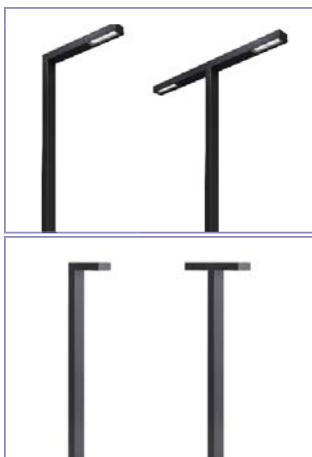




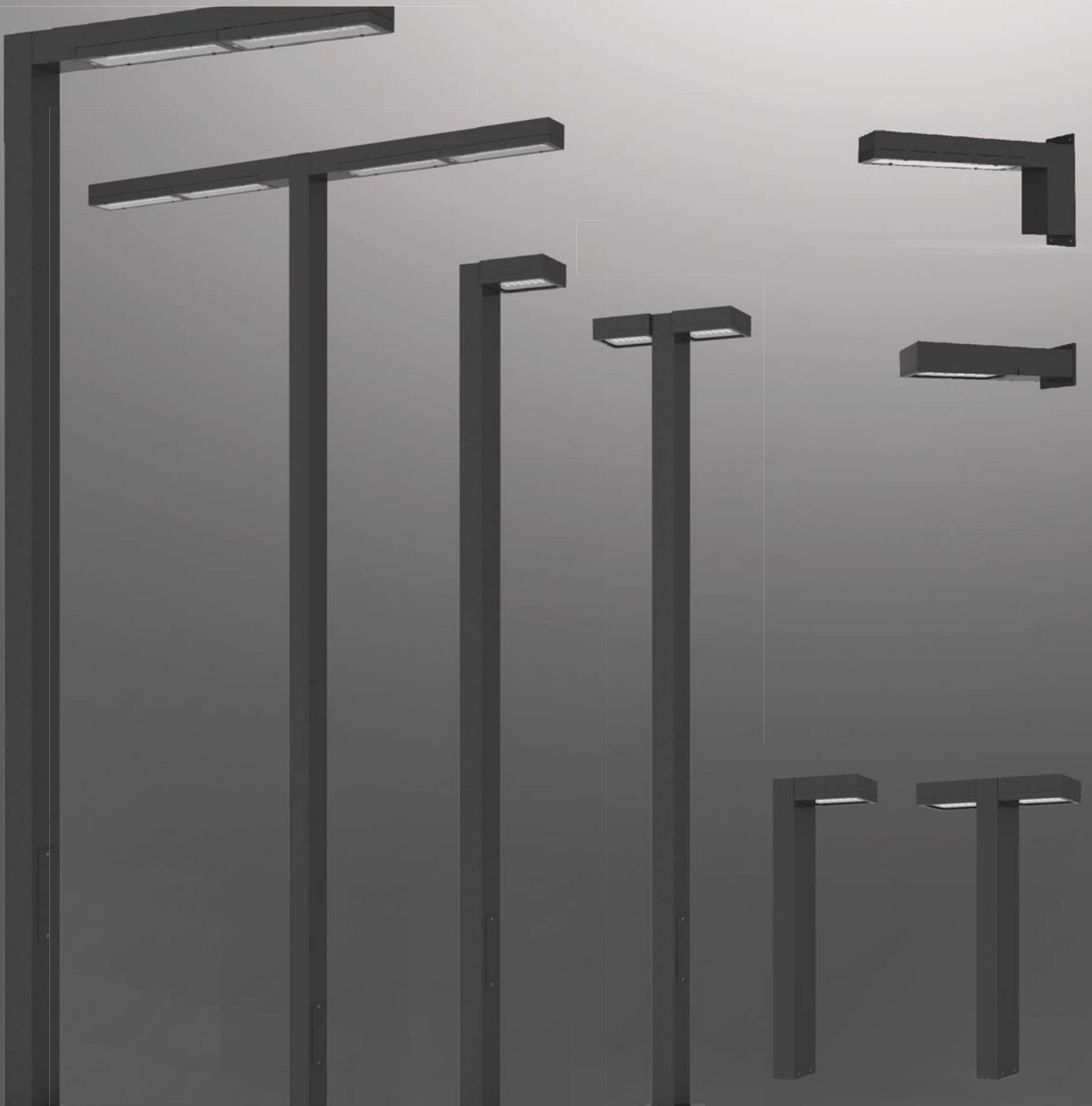
Light Linear PT Catalog



Professional Lighting Solutions

Light Linear PT Family

Area lighting luminaires





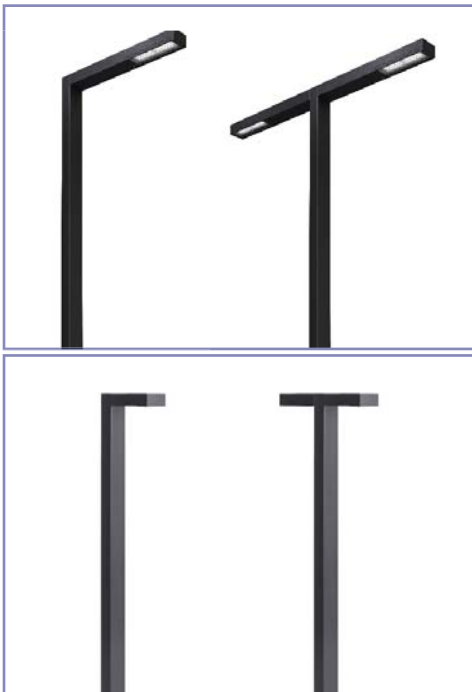
Light Linear PT LED area lighting luminaire

LIGMAN'S Light Linear PT range of contemporary outdoor lighting fixtures utilizes an industry leading LED light module to provide high performance with multiple low glare lighting distributions for all design requirements. This product is designed not only to be aesthetically pleasing, but to also be an economic alternative to conventional HPS or Metal Halide sources. Industry leading optical technology ensures that only the targeted areas are illuminated, reducing unwanted light trespass and uplight. The Light Linear PT family complies to Dark Sky requirements.

Additionally, the Light Linear PT offering is available in post top, bollard and wall mount versions that provides designers with four matching families of products to ensure design uniformity throughout the project.

The Light Linear series is designed with a rectangular, minimalistic look that is sleek and modern. High corrosion resistant poles are coated with a UV stabilized polyester powder coat that is applied after undergoing a two-stage zinc & nickel phosphate coating process. A durable injected molded silicone gasket, clear tempered vandal resistant glass lens with decorative trim and 316 stainless steel hardware is used to ensure ruggedness while maintaining a modern classic outlook without compromising performance and reliability.

Post Top



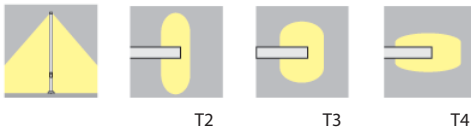
Bollard



Wall Mount



- Complies with Dark Sky requirements
- IP65 housing with integrated die-cast heatsinks
- Frameless vandal resistant glass with decorative trim
- Type II, III, IV distributions with field changeable optics
- Optional integrated lighting controls
- Die-cast aluminum base covers
- Pre-wired for easy installation
- Customization options for specific project requirements



