LED Shoebox/Area Light

TL-SAL1™ SERIES

DESCRIPTION
State-of-the-art design luminaire for parking lots & security lighting. Corrosion resistant with Type II, III, IV, & V Optics options. 100% Mercury & Lead Free.
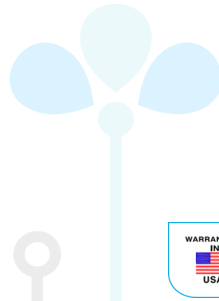
APPLICATIONS
Ideal for lighting general outdoor, wet location and commercial area lighting. Replaces Metal Halide for superior energy efficiency and slim aesthetics.

QUICK SHIP:
TL-SAL1-60W-40	TL-SAL1-60W-50
TL-SAL1-100W-40	TL-SAL1-100W-50
TL-SAL1-150W-40	TL-SAL1-150W-50
TL-SAL1-200W-40	TL-SAL1-200W-50
TL-SAL1-300W-40	TL-SAL1-300W-50

Specification Features

WARRANTIED IN USA | 5 Years | IP65 | DIMMABLE 1-10V | DLC PREMIUM | FC | UL

Controls / Dimming
High quality isolated driver; 0-10V dimming; Flicker free. Industry leading optics with a standard Type 3 or Optional: Type 2, Type 4, & Type 5.

Warranty
5 Years Limited Warranty. 10 Years available. See warranty documentation for

Certification
It complies with UL & cUL certification, safe and reliable. IP65 Rated.

Installation / Mounting
Luminaire is easy to Surface Mount install. Beam angle is 120º. Instant start w/NO humming.

Ordering Information

Example: TL-SAL1-150W-50K-V-SFM

TL-	SAL1	150W-	50K-	[Blank]	[Blank]	V
Brand	**Series**	**Nominal Wattage**		**Color Temp**	**Diffuser Type**	**Optics Light Angle**	**Dimmable**
TL TechnoLED	**SAL1** Shoebox / Area Light Fixture	**100W** 100 Watt	**150W** 150 Watt	**200W** 200 Watt	**300W** 300 Watt	40K 4000K	50K 5000K	**C** Clear	**[Blank]** Type 3	**T2** Type 2	**T4** Type 4	**T5** Type 5	**V** Non- Dimmable	**D** 0-10V Dimmable	**DALI** Dali Dimmable

Brand	Series	Nominal Wattage		Color Temp		Diffuser Type	Optics Light Angle		Dimmable	
TL TechnoLED	**SAL1** Shoebox / Area Light Fixture	**100W**	100 Watt	40K	4000K	**C** Clear	**[Blank]**	Type 3	**V**	Non- Dimmable
		150W	150 Watt	50K	5000K		**T2**	Type 2	**D**	0-10V Dimmable
		200W	200 Watt				**T4**	Type 4	**DALI**	Dali Dimmable
		300W	300 Watt				**T5**	Type 5		

[Blank]
Controls/Mounting/Options

APM	Adjustable Square Pole Mount
SPM	Square Pole Mount
SFM	Slip-Fitter Mount
YKM	Yoke Mount
PC	Dusk Till Dawn Photocell
480V	AC347-480V Driver

Lighting Parameters

| Input Voltage	AC100-277V
CCT	4000K / 5000K
CRI	Ra>70
Luminous efficacy	140lm/w
PF	0.90
Driver Efficiency	87%
THD	20%
Working temperature	-4°F~104°F
Storage temperature	-22°F~140°F
IP Rating	IP65 Rated

Product Features

- Highly energy efficient - up to 140lm/w
- Up to 70% energy savings compared to HID or Metal Halide
- Slim, state-of-the-art, low profile design maximizes wind resistance
- IP65 rated, suitable for Wet Locations
  Modern and durable design 5 Years warranty. 10 Years available.
- 1-10V dimmable available
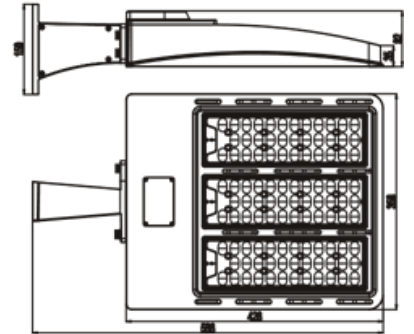- Photocell sensor available

