

STN-1006

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 | 10-20V 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

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|-----------------------------|------------------------|
| Luminous Flux | 150 |
| Luminous Efficacy | 150 lm/W |
| Color Rendering Index (CRI) | ≥90 |
| Beam Angle | 140° |
| Rated Lifetime | L70 lifetime >100,000h |
| Color Consistency | 3-Step MacAdam Ellipse |

PROTECTION & SAFETY

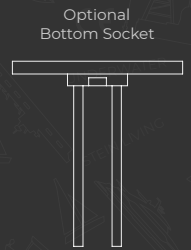
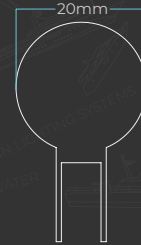
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|---------------------------------|---|
| Reverse Polarity Protection | Full electronic protection |
| Surge Immunity | IEC transient protection compliant up to 200V (short-duration spikes) |
| Driver Construction | Fully integrated aluminum-housed 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

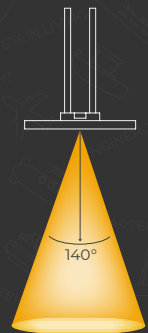
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|---|---|
| Operating Ambient Temperature | -40°C to +60°C |
| Max Case Temperature | 70°C |
| Adaptive Thermal Regulation | Continuous thermal monitoring with dynamic current adjustment |
| Confined-Space Thermal Stability | Stable operation in low-ventilation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

DIMENSIONS

These dimensions can be optionally changed



BEAM ANGLE



LIGHT COLORS

