

## Components

SKU	Description	Package Quantity	EEC	Energy Consumption (kWh/1000h)
GEMM71-W1	Tetra® miniMAX Wet White 7100K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM50-W1	Tetra® miniMAX Wet Warm White 5000K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM41-W1	Tetra® miniMAX Wet Warm White 4100K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM32-W1	Tetra® miniMAX Wet Warm White 3200K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM71-2	Tetra® miniMAX White 7100K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM50-2	Tetra® miniMAX Warm White 5000K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM41-2	Tetra® miniMAX Warm White 4100K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM32-2	Tetra® miniMAX Warm White 3200K	100 ft (30.48 m)/box (250 modules)	A++	0.356
GEMM71-2-CS1	Tetra® miniMAX White 7100K (6.6)	100 ft (30.48 m)/box (200 modules)	A++	0.356
GEMM50-2-CS1	Tetra® miniMAX Warm White 5000k (6.6)	100 ft (30.48 m)/box (200 modules)	A++	0.356
GEMM41-2-CS1	Tetra® miniMAX Warm White 4100K (6.6)	100 ft (30.48 m)/box (200 modules)	A++	0.356
GEMM32-2-CS1	Tetra® miniMAX Warm White 3200K (6.6)	100 ft (30.48 m)/box (200 modules)	A++	0.356
GEMMRD-W1	Tetra® miniMAX WET Red	100 ft (30.48 m)/box (200 modules)		
GEMMBL-W1	Tetra® miniMAX WET Blue	100 ft (30.48 m)/box (200 modules)		
GEMMGL-W1	Tetra® miniMAX WET Green	100 ft (30.48 m)/box (200 modules)		
GEMMPO-W1	Tetra® miniMAX WET Orange	100 ft (30.48 m)/box (200 modules)		
GEMMRD-1	Tetra® miniMAX Red	100 ft (30.48 m)/box (250 modules)		
GEMMBL-1	Tetra® miniMAX Blue	100 ft (30.48 m)/box (250 modules)		
GEMMGL-1	Tetra® miniMAX Green	100 ft (30.48 m)/box (250 modules)		
GEMMPO-1	Tetra® miniMAX Orange	100 ft (30.48 m)/box (250 modules)		
68347/75514	9409 18 AWG Supply Wire (0.82 mm <sup>2</sup> )	500 ft/spool (152.4 m)		
191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm <sup>2</sup> )	500/ PK		
192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm <sup>2</sup> )	500/ PK		

## Technical specifications

Color	Wavelength	Typical Brightness (lumens/module)	Typical Brightness (lumens/m)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading	Viewing Angle
Tetra miniMAX White Wet	7100K, 5000K	36	295	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Warm White Wet	4100K, 3200K	34, 30	279, 246	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX White	7100K, 5000K	36	295	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Warm White	4100K, 3200K	34, 30	279, 246	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Red	625nm	11	90	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Blue	467nm	8	66	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Green	530nm	24	197	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Orange	606nm	19	156	0.48	0.59	18.18 m (150 modules)	150
Tetra miniMAX WET Red	625nm	11	90	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX WET Blue	427nm	8	66	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX WET Green	530nm	24	197	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX WET Orange	603nm	19	156	0.48	0.59	18.18 m (150 modules)	150

## Specification Item

## Specification

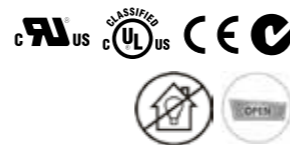
LEDs/ Module	3
Module/m	~8.2 / ~6.6. (CS1)
Cutting Resolution	Cut on wire between every module
Power Supply	GEPS12-25 Input: 90-264VAC; Output: 12VDC GEPS12-60-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 90-305VAC; Output: 12VDC
Maximum Supply Wire Limits	<b>60W, 80W, 100W, 180W</b> <b>25W</b> <b>Supply Wire Gauge</b> 20 ft (6.1m)      120 ft (36.6m)      18AWG/0.82mm <sup>2</sup> supply wire - 9409 25ft (7.6m)      16AWG/1.31mm <sup>2</sup> supply wire 35ft (10.6m)      14AWG/2.08mm <sup>2</sup> supply wire 40ft (12.1m)      12AWG/3.31mm <sup>2</sup> supply wire Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).
Operating Environment	-40 °C to + 60 °C
Module Dimensions (h x l x w) Wet	9 x 57 x 18 mm
Module Dimensions (h x l x w)	8 x 48 x 12 mm
Sign Dimensions	For best results, recommended sign depth is 1.5 inches (38mm) or greater
Warranty	GE offers a limited system warranty of up to five (5) years
System Certifications	UL Recognized #E219167, UL Classified #E229508, CE, C-tick, RoHS, <b>IP68* rated</b> for dry, damp or wet location

\*5m / 60 min (not for continuous operation under water)