Dimensions, Mounting Options/Controls
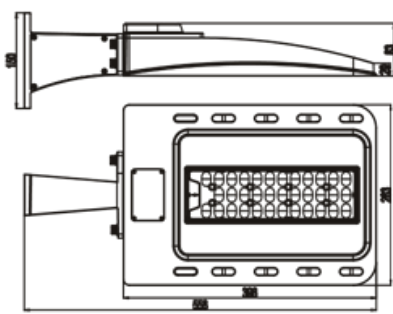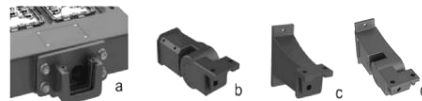
60W/100W/120W/150W
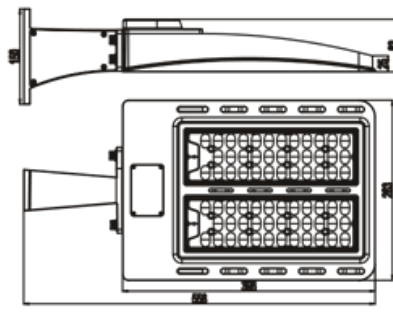
200W

250W / 300W

Square Pole Mount

Slip fitter Mount
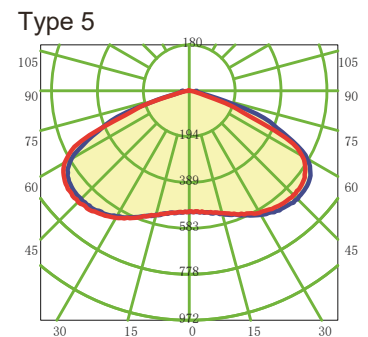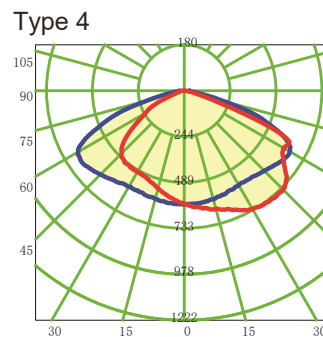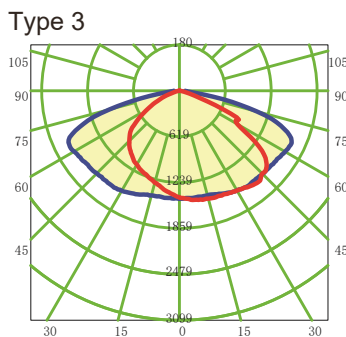
York Mount

Round Pole Mount

Photocell

Short circuit CAP

Quick Install (a+b, a+c, or a+d)

Part Number	L	W	H
TL-SAL1-100W	22.95"	11.14"	5.90"
TL-SAL1-150W	22.95"	11.14"	5.90"
TL-SAL1-150W-480V	22.95"	11.14"	5.90"
TL-SAL1-200W	22.95"	11.14"	5.90"
TL-SAL1-200W-480V	22.95"	11.14"	5.90"
TL-SAL1-300W	24.13"	14.09"	5.90"
TL-SAL1-300W-480V	24.13"	14.09"	5.90"

Light distribution curve data

Type 2

Type 3

Type 4

Type 5
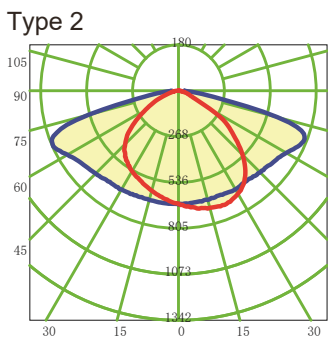
Exploded Description

Optional photocell daylight sensor to further increase potential power savings

Continuous industrial great silicone gasket to seal the driver lid

This is one of the mounting brackets with service opening for cable connection. A lit and a continuous industrial great silicone gasket is used to seal the compartment