Light Linear PT 3 single head 50w type II distribution

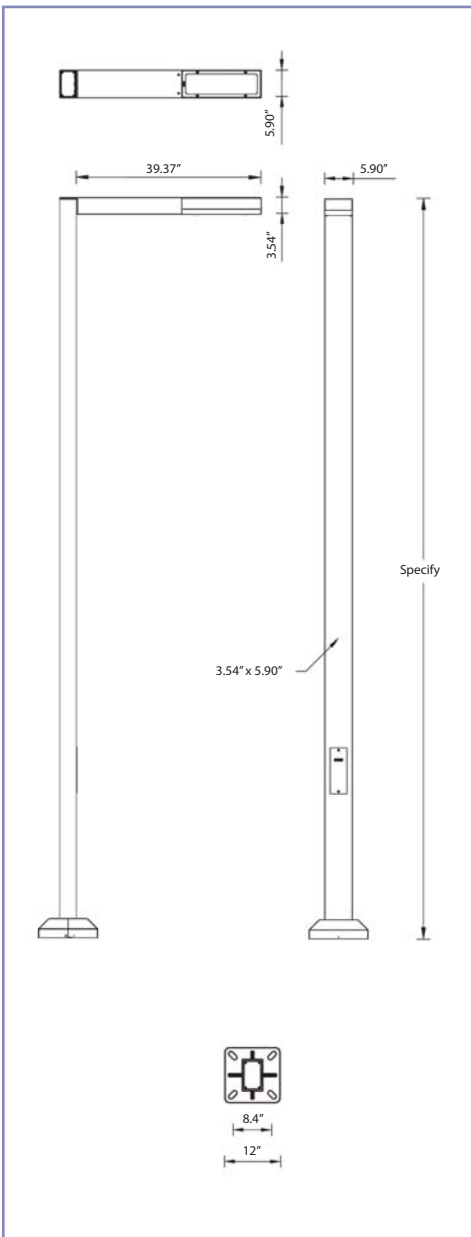
Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21171	24 LED	4696 lm	3000K	50	65 lbs
ULI-21171	24 LED	5354 lm	4000K	50	65 lbs
ULI-21171	24 LED	5354 lm	5000K	50	65 lbs

Light Linear PT 3 single head 50w type III distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21191	24 LED	4696 lm	3000K	50	65 lbs
ULI-21191	24 LED	5354 lm	4000K	50	65 lbs
ULI-21191	24 LED	5354 lm	5000K	50	65 lbs

Light Linear PT 3 single head 50w type IV distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21211	24 LED	4696 lm	3000K	50	65 lbs
ULI-21211	24 LED	5354 lm	4000K	50	65 lbs
ULI-21211	24 LED	5354 lm	5000K	50	65 lbs



Light Linear PT 4 single head 134w type II distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21291	48 LED	14500 lm	3000K	134	69.5 lbs
ULI-21291	48 LED	17136 lm	4000K	134	69.5 lbs
ULI-21291	48 LED	17136 lm	5000K	134	69.5 lbs

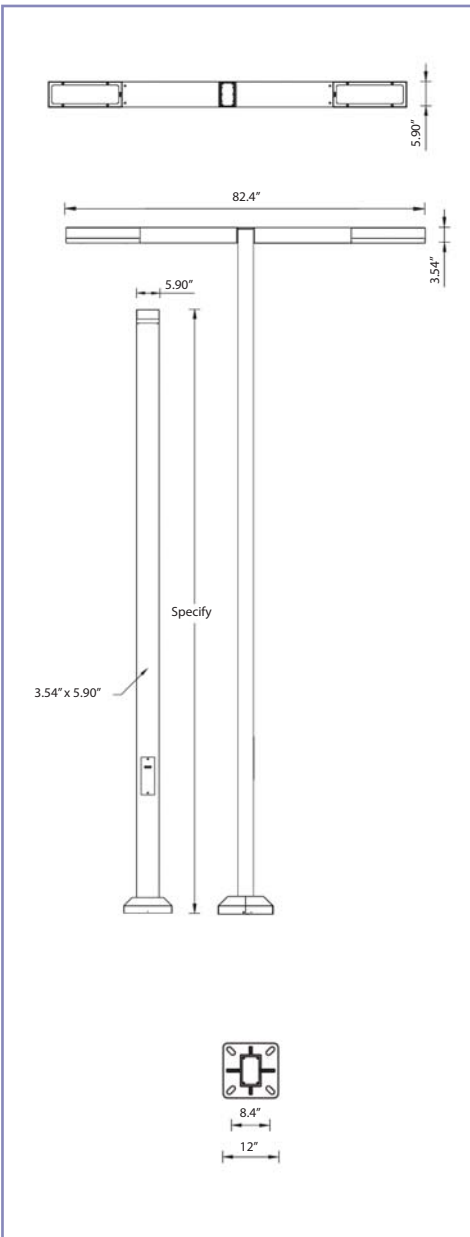
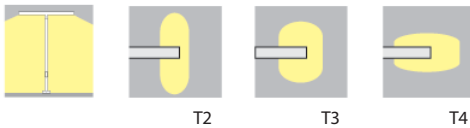
Light Linear PT 4 single head 134w type III distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21301	48 LED	14500 lm	3000K	134	69.5 lbs
ULI-21301	48 LED	17136 lm	4000K	134	69.5 lbs
ULI-21301	48 LED	17136 lm	5000K	134	69.5 lbs

