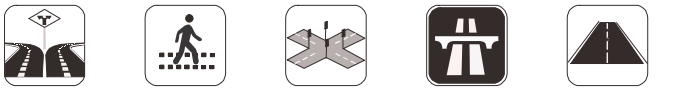
LED Streetlights Series IV(EL-ST4CM)

E-Lover Street Light Series IV state of the art design with low light decay, high color rendering index PHILIP/OSRAM LED chip(50000hours lifespan) source light and high quality low weight aluminum alloy housing fill in a high brightness and long lifespan street light. Its innovative modular design and adjustable angle makes a perfect solution for multiple street lighting applications with minimum revamping cost.

Applications:



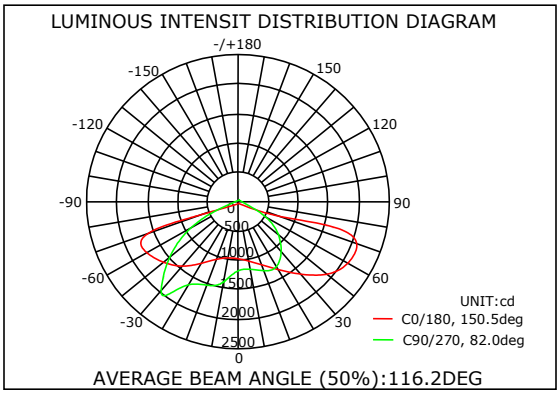
PRODUCT FEATURES

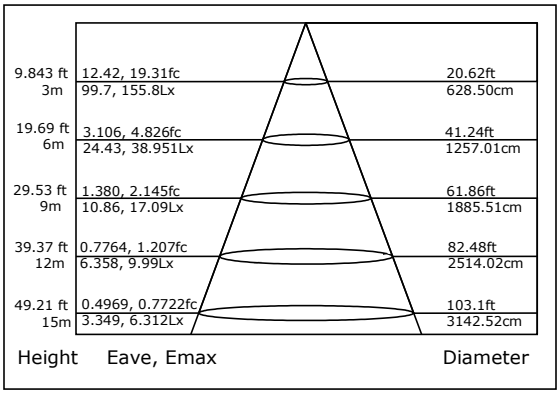
- State of the art design. Adopt the modern aesthetic streamline design, compact in structure and nice in appearance.
- High color rendering index PHILIPS SMD Chips LED chips(50000hours lifespan) source light with high-quality.
- Lightweight Aluminum alloy housing. Reliable aluminum alloy corrugated-fin composition, increasing the cooling area at utmost, reducing the light weight a lot. Modular lamp design which allows increasing or decreasing the illumination needs.
- Power factor≥0.9. Adopt high-quality-high-efficiency constant current Meanwell driver(50000hours lifespan), to ensure the product's stability, also to reduce the power consumption greatly.
- Low temperatures. Long lifespan more than 50000hours.
- 5 years warranty, IP65 for waterproof.
- No mercury and lead. No UV. No infrared. No radiation. Without causing any flickering, helpful to protect the eyes.
- CE (TUV) for EMC and LVD approved and RoHS compliant.

ILLUMINANCE DIAGRAM

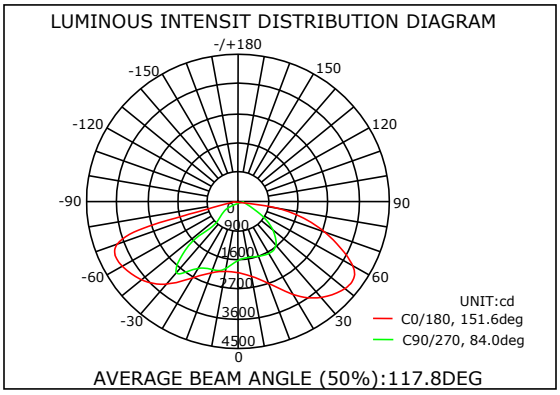
Product Illuminance:

