

T78

LED Roadway Light



Specifications

Input Voltage:	100 ~ 240Vac
Input Frequency:	50 / 60Hz
Power Supply Efficiency^[2]:	88%~92%
Power Factor (PF)^[3]:	0.95
Surge Protection Level:	≥10kV line-earth
Operating Environment:	-40~+50°C, 10~90% RH
Correlated Color Temperature (CCT):	3000K, 4000K, 5000K, 5700K
Color Rendering Index (CRI):	≥70
Main Housing:	Die-cast Aluminum
IP Rating of Luminaire:	IP66
IP Rating of Electrical Compartment:	IP66
IK Rating:	IK09

Applications

- Roadway lighting
(Urban roads, residential areas, overpasses...)
- Public areas lighting
(Theme parks, squares, parking lots...)

Note:

[1] After specialized treatment, the product can be used in coastal areas, high UV regions, and other unique environments.

[2] Power supply efficiency is a typical value and is subject to actual measurements.

[3] Power factor is a typical value and is subject to actual measurements.

Features

- Integrated die-cast construction with a high-quality electrostatic powder coating.^[1]
- High-strength structure, withstanding Beaufort 17 wind and IK09 impact.
- Tool-free access to electrical compartment. Simplified tool maintenance in light source compartment.
- Streamlined design enhances self-cleaning properties, minimizing dust accumulation.
- The light-emitting surface features tempered glass, enhancing protection and UV resistance for the light source.
- ZHAGA BOOK 15 standard lens with strong versatility and multiple light distribution options.
- Equipped with horizontal or vertical adapters, with precision tilt adjustment to maintain optimal lighting orientation.
- Optional NEMA receptacle for expanding various control functions to enhance lighting quality.

Finishing Colors



Ordering Information

Example: T78S03P030-BA-36-9900-7040-HP-MO-GY

Luminary Type	System Power	LEDs Type	Cable Type	Qty. of LEDs per module
T78S03 T78S06 T78M10 T78L15 T78L20	P030 30W P060 60W P100 100W P150 150W P200 200W	B 5050 C 3030	A CCC+VDE H UL X OTHER	36 36 pcs 54 54 pcs 72 72 pcs ... 384 384 pcs
Lens Code	CRI & CCT	Brand of LEDs	Driver Brand	Housing Color
9900 T2S 9600 T2M 9601 T3M ...	7030 Ra≥70, 3000K 7040 Ra≥70, 4000K 7050 Ra≥70, 5000K 7057 Ra≥70, 5700K	LU LUMILEDS HP HPWINNER XX OTHER	MO MOSO PH PHILIPS IN INVENTRONICS XX OTHER	BK Black WH White GY Gray

Note: Refer to Appendix 1 for detailed lighting distributions.

Performance

Model	Power (W)	5050 LEDs			3030 LEDs		
		Qty. of LEDs (pcs)	Efficacy (lm/W)	Lumens (lm)	Qty. of LEDs (pcs)	Efficacy (lm/W)	Lumens (lm)
T78S03	30	36	160	4800	96	150	4500
	50		155	7750		140	7000
	60		150	9000		135	8100
T78S06	40	54	160	6400	144	150	6000
	60		160	9600		145	8700
	90		155	13950		140	12600
T78M10	80	72	165	13200	192	150	12000
	100		165	16500		150	15000
	110		160	17600		145	15950
T78L15	100	108	170	17000	288	155	15500
	120		170	20400		155	18600
	150		165	24750		150	22500
T78L20	150	144	170	25500	384	155	23250
	180		165	29700		150	27000
	200		165	33000		150	30000

Note:

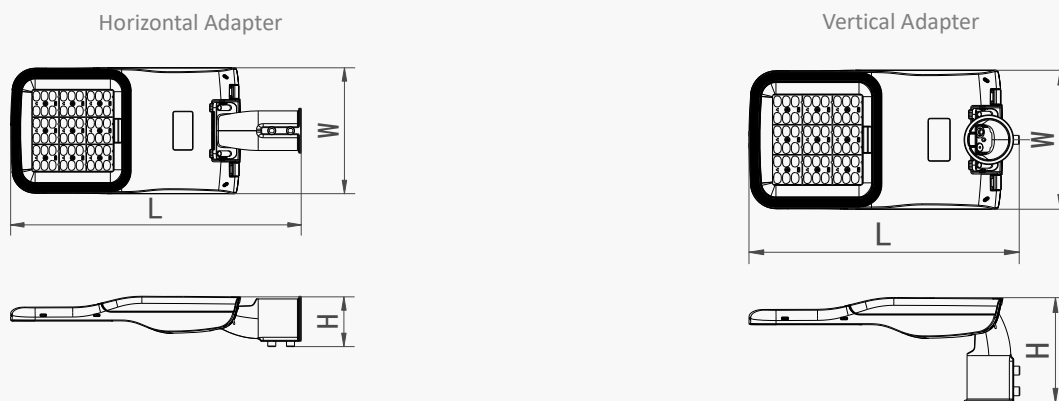
The above parameters are typical values, values shown are subject to $\pm 5\% \sim \pm 8\%$ tolerance.

Luminous efficacy of 3000K is 5% lower than other CCTs.

