

STN-1005

MARINE GRADE G4 TYPE PCB

Designed for Marine Electrical Instability

IP40 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	1 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	150
Luminous Efficacy	150 lm/W
Color Rendering Index (CRI)	≥90
Beam Angle	120°
Rated Lifetime	L70 lifetime >100,000h
Color Consistency	3-Step MacAdam Ellipse

PROTECTION & SAFETY

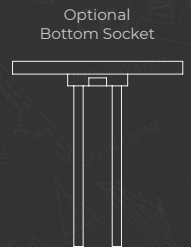
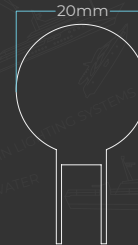
Reverse Polarity Protection	Full electronic protection
Surge Immunity	IEC transient protection compliant up to 200V (short-duration spikes)
Driver Construction	Fully integrated aluminum-housed driver (no external plastic box)
Linear Constant Current Driver	No Switching Frequency
Flicker	0% Flicker (No PWM / No High Frequency Modulation)
Ingress Protection Architecture	IP40 front exposure

THERMAL MANAGEMENT

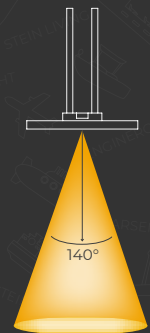
Operating Ambient Temperature	-40°C to +60°C
Max Case Temperature	70°C
Adaptive Thermal Regulation	Continuous thermal monitoring with dynamic current adjustment
Confined-Space Thermal Stability	Stable operation in low-ventilation ceiling cavities.
Adaptive Overvoltage Thermal Regulation	Automatic current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

DIMENSIONS

These dimensions can be optionally changed



BEAM ANGLE



LIGHT COLORS