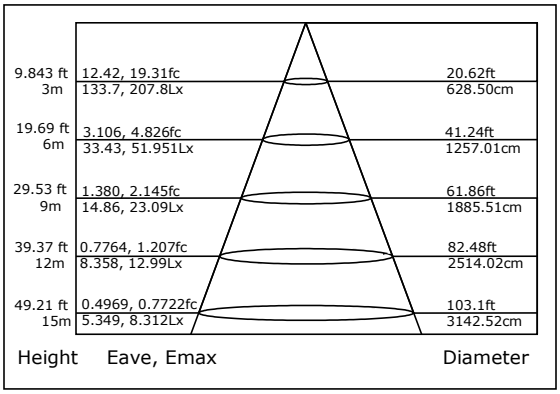
60 Watts



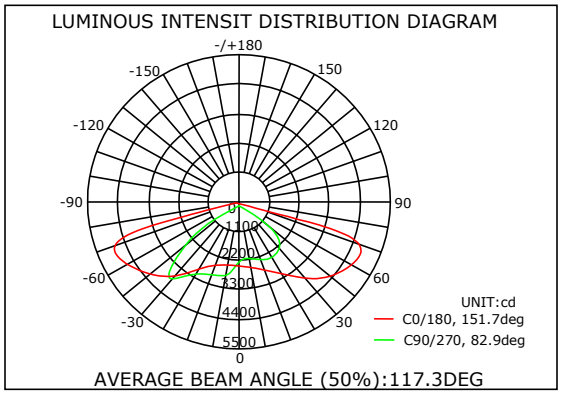


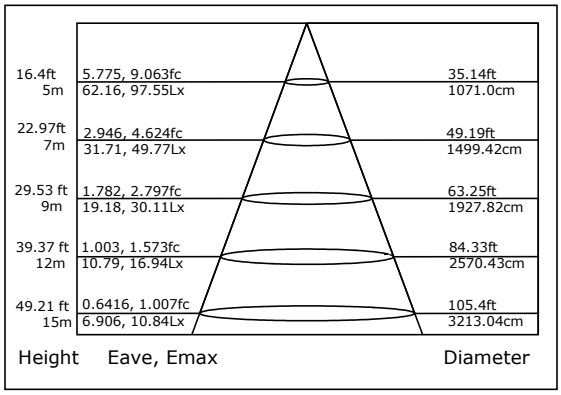
120 Watts



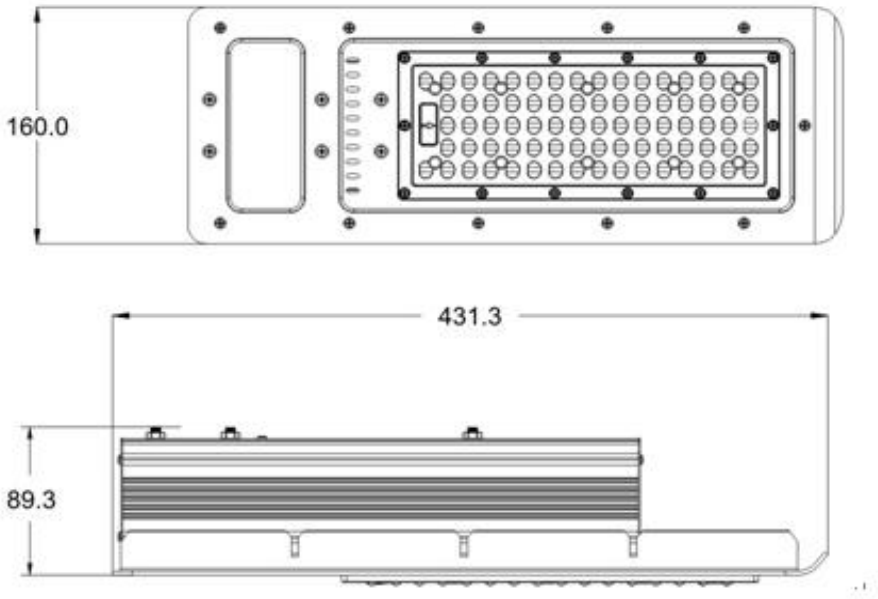


150 Watts





PRODUCT DIAGRAM



Part number	L [mm]	W [mm]	H [mm]
EL-ST4CM-30W	365.8	135	84.4
EL-ST4CM-40W	365.8	135	89.3
EL-ST4CM-60W	431.3	160	89.3
EL-ST4CM-90W	431.3	160	89.3
EL-ST4CM-120W	631.7	215	89.8
EL-ST4CM-150W	631.7	215	89.8

TECHNICAL DATA

Electrical characteristics:

Part number	Operating Voltage [V]	Frequency [Hz]	Power [W]	Traditional equivalent [W]	Power Factor [%]	Dimmable [Y/N]	Pole Height [m]	Pole Distance [m]
EL-ST4CM-30W	Ac90~305	50 / 60	30	60	≥0.9	optional	8	20
EL-ST4CM-40W	Ac90~305	50 / 60	40	80	≥0.9	optional	8	20
EL-ST4CM-60W	Ac90~305	50 / 60	60	120	≥0.9	optional	8	20
EL-ST4CM-90W	Ac90~305	50 / 60	90	180	≥0.9	optional	8	20
EL-ST4CM-120W	Ac90~305	50 / 60	120	240	≥0.9	optional	10	30
EL-ST4CM-150W	Ac90~305	50 / 60	150	300	≥0.9	optional	12	30

Note 1: Absolute ratings @ 25°C.
Note 2: 30W, 60W 90W for residential street, 1 line road, and Pedestrian walk pad.
Note 3: 120W for 2 to 4 Lines collector road
Note 4: 150W for Main Street, 4 lines Collector Street
Note 5: 180W for Main Street, 4 lines Collector Street
Note 6: 210W for Motorway, 5 Lines main streets
Note 7: Operating temperature -25~+45, Storage temperature -30~+70 , Relative humidity 10-95%, Atmosphere Pressure 70-106KPa.

TECHNICAL DATA

Optical Characteristics:

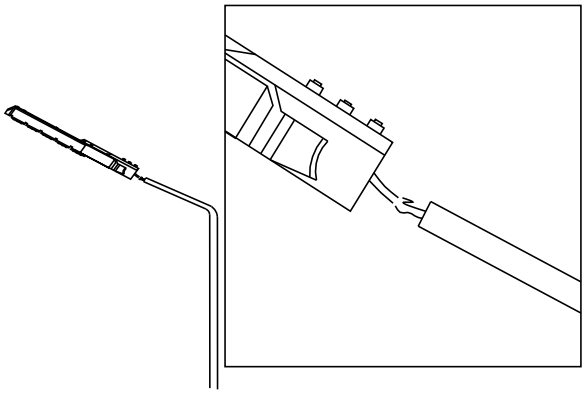
Part number	Color	Color Temperature [°K]	Luminescence [lm]	Lumen Efficiency [lm/w]	CRI (Ra)	Beam angle [°]
EL-ST4CM30W-CW	Cold White	6000	3300lm	110	70	145*75°
EL-ST4CM30W-NW	Nature White	4000	3150lm	105	70	145*75°
EL-ST4CM30W-WW	Warm White	3000	3000lm	100	70	145*75°
EL-ST4CM40W-CW	Cold White	6000	4400lm	110	70	145*75°
EL-ST4CM40W-NW	Nature White	4000	4200lm	105	70	145*75°
EL-ST4CM40W-WW	Warm White	3000	4000lm	100	70	145*75°
EL-ST4CM60W-CW	Cold White	6000	6600lm	110	70	145*75°
EL-ST4CM60W-NW	Nature White	4000	6300lm	105	70	145*75°
EL-ST4CM60W-WW	Warm White	3000	6000lm	100	70	145*75°
EL-ST4CM90W-CW	Cold White	6000	9900lm	110	70	145*75°
EL-ST4CM90W-NW	Nature White	4000	9450lm	105	70	145*75°
EL-ST4CM90W-WW	Warm White	3000	9000lm	100	70	145*75°
EL-ST4CM120W-CW	Cold White	6000	13200lm	110	70	145*75°
EL-ST4CM120W-NW	Nature White	4000	12600lm	105	70	145*75°
EL-ST4CM120W-WW	Warm White	3000	12000lm	100	70	145*75°
EL-ST4CM150W-CW	Cold White	6000	16500lm	110	70	145*75°
EL-ST4CM150W-NW	Nature White	4000	15750lm	105	70	145*75°
EL-ST4CM150W-WW	Warm White	3000	15000lm	100	70	145*75°

Note1: Absolute ratings @ 25°C.
Note2: Tolerance of measurement of luminous intensity±15%.

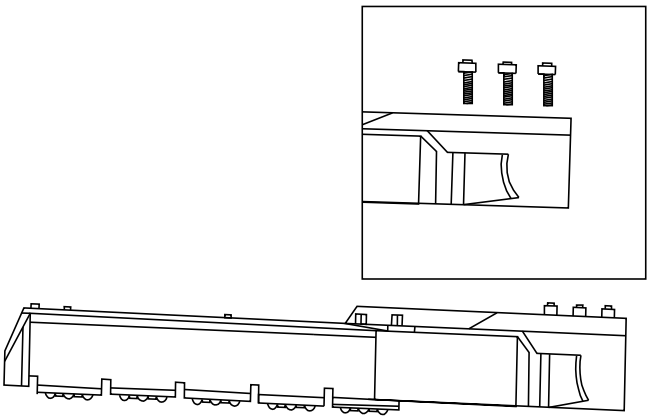
PRODUCT INSTALLATION:

Precaution: Switch off power before doing any works.

