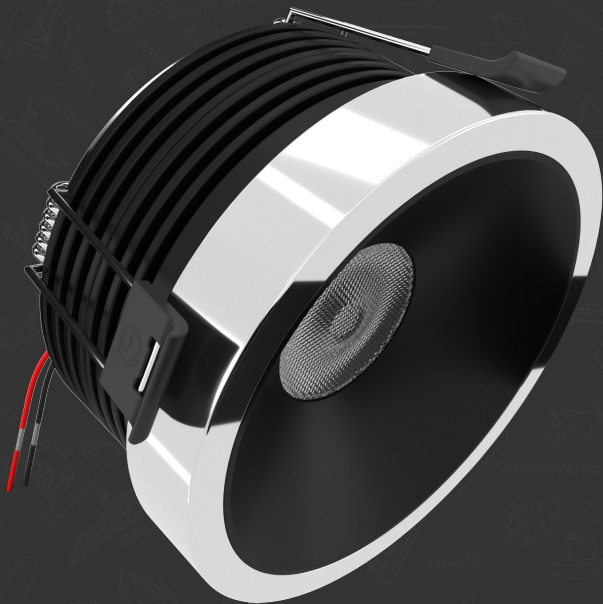


# NELLY 90-20

## MARINE GRADE DOWNLIGHT

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               | 6 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               | 720 lm                 |
| Luminous Efficacy           | 120 lm/W               |
| Color Rendering Index (CRI) | ≥90                    |
| Beam Angle                  | 45°                    |
| 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

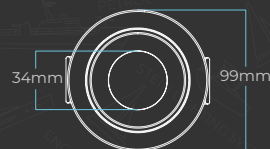
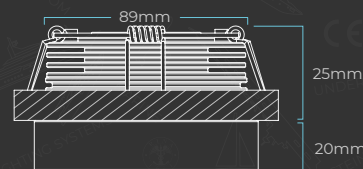
|                                         |                                                               |
|-----------------------------------------|---------------------------------------------------------------|
| Operating Ambient Temperature           | -40°C to +60°C                                                |
| 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

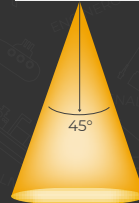
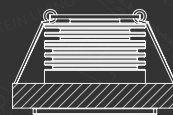


## BEAM ANGLE



Optional

Honeycomb Anti-Glare Optic  
(~20% lumen reduction)



## FINISHES



Polished  
Chrome



Polished  
Gold Plated



Black  
Painted



White  
Painted