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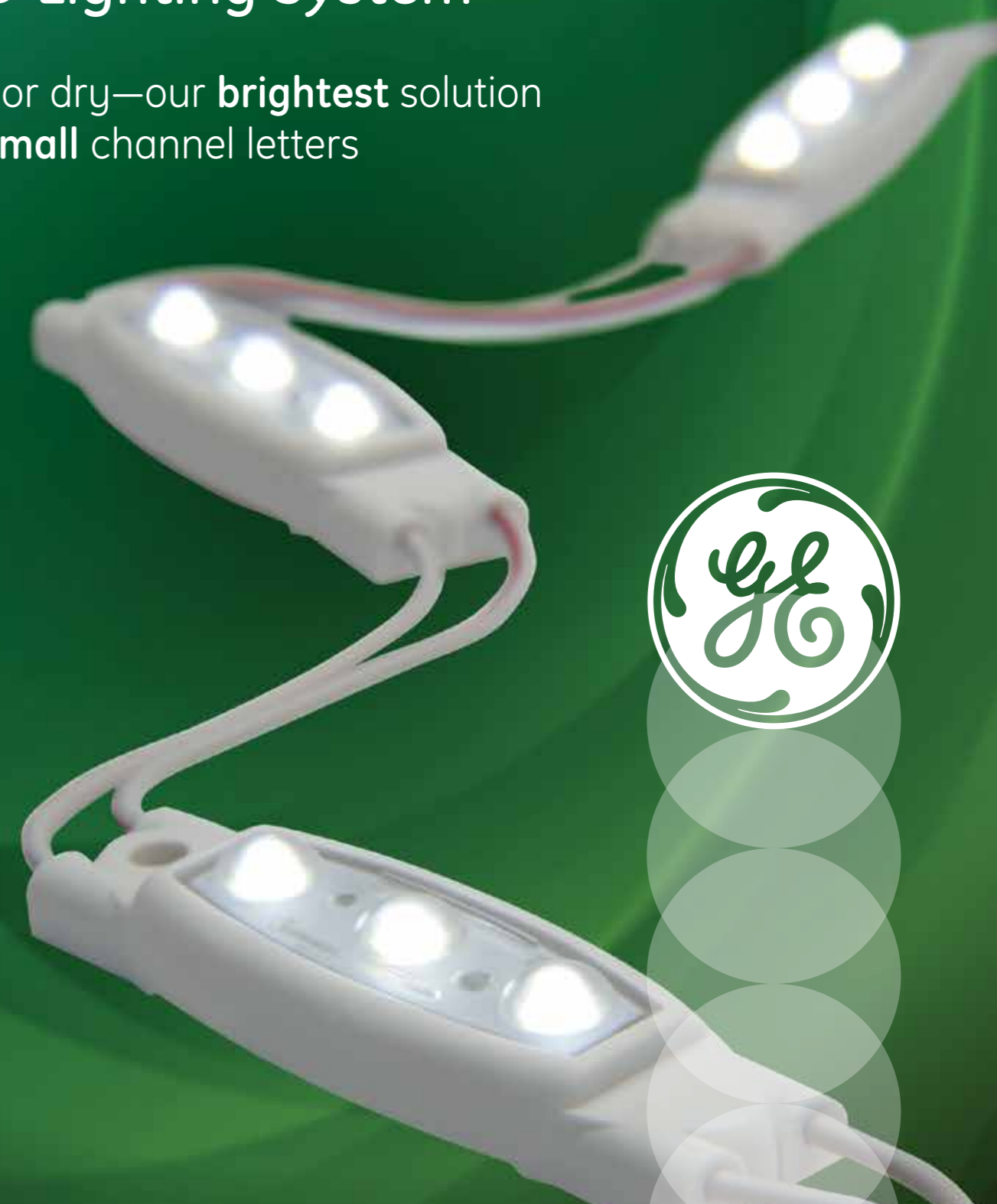
GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this brochure are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted. Tetra® miniMAX Data Sheet - October 2015



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# Tetra® miniMAX LED Lighting System

Wet or dry—our **brightest** solution for **small channel letters**

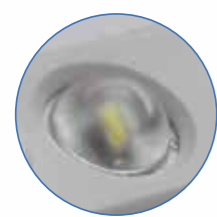


# Tetra® miniMAX

## Maximized Output. Minimized Expense.

**Tetra® miniMAX**—the remarkable LED system designed for small channel letters as shallow as 38 mm in depth—is now **10%** brighter than our previous product. It delivers incredibly uniform light, installs easily and operates efficiently. Working closely with sign builders and owners, we've refined our design to improve performance while decreasing the amount of product required, further reducing installation and material costs. Our system can now operate 20,60 metres of product per 60W power supply (up from 18,18 metres in our previous design) and deliver **13%** greater loading for even better material and installation labor savings.

**10% Brighter!**



### Powerful OptiLens™

**Tetra miniMAX** features **OptiLens™** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with impressive uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.

### New Tetra® miniMAX Wet Location Rated

**IP 68\* tested**

Now there's a miniMAX solution for **wet locations** where saturation with water or other liquids is likely. It's all the same performance features of miniMAX—plus overmolded design that protects against water ingress, dust and damage and a special module top surface to eliminate water retention—no separate enclosure is required.



\*5m / 60 min (not for continuous operation under water)



### Can cut product required almost in half

Many LED systems use about 13 LED modules in 2 rows to fill a capitol "T" channel letter that's 600 mm high.

Improved **Tetra miniMAX**, requires just 7 LED modules to fill the exact same letter (giving up some brightness) while providing outstanding uniformity. That's **46% fewer modules**.

**Use one row, not two.** **Tetra miniMAX** stretches stroke spacing to an impressive 178 mm in a 76 mm depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.

### Total GE Reliability

To ensure every **Tetra miniMAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.