



## APPLICATIONS

- Roadway lighting (Residential areas, overpasses, alleys...)
- Public areas lighting (Theme parks, squares, parking lots...)

## SPECIFICATION

<b>Input Voltage:</b>	100 ~ 277Vac
<b>Input Frequency:</b>	50 / 60Hz
<b>Power Factor(PF):</b>	0.95
<b>Surge Protection Level:</b>	10kV line-earth
<b>Operating Environment:</b>	-40°C~ +50°C, 10% ~ 90% RH
<b>Color Temperature (CCT)*:</b>	3000K, 4000K, 5000K, 5700K
<b>Color Rendering Index (CRI):</b>	≥70
<b>Housing:</b>	Aluminium Extrusion Alloy 6063
<b>IP Rating of LED Light Engine:</b>	IP68
<b>IP Rating of luminaries:</b>	IP67
<b>Warranty</b>	5 Years Limited

## FINISHING COLORS

	Silver
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## FEATURES

### Construction

- Aluminium extrusion alloy housing.
- Unique patented IP68 (highest protection level) LED light engines.
- Whole structure heating dissipation design with best thermal conduction and radiation.
- IP67 rated luminaire.

### Distribution

- Ergonomic and dedicated lighting distributions are available for various roadway applications.

## PHOTOS



## ORDERING INFORMATION

Example: T31A-2-100-M31A-BA-18-2105-7040-CM-MO-SR

Luminary Type		Module Qty.		System Power		Module Type		LED Package		Cable Standard		LED Qty. per module	
T	Street light	2	2 modules	80	80W	M31A	M31A module	B	5050	A	CCC+VDE	18	18pcs
31A	31A series	3	3 modules	100	100W			C	3030	C	PSE	28	28pcs
		4	4 modules		...					H	UL	63	63pcs
		5	5 modules	300	300W					X	OTHER		

Lens Code		CRI & CCT		Brand of LEDs		Driver Brand		Housing Colors			
1107	Type I Short	5323	Type I Short	7030	Ra≥70,3000K	LU	LUMILEDS	IN	INVENTRONICS	SR	Silver
2105	Type II Short	1324	Type II Short	7040	Ra≥70,4000K	LN	LUMINUS	MO	MOSO		
2128	Type II Short	2201	Type II Short	7050	Ra≥70,5000K	CM	CUSTOMIZATION	XX	OTHER		
2111	Type II Medium	2321	Type II Short	7057	Ra≥70,5700K	XX	OTHER				
3106	Type II Short	5321	Type II Short								
1113	Type III Short	1321	Type III Medium								
2109	Type III Medium										
2127	Type III Medium										
2040	Type V										
2114	Type V										
5050 LEDs		3030 LEDs									

## PERFORMANCE

Example: T31A-2-100-M31A-BA-18-2105-7040-CM-MO-SR

Model	Power (W)	5050 LEDs – 28pcs		5050 LEDs – 18pcs		3030 LEDs - 63pcs	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
T31A-2	80	175	14,000	165	13,200	140	11,200
	100	170	17,000	155	15,500	135	13,500
	120	163	19,560	145	17,400	127	15,240
T31A-3	120	175	21,000	165	19,800	140	16,800
	150	170	25,500	155	23,250	135	20,250
	180	163	29,340	145	26,100	127	22,860
T31A-4	160	175	28,000	165	26,400	140	22,400
	200	170	34,000	155	31,000	135	27,000
	240	163	39,120	145	34,800	127	30,480
T31A-5	200	175	35,000	165	33,000	140	28,000
	250	170	42,500	155	38,750	135	33,750
	300	163	48,900	145	43,500	127	38,100

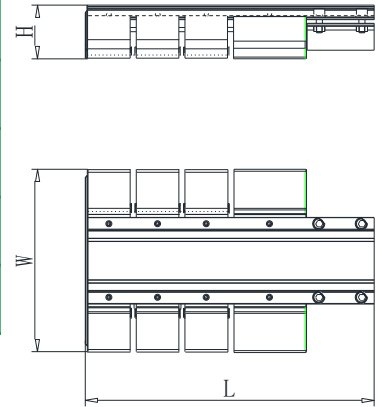
\*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

\*Values shown are subject to ±5%~±8% tolerance.

## DIMENSIONS

Example: T31A-2-100-M31A-BA-18-2105-7040-CM-MO-SR

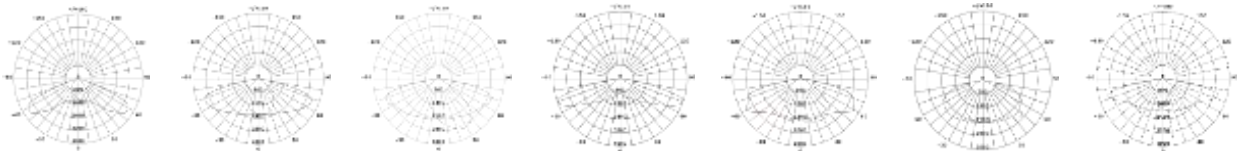
Model	L (mm)	W (mm)	H (mm)	Available Pole O.D. (mm)	Max. Installation Depth (mm)	N.W.* (kg)
T31A-2	395	300	90	Φ57~63	105~115	5.0
T31A-3	475	300	90	Φ57~63	105~115	5.8
T31A-4	555	300	90	Φ57~63	105~115	6.6
T31A-5	635	300	90	Φ57~63	105~115	7.6



\* Values shown are subject to ±5% tolerance.

## DISTRIBUTIONS

Example: T31A-2-100-M31A-BA-18-2105-7040-CM-MO-SR



5050  
LEDs

T1S1107

T2S2105

T2S2128

T2M2111

T2S3106

T3S1113

T3M2109

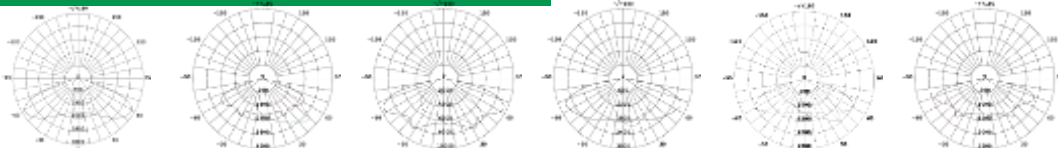


T3M2127

T5S2040

T5S2114

3030  
LEDs



T1S5323

T2S1324

T2S2201

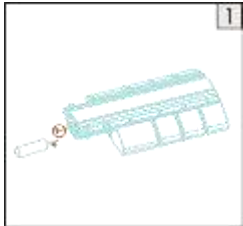
T2S2321

T2S5321

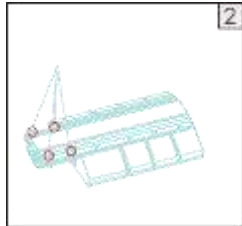
T3M1321

## INSTALLATION AND MAINTENANCE

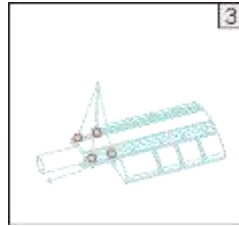
### INSTALLATION



1. Connect the wires to L, N, and G of AC power input. Make sure it grounded sufficiently.

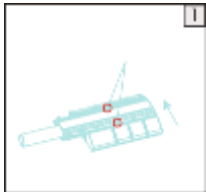


2. Loosen the four M10x45 hex mounting screws.

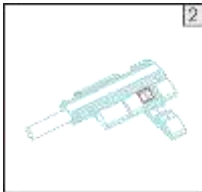


3. Mount the luminaire onto a pole. Tighten up the screws to fixate it.

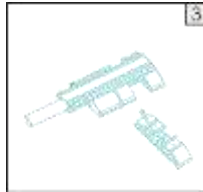
### MAINTENANCE



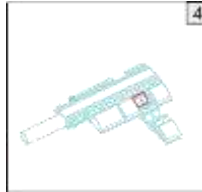
1. Undo the screws for the failed module. Slide it to the side in direction as the arrow points, and take it out.



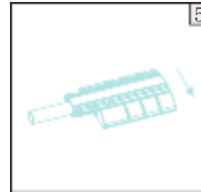
2. Disconnect its cable connectors.



3. Replace with a new module.



4. Connect the new module to the cable connector and tighten up.



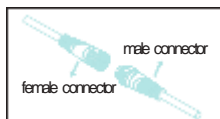
5. Draw the module in direction as the arrow points to hang on the beam at the groove.



6. Fix the module with screws.

### CABLE CONNECTORS

1. Connect the male and female connectors by aligning the indicative arrow on them.



2. Hold the nut on one terminal still, meanwhile, rotating clockwise till the one on the other terminals is tightened up. Otherwise the waterproof performance might be affected.



## WIRING

Power Supply End	Earth wire	Neutral wire	Live wire
Fixture End	Yellow-green lead	Blue lead	Brown lead
	Green lead	White lead	Black lead

## CAUTION

- a** For luminaires with glass cover: the cover is made of tempered glass which shatters into small pieces without sharp edges when it breaks. Application condition: -30°C~100°C; maximum temperature rise  $\Delta t 60^{\circ}\text{C}$ .
- b** Disconnect or turn off power before installation, maintenance and wiring.
- c** Cable connection must be insulated and waterproof.
- d** The light source of this luminaire is not replaceable. When the light source's lifetime comes to an end, it is the whole luminaire that should be replaced.

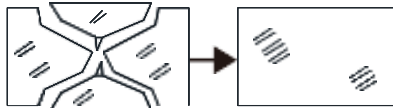
Warning: Danger! Electric shock risk!

(via IEC 60417-6042 (2011-11) )

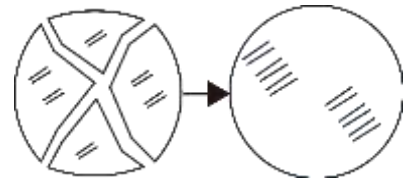


For luminaires with glass cover: The broken cover should be replaced.

Rectangle



Round



The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling

## REMARKS

1. This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint and elimination of tensile force there should be ensured.
2. This luminaire uses type Z attachment: the external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.
3. Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
4. The luminaire can be mounted onto ordinary combustible surfaces.