Light Linear PT 4 single head 134w type IV distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21311	48 LED	14500 lm	3000K	134	69.5 lbs
ULI-21311	48 LED	17136 lm	4000K	134	69.5 lbs
ULI-21311	48 LED	17136 lm	5000K	134	69.5 lbs

Options - HSS - House side shield
F - Frosted lens



Light Linear PT 5 double head 2x50w type II distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21181	2x24 LED	2x4696 lm	3000K	2x50	81 lbs
ULI-21181	2x24 LED	2x5354 lm	4000K	2x50	81 lbs
ULI-21181	2x24 LED	2x5354 lm	5000K	2x50	81 lbs

Light Linear PT 5 double head 2x50w type III distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21201	2x24 LED	2x4696 lm	3000K	2x50	81 lbs
ULI-21201	2x24 LED	2x5354 lm	4000K	2x50	81 lbs
ULI-21201	2x24 LED	2x5354 lm	5000K	2x50	81 lbs

Light Linear PT 5 double head 2x50w type IV distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21221	2x24 LED	2x4696 lm	3000K	2x50	81 lbs
ULI-21221	2x24 LED	2x5354 lm	4000K	2x50	81 lbs
ULI-21221	2x24 LED	2x5354 lm	5000K	2x50	81 lbs

Light Linear PT 6 double head 2x134w type II distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21321	2x48 LED	2x14500 lm	3000K	2x134	90 lbs
ULI-21321	2x48 LED	2x17136 lm	4000K	2x134	90 lbs
ULI-21321	2x48 LED	2x17136 lm	5000K	2x134	90 lbs

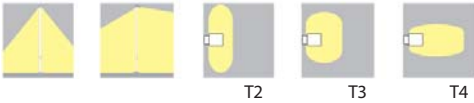
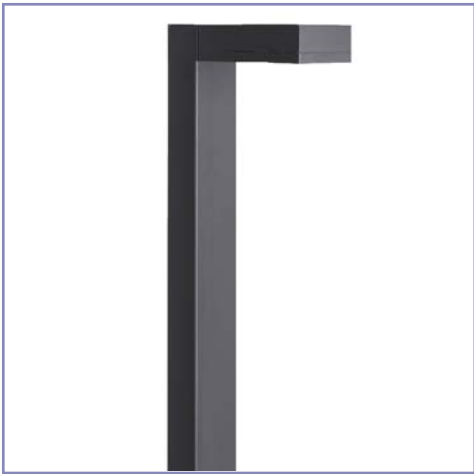
Light Linear PT 6 double head 2x134w type III distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21331	2x48 LED	2x14500 lm	3000K	2x134	90 lbs
ULI-21331	2x48 LED	2x17136 lm	4000K	2x134	90 lbs
ULI-21331	2x48 LED	2x17136 lm	5000K	2x134	90 lbs

Light Linear PT 6 double head 2x134w type IV distribution

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21341	2x48 LED	2x14500 lm	3000K	2x134	90 lbs
ULI-21341	2x48 LED	2x17136 lm	4000K	2x134	90 lbs
ULI-21341	2x48 LED	2x17136 lm	5000K	2x134	90 lbs

