



ENR 190X190

MARINE GRADE ENGINE ROOM LIGHT

Designed for Marine Electrical Instability

IP65 Front Rated | 80V Extended Tolerance | Zero EMI | Integrated Aluminum Driver

Thermal & High Voltage Protection | Custom Sizes & Finishes Available

STEIN TECHNOLOGY



Automatic Thermal Regulation
With Adaptive Power Control



Efficient heat dissipation design
minimizes overheating and
reduces fire risk.



EMI-Free Operation

TECHNICAL SPECS

ELECTRICAL DATA

System Power	9 Watt
Nominal Operating Voltage	20-30V DC
Extended Voltage Tolerance	Up to 80V DC (temporary operation)
Energy Efficiency	Up to 98%
Dimming	PWM dimmable (compatible with 1-10V and DALI systems via suitable driver)

OPTICAL PERFORMANCE

Luminous Flux	1080 lm
Luminous Efficacy	120 lm/W
Color Rendering Index (CRI)	≥90
Beam Angle	140°
Rated Lifetime	L70 lifetime >100,000h
Color Consistency	3-Step MacAdam Ellipse

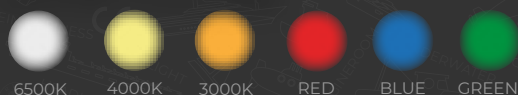
PROTECTION & SAFETY

Reverse Polarity Protection	Full electronic protection
Surge Immunity	IEC transient protection compliant up to 200V (short-duration spikes)
Driver Construction	Fully integrated aluminum-housed driver (no external plastic box)
Linear Constant Current Driver	No Switching Frequency
Flicker	0% Flicker (No PWM / No High Frequency Modulation)
Ingress Protection Architecture	IP65 front exposure / IP64 ceiling cavity protection

THERMAL MANAGEMENT

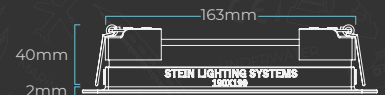
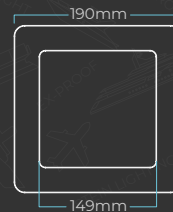
Operating Ambient Temperature	-40°C to +60°C
Max Case Temperature	70°C
Adaptive Thermal Regulation	Continuous thermal monitoring with dynamic current adjustment
Confined-Space Thermal Stability	Stable operation in low-ventilation ceiling cavities.
Adaptive Overvoltage Thermal Regulation	Automatic current derating under extended voltage conditions

LIGHT COLORS



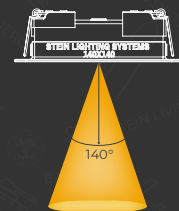
DIMENSIONS

These dimensions can be optionally changed

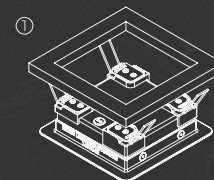


165X165mm

BEAM ANGLE



MOUNTING



- Drill the ceiling panel according to the specified dimensions.
- Fold the product's spring clips backward as shown, then insert the product into place.

FINISHES



Black Plastic Frame (PLA)



White Plastic Frame (PLA)

