFi system. It includes the following components:

LB-2108-24-96CVF-UL Driver – Powers the RGBW strip light and integrates the DMX decoder, converting the DMX signal to control signals that adjust the color and brightness of the strip light.

Converter – Wired to the LB-2108-24-96CVF-UL Driver, it processes the DMX control signals, ensuring the RGBW strip light operates properly, allowing for smooth adjustments to color and brightness.

DMX-WIFI Wall Controller – Sends the DMX WiFi signal wirelessly to the converter and the LB-2108-24-96CVF-UL Driver, enabling remote control of the RGBW strip light.

LED25W-24 Power Supply – Used in multiple locations: one powers the wall controller by converting 120V AC from the outlet to 24V DC, while another powers the converter, ensuring all components receive the proper voltage.

This configuration ensures seamless, remote control of the RGBW strip light through the DMX512 Dimmable LED Driver AC to DC-DMX WiFi system, providing precise control over the color and brightness of the strip light, while maintaining proper power conversion and signal processing throughout the system.