Options - HSS - House side shield
F - Frosted lens



Light Linear PT 7 single head 25w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21231	12 LED	2350 lm	3000K	25	51.8 lbs
ULI-21231	12 LED	2677 lm	4000K	25	51.8 lbs
ULI-21231	12 LED	2677 lm	5000K	25	51.8 lbs

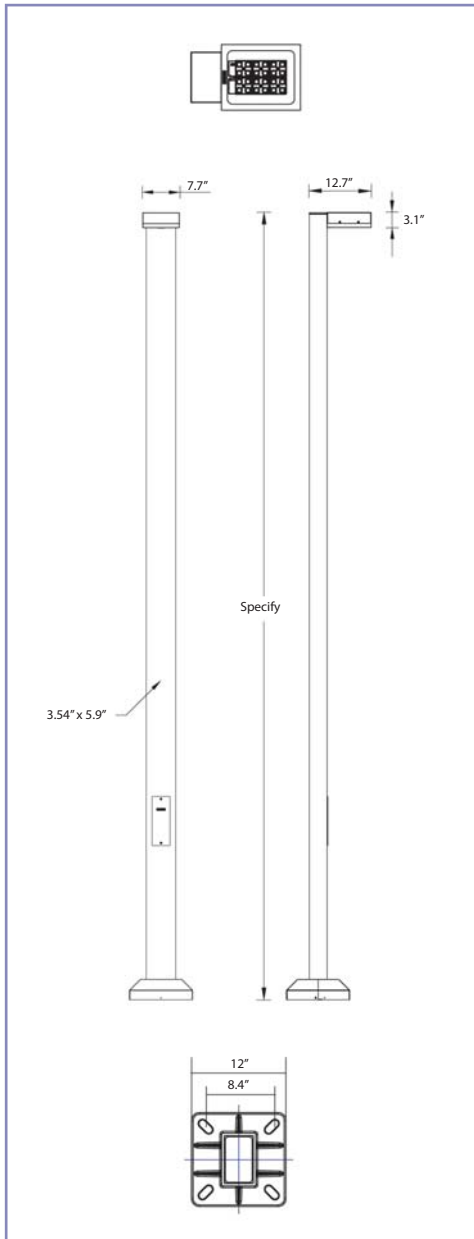
Light Linear PT 8 single head 50w

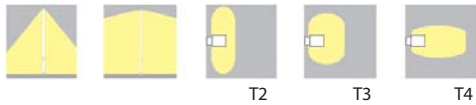
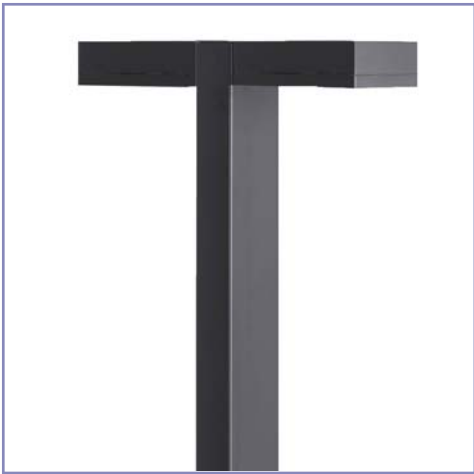
Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21241	24 LED	4696 lm	3000K	50	52.5 lbs
ULI-21241	24 LED	5354 lm	4000K	50	52.5 lbs
ULI-21241	24 LED	5354 lm	5000K	50	52.5 lbs

