

**THORN**  
LIGHTING



# GTLED RS

High-performance tunnel lighting from entrance to exit



**WE  
MAKE  
LIGHT  
WORK**



## LIGHT THAT LASTS – FOR ANY TUNNEL

### LIGHTING COMFORT

GTLED RS uses Thorn's expertly developed R-PEC optics to deliver highly efficient, uniform illumination with excellent visual comfort. A low threshold increment (TI < 6%) supports optimal visual performance and enhanced driver safety.

### LONG-LASTING PERFORMANCE AND HIGH CORROSION PROTECTION

GTLED RS benefits from a long-life LED engine. Engineered with high-performance thermal management and resistance to the elements, its self-cleaning design maintains consistent optical performance over time in tunnel conditions. Moreover, it uses stainless steel grade 316TI that meets the highest level of corrosion protection (C5), to withstand the aggressive environment of tunnels.

### COMPREHENSIVE RANGE

GTLED RS offers a wide range of optics to suit many tunnel configurations. It is a highly versatile solution featuring two housing sizes and six LED configurations to fit perfectly with the four lighting zones (threshold, transition, interior, exit), each requiring specific lighting levels.

### EASY MAINTENANCE AND INSTALLATION

GTLED RS is designed for fast, straightforward maintenance. Drivers can be quickly and easily accessed via the hinged glass opening, should maintenance be required. It can be supplied with toolless connectors and has intuitive brackets for mounting.



### APPLICATIONS

All types of underpasses and road tunnels, including urban and suburban, sub-water and mountain. Suitable for threshold (adaptation), transition, interior, and exit lighting zones.

# A COMPLETE TUNNEL LIGHTING SOLUTION



## GTLED RS S

24 – 48 L up to 12 klm (25 °C)



## GTLED RS L

72 – 216 L up to 36 klm (25 °C)



## Bracket Accessory

## TECHNICAL DATA



### MATERIALS AND FINISH

- Two body sizes and six LED configurations
- Fabricated in grade 316TI stainless steel
- Enclosure: toughened glass (4 mm)
- External screws: A2 with anti seizing treatment
- Glass holder: 316 L stainless steel with anti seizing treatment
- Finish: powder coated white, RAL 9016

### INSTALLATION AND MOUNTING

- Suitable for surface mounting on to the ceiling with adjustable bracket (to be ordered as accessories)

### ACCESSORIES

- Adjustable bracket
- Pre-wiring with optional plug and socket connection

### CONTROLS

- DALI (HFX) for bi-directional communication with tunnel lighting control system
- Other control methods available on request



Up to  
170 lm/W



Up to 100,000 hours  
(L98 @Ta 25°C)



4000 K  
3000 K (on selected versions)



70



From 25 W  
to 228 W



IK09 (Small),  
IK08 (Large)



IP66



Symmetric  
Asymmetric  
Counter Beam



24 LEDs (4 klm at 25°C)  
to  
216 LEDs (36 klm at 25°C)



Up to 10 kV  
single pulse  
as standard



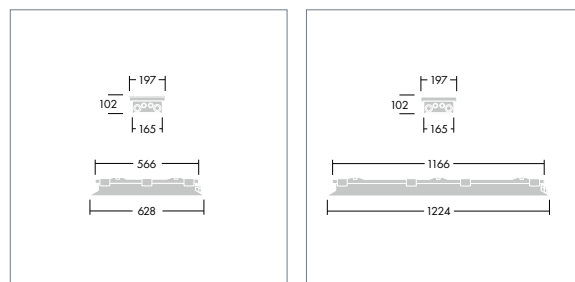
–30°C to 50°C  
(variant dependent)



Highest corrosion  
resistance class (C5)

## LUMINAIRE

GRS	24L	740	ASC	2M32	CL1
Range	LED	CCT/CRI	Optic	Glands and Wiring	Safety
				<b>2M32</b> <b>2M32/M20</b> <b>UPS</b>	<b>CL1</b> Electrical class 1 <b>CL2</b> Electrical class 2 M32 (x2) cable glands M32 (x2) and M20 (x2) cable glands Uninterruptible power supply (emergency)
			<b>A4-A</b> Asymmetric 40° <b>A5-A</b> Asymmetric 50° <b>A6-A</b> Asymmetric 60° <b>AESC</b> Axial Extra Street Comfort <b>ASC</b> Axial Street Comfort <b>CB2</b> Counter Beam Version 2 <b>CB2-LV</b> Counter Beam Version 2 with White Louver <b>ENR-A</b> Extra Narrow Road – Asymmetric <b>ENR-S</b> Extra Narrow Road – Symmetric <b>EW2-A</b> Extra Wide Street – Asymmetric <b>EWR-A</b> Extra Wide Road – Asymmetric <b>EWR-S</b> Extra Wide Road – Symmetric <b>NR-A</b> Narrow Road – Asymmetric <b>NR-S</b> Narrow Road – Symmetric <b>RC-A</b> Road Comfort – Asymmetric <b>RC-S</b> Road Comfort – Symmetric <b>RWT-A</b> Road Wet – Asymmetric <b>SC-A</b> Street Comfort – Asymmetric <b>WR-A</b> Wide Road – Asymmetric <b>WR-S</b> Wide Road – Symmetric <b>WT2-A</b> Road Wet – Asymmetric <b>WT2-S</b> Road Wet – Symmetric		
		<b>740</b>	4000 K CRI70		
	<b>24 L</b>	24 LEDs			
	<b>48 L</b>	48 LEDs			
	<b>72 L</b>	72 LEDs			
	<b>108 L</b>	108 LEDs			
	<b>144 L</b>	144 LEDs			
	<b>216 L</b>	216 LEDs			
GRS	GTLED RS				



GTLED RS S

GTLED RS L

The ambient temperature and the power rating have an influence on the useful lifetime of the luminaire.

Configure the ideal product solution with myProduct. The myProduct configurator allows you to easily configure a luminaire according to your needs.

Try it now at [www.thornlighting.com/myproduct](http://www.thornlighting.com/myproduct)



As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.  
[thornlighting.com/guarantee](http://thornlighting.com/guarantee)

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