Dimensions

Model	Dimensions - Horizontal Adapter (L×W×H (mm))	Dimensions - Vertical Adapter (L×W×H (mm))	N.W. (kg)
T78S03	510×185×80	415×185×180	3.2
T78S06	545×235×80	450×235×180	3.7
T78M10	595×235×80	500×235×180	4.3
T78L15	695×235×80	600×235×180	5.0
T78L20	750×290×80	655×290×180	6.1

Note: The above parameters are typical values, values shown are subject to $\pm 5\% \sim \pm 8\%$ tolerance.



Packing Information

Model	Packing Dimensions (L×W×H (mm))	Qty. per Carton	G.W. (kg)
T78S03	550×250×260	2	7.4
T78S06	580×300×260	2	8.9
T78M10	630×300×260	2	9.9
T78L15	730×300×260	2	11.5
T78L20	770×340×155	1	7.2

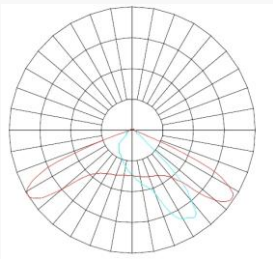
Note: The above parameters are typical values, values shown are subject to $\pm 5\% \sim \pm 8\%$ tolerance.

Adjustable Adapter

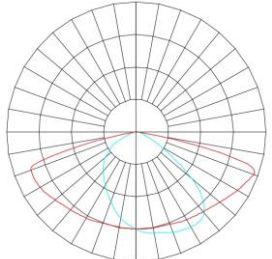
Model	Available Pole O.D. (mm)	Available Depth for Installation (mm)	Adjustable Range
T78S03	$\Phi 60 \pm 3$	≥ 80	5° increments per step, -15° ~ +15°
T78S06			
T78M10			
T78L15			
T78L20			

Appendix 1: Light Distribution Curves

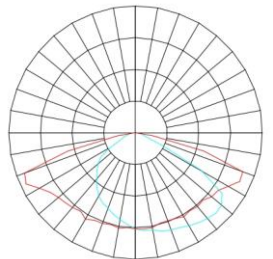
5050 LEDs



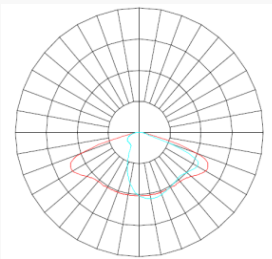
9900(T2S)



9600(T2M)

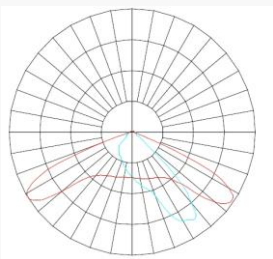


9601(T3M)

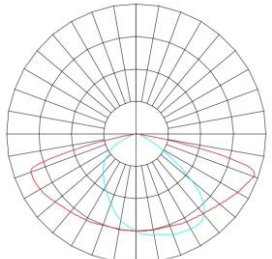


9700(T4S)

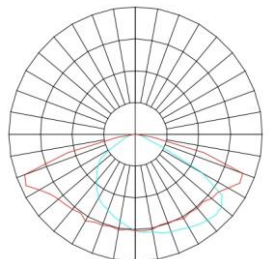
3030 LEDs



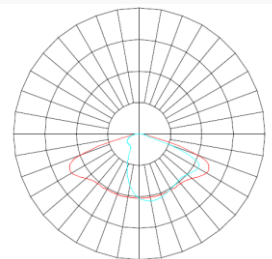
9702(T1S)



9602(T2M)



9603(T3M)



9701(T4S)

Appendix 2: NEMA Accessories



3-Pin Receptacle	5-Pin Receptacle	7-Pin Receptacle
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Photocell	Shorting Cap
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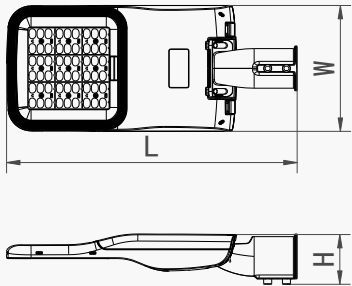
Note:
The NEMA interface complies with the requirements of ANSI C136.41 and ANSI C136.10 standards.
The above image is for reference only. The actual accessories shall be subject to the configuration and specifications agreed upon by both parties.

Product Dimensions Compatible with NEMA Accessories

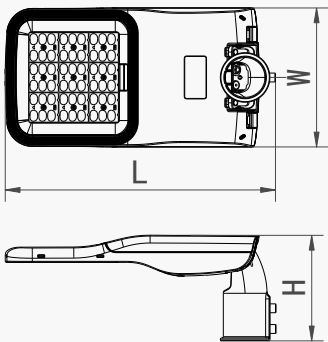
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Note:
The above parameters are typical values, values shown are subject to ±5%~±8% tolerance.
The dimensions do not include various NEMA accessories exemplified in Appendix 2.

Horizontal Adapter



Vertical Adapter



Example of Product Appearance Compatible with NEMA Accessories



The data in the product specifications on the pages may be subject to change.
Please contact your dedicated account manager for the latest product details.

Aug. 2025