Options - Type II, III, IV distributions

HSS - House side shield

F - Frosted lens





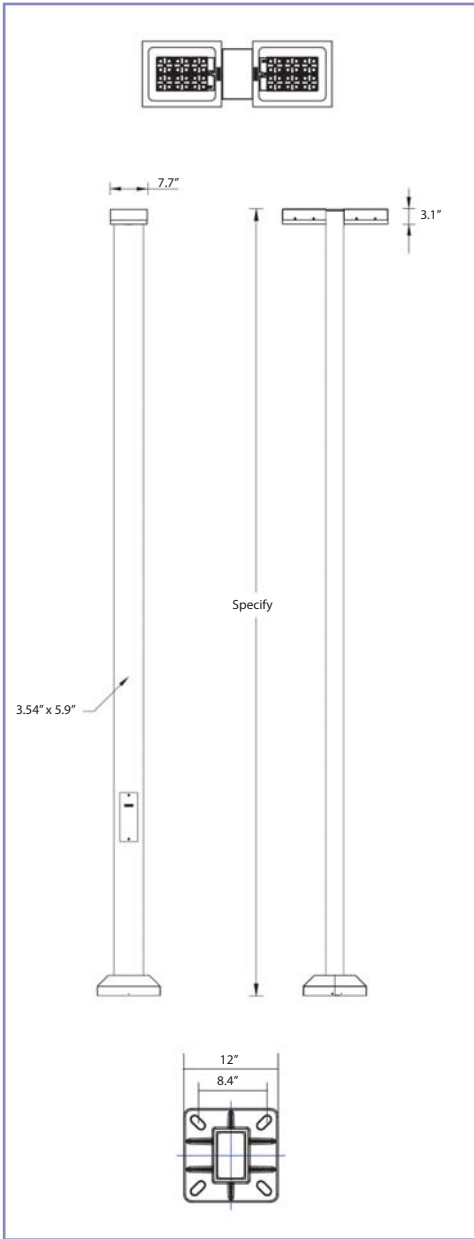
Light Linear PT 9 double head 2x25w

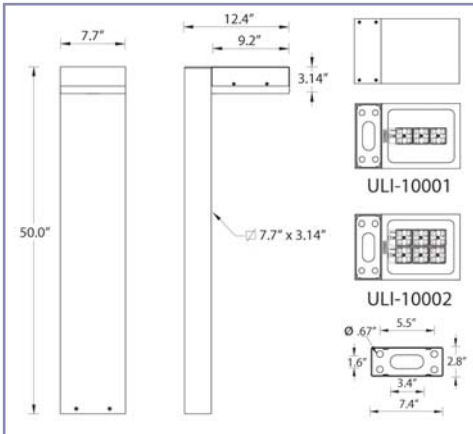
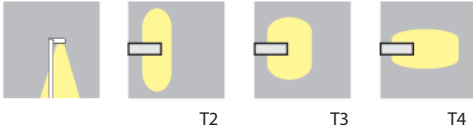
Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21251	2x12 LED	2x2350 lm	3000K	2x25	58.4 lbs
ULI-21251	2x12 LED	2x2677 lm	4000K	2x25	58.4 lbs
ULI-21251	2x12 LED	2x2677 lm	5000K	2x25	58.4 lbs

Light Linear PT 10 double head 2x50w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-21261	2x24 LED	2x4696 lm	3000K	2x50	59 lbs
ULI-21261	2x24 LED	2x5354 lm	4000K	2x50	59 lbs
ULI-21261	2x24 LED	2x5354 lm	5000K	2x50	59 lbs

Options - Type II, III, IV distributions
HSS - House side shield
F - Frosted lens





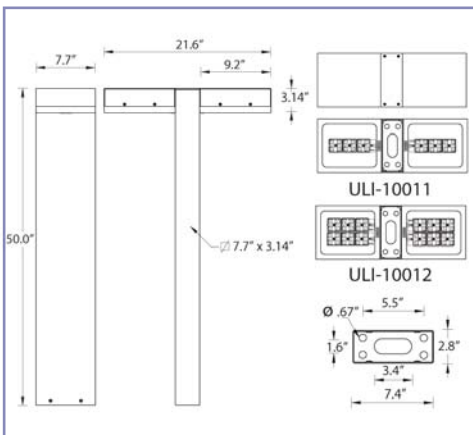
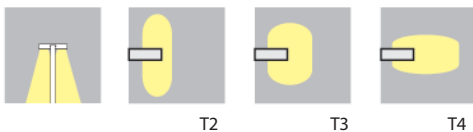
Light Linear PT 1 single head bollard 25w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-10001	12 LED	2350 lm	2700K	25	18 lbs
ULI-10001	12 LED	2350 lm	3000K	25	18 lbs
ULI-10001	12 LED	2677 lm	4000K	25	18 lbs