Custom-made label plate

Highly transparent lenses available with several different beam angles

Massive aluminum die-cast housing with cooling fins on top to disperse the heat

Internal power driver fully encased and well protected

Industrial great cooling paste to assure a perfect connection between the PCBs and the housing

Aluminum PCB's containing the EMC3030 LED chips

Continuous industrial great silicone gasket to seal the PCB's

|			
Operating frequency	47-63HZ	Available light colors	Warm white; Natural white; daylight white
Type of current	AC100~277V	Available color temperatures	3000K;4000K;5000K;6000K
Power factor λ	>0.9	Available fixture finish	Dark bronze, White
Efficiency in %	>92%	Standard deviation of color matching	<3
Start time (0.2s / 0.5s / …)	0.1S	UGR (Unified Glare Rating)	<27
Warm-up time to 60 % (1.5s / 2s / …)	0.5S	Available beam angles	Type 2/Type 3/Type 4/Type 5

Packing Information

| Model	Outer Carton Size (L×W×H)	Qty/Carton (pcs)	N.W./Ctn. (lbs)	G.W./Ctn. (lbs)
TL-SAL1-100W / 150W / 150W-480V	25.59" x 13.77" x 7.48"	1 pcs.	12.2 lbs.	19.0 lbs.
TL-SAL1-200W / 200W-480V	25.59" x 13.77" x 7.48"	1 pcs.	15.0 lbs.	21.7 lbs.
TL-SAL1-300W / 300W-480V	26.77" x 16.92" x 7.48"	1 pcs.	21.2 lbs.	30.5 lbs.

Product Information

Model	Description	Watt	Lumens	Voltage	THD	PF	Equivalent Wattage	DLC® Product ID
TL-SAL1-100W-40-V	Area / Shoebox light	100	12,949	120-277	≤12.4%	>0.9	200W-250W	PLS469XV3B5K
TL-SAL1-100W-50-V	Area / Shoebox light	100	13,295	120-277	≤12.4%	>0.9	200W-250W	PLV521EDZ1OD
TL-SAL1-150W-40-V	Area / Shoebox light	150	18,068	120-277	≤13.6%	>0.9	400W-450W	PL7I4DLWFLDH
TL-SAL1-150W-50-V	Area / Shoebox light	150	18,521	120-277	≤13.6%	>0.9	400W-450W	PLBY8R2WV6SA
TL-SAL1-150W-40-480V	Area / Shoebox light	150	18,068	347-480	≤13.6%	>0.9	400W-450W	Pending
TL-SAL1-150W-50-480V	Area / Shoebox light	150	18,521	347-480	≤13.6%	>0.9	400W-450W	Pending
TL-SAL1-200W-40-V	Area / Shoebox light	200	25,824	120-277	≤14.2%	>0.9	450W-600W	PLK9RO3A2KI8
TL-SAL1-200W-40-480V	Area / Shoebox light	200	25,824	347-480	≤14.2%	>0.9	450W-600W	Pending
TL-SAL1-200W-50-V	Area / Shoebox light	200	27,610	120-277	≤14.2%	>0.9	450W-600W	PL1756LZKTPH
TL-SAL1-200W-50-480V	Area / Shoebox light	200	27,610	347-480	≤14.2%	>0.9	450W-600W	Pending
TL-SAL1-300W-40-V	Area / Shoebox light	300	38,258	120-277	≤13.9%	>0.9	600W-1000W	PLIKNL5OPVSQ
TL-SAL1-300W-40-480V	Area / Shoebox light	300	38,258	347-480	≤13.9%	>0.9	600W-1000W	Pending
TL-SAL1-300W-50-V	Area / Shoebox light	300	39,748	120-277	≤13.9%	>0.9	600W-1000W	PLJ0E9YQH9YS
TL-SAL1-300W-50-480V	Area / Shoebox light	300	39,748	347-480	≤13.9%	>0.9	600W-1000W	Pending

Pole Mounting Installation Instructions
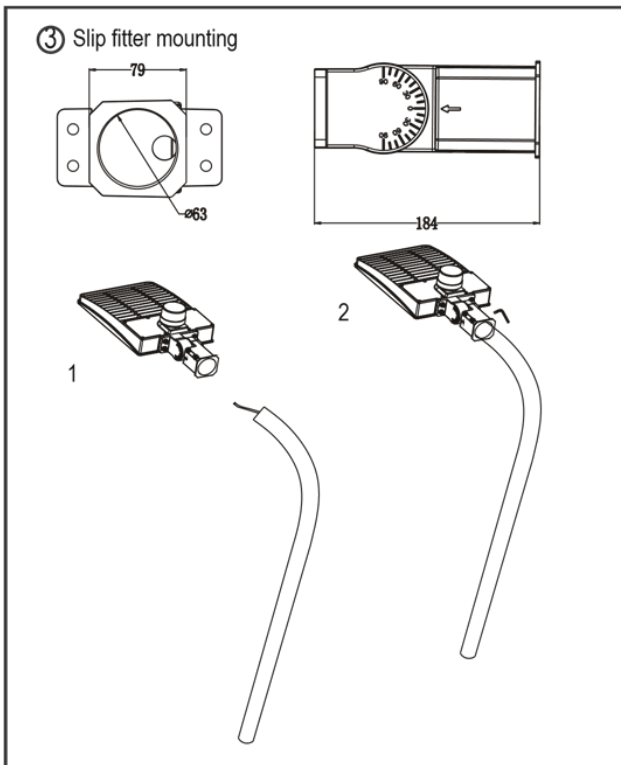
① Arm mounting for square pole
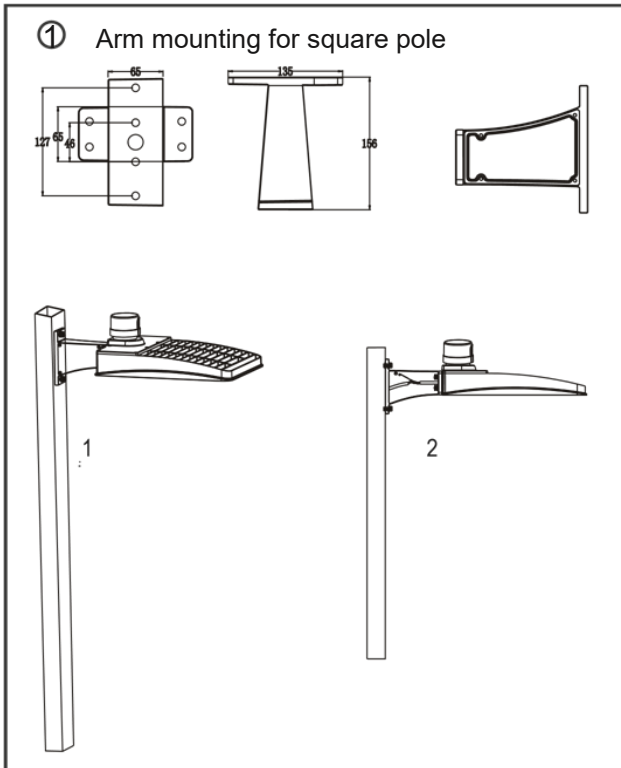
1) Drill holes in the square pole corresponding to the holes on the mounting arm, at the position you want to install the fixture. Use bolds and nuts to tightly fix the fixture to the pole.
2) Bring in the power line through the middle hole into the mounting arm and connect the wires. Close the compartment by using the silicon gasket and the cover plate.

② Trunnion mounting
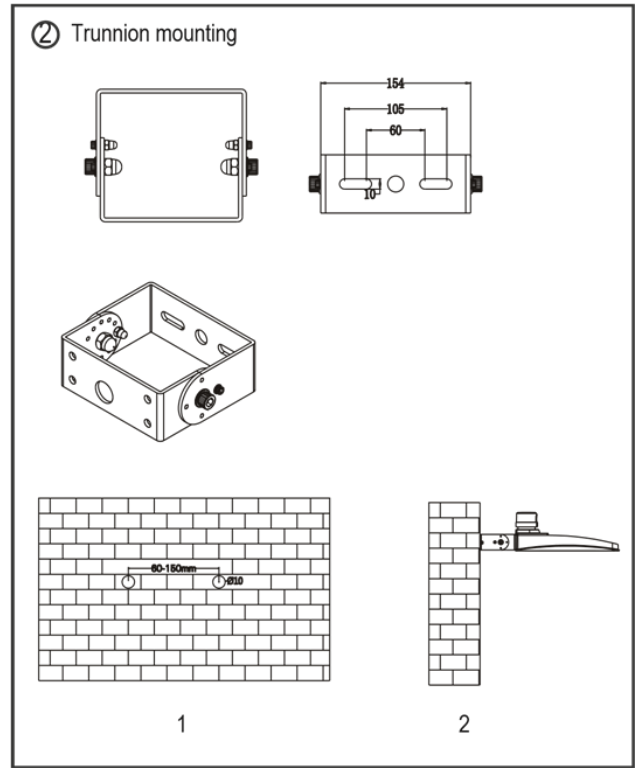
1) Drill two holes in the wall corresponding to the holes in the mounting bracket, at the position you want to install the fixture. Use expansion screws and nuts to fix the fixture tightly to the wall.
2) Use the adjustment screw at the side of the bracket to adjust the installation angel. Afterwards connect the power line.

③ Slip fitter mounting

1) Connect the power line and fit the fixture on the pole.
2) Tighten the screws at the side of the mounting arm to secure the fixture

④ Arm mounting for round pole
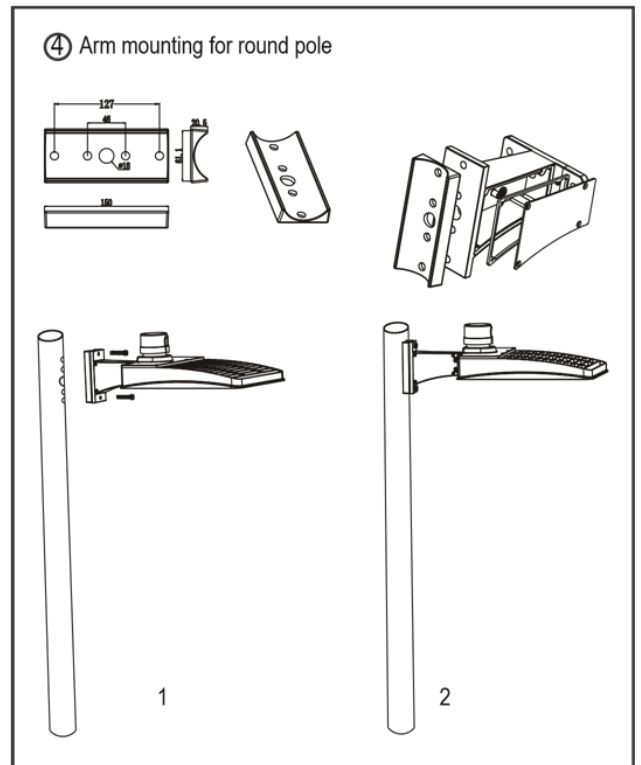
1) Drill holes in the round pole corresponding to the holes on the mounting arm, at the position you want to install the fixture. Use bolds and nuts to tightly fix the fixture to the pole with the adapter piece in-between.
2) Bring in the power line through the middle hole into the mounting arm and connect the wires. Close the compartment by using the silicon gasket and the cover plate.

Quick Installation Instruction

① Arm mounting for square pole

② Slip fitter mounting
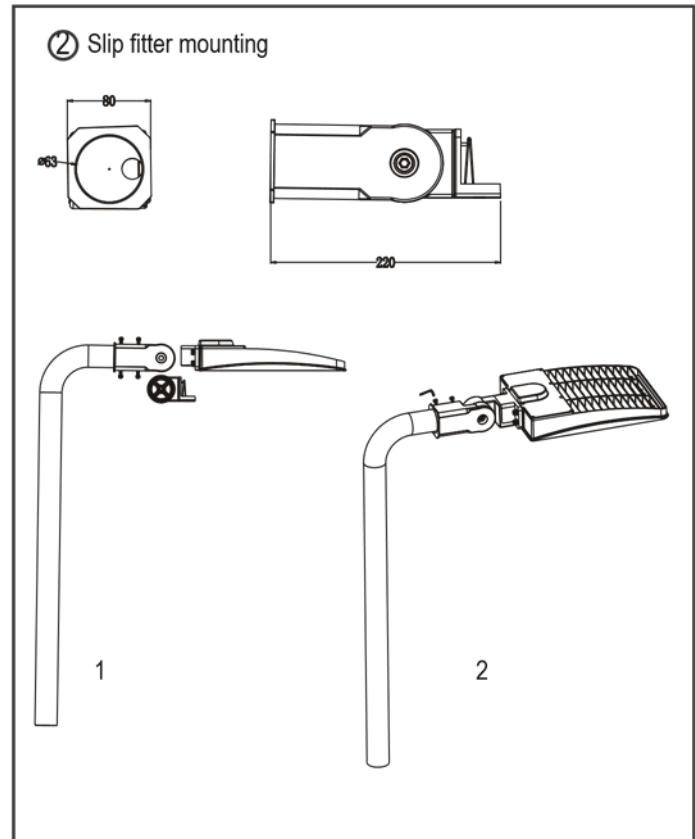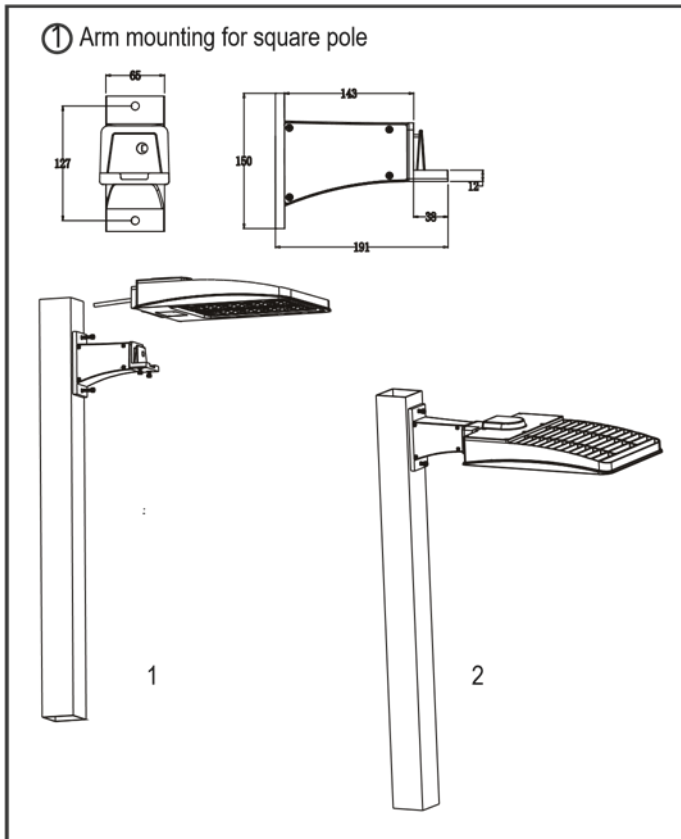
Application and safety notes

- Carefully read and follow all warnings and instructions before installing or servicing the luminaire.

- The installation should be done by an individual familiar with the construction and operation of the luminaire.

- The installation of this luminaire must be in accordance with national and local building and electrical codes.

- The product must not be damaged or operated in a damaged condition.

- This luminaire must be directly wired on line. Any ballast or other power device previously used with the   replaced luminaire must be removed.

- Between the luminaire and any possibly flammable material must be an appropriate safety space (at least 20cm).
  The luminaire must not be covered with heat insulating materials.
  Always provide proper ventilation around the luminaire and do not exceed the maximum ambient temperature. ·Compared to traditional lights the characteristic light distribution of this LED luminaire may differ. In order to be sure to meet your lighting requirements a photometric check of the installation is recommended.

Maintenance

To avoid injuries, disconnect power to the light and allow the unit to cool down before performing maintenance.

! Warning: No user serviceable parts inside. Risk of electric shock. Removal of the lens will void the warranty.

- Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on an annual basis. Frequency of use and environment should determine this.

- The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.

- Inspect the cooling surfaces and fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.