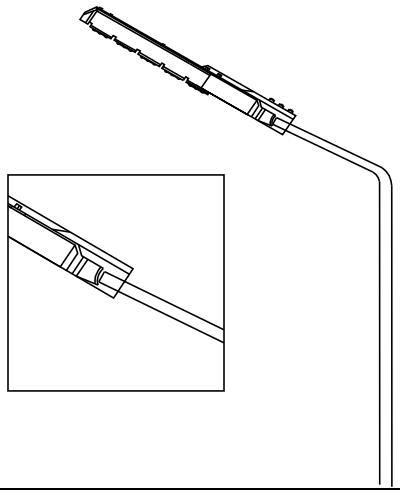
Step 1: Correctly connect three core input cable with the main cable from the light pole, and make sure its waterproof.



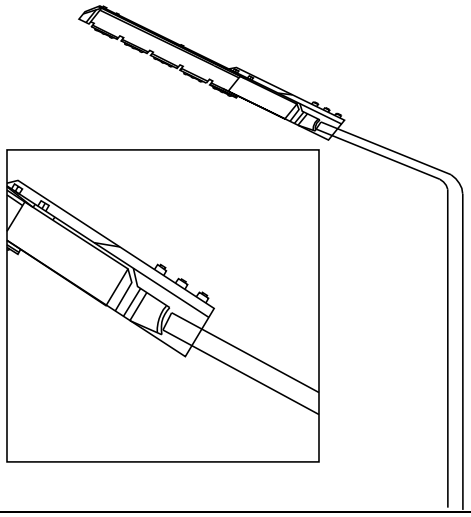
Step 2: Remove screws and nut from lamp installation parts.



Step 3: Insert lamp pole into the lamp installation hole.



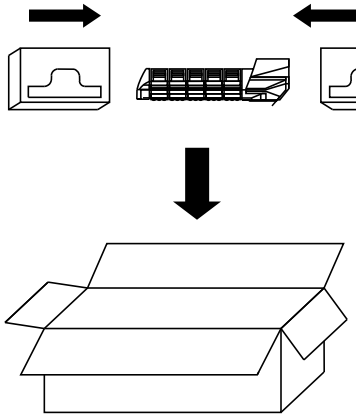
Step 4: Tightly lock the screw and nut of the lamp installation parts.



SAFETY

1. **Always** consult a qualified, licensed electrician prior to the installation of this product.
2. **Always** ensure that all components are joined properly before they are installed.
3. It is recommended that adequate airflow and heat sink be taken into account in the application and installation of this product. Improper thermal management may lead to premature failure.
4. If any doubt about the installation or use of this product, consult a competent electrician.
5. Exceeding the operating temperature values may damage LED chips by reducing the total lamp life and lumen output, and inversely impact color consistency.
6. Switch off power of the mains supply or respectively of the connection lead before doing any works.
7. Avoid voltage drops by using a dedicated line for each maximum power consumption line.
8. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions. As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, make sure the load is between 50% and 80% of the total capacity of the power supply.
9. LED products are continuously being improved upon in ever-shortening manufacturing cycles. LED color temperature (kelvin), lumen output, and product appearance can change from order to order. Please note that variation in color temperature (kelvin) is commonly +/- 250k and brightness (lumens) is +/- 10%.

PACKING:



PACKING:

Part Number	Outer Carton Size(L×W×H)[mm]	Qty/Carton [pcs]	Gross Weight [Kg]	Unit Weight [Kg]
EL-ST4CM-30W	415*190*145	1	2.35	2.25
EL-ST4CM-40W	415*190*145	1	2.4	2.29
EL-ST4CM-60W	475*215*145	1	2.67	2.55
EL-ST4CM-90W	475*215*145	1	4.16	4.04
EL-ST4CM-120W	685*270*145	1	4.28	4.16
EL-ST4CM-150W	685*270*145	1	5.9	5.77

OTHER E-Lover PRODUCTS:

For more information about E-Lover products, please visit our website

www.szelover.com

DISCLAIMER:

E-Lover reserves the right to modify the design of our products as part of the company's program of continuous improvement. E-Lover cannot guarantee to match existing installed product for subsequent orders or replace the product exactly to match the product you are replacing in product appearance, color, or brightness. Specifications are subject to change without notice.