Light Linear PT 1 single head bollard 50w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-10002	24 LED	4696 lm	2700K	50	18.7 lbs
ULI-10002	24 LED	4696 lm	3000K	50	18.7 lbs
ULI-10002	24 LED	5354 lm	4000K	50	18.7 lbs

Options - Type II, III, IV distributions
F- Frosted lens



Light Linear PT 2 double head bollard 2x25w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-10011	2x12 LED	2x2350 lm	2700K	2x25	24.7 lbs
ULI-10011	2x12 LED	2x2350 lm	3000K	2x25	24.7 lbs
ULI-10011	2x12 LED	2x2677 lm	4000K	2x25	24.7 lbs

Light Linear PT 2 double head bollard 2x50w

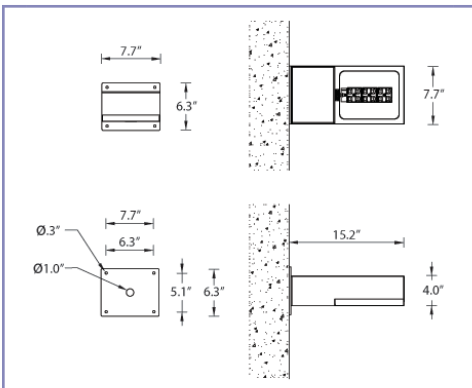
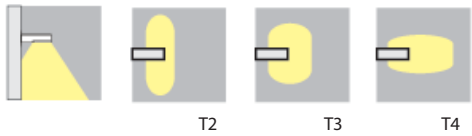
Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-10012	2x24 LED	2x4696 lm	2700K	2x50	25.7 lbs
ULI-10012	2x24 LED	2x4696 lm	3000K	2x50	25.7 lbs
ULI-10012	2x24 LED	2x5354 lm	4000K	2x50	25.7 lbs

Options - Type II, III, IV distributions
F- Frosted lens



Light Linear PT 11 surface 25w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-30001	12 LED	2348 lm	2700K	25	8.6 lbs
ULI-30001	12 LED	2348 lm	3000K	25	8.6 lbs
ULI-30001	12 LED	2677 lm	4000K	25	8.6 lbs



Light Linear PT 11 surface 35w

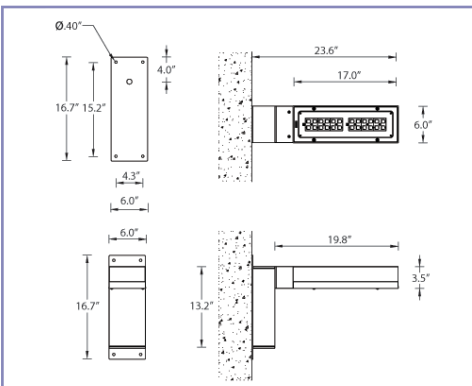
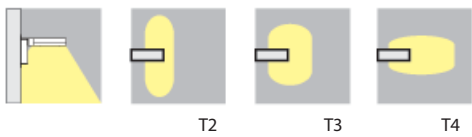
Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-30002	24 LED	3528 lm	2700K	35	9.3 lbs
ULI-30002	24 LED	3528 lm	3000K	35	9.3 lbs
ULI-30002	24 LED	4023 lm	4000K	35	9.3 lbs

Options - Type II, III, IV distributions
F- Frosted lens



Light Linear PT 12 surface 35w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-30011	24 LED	3528 lm	2700K	35	16.9 lbs
ULI-30011	24 LED	3528 lm	3000K	35	16.9 lbs
ULI-30011	24 LED	4023 lm	4000K	35	16.9 lbs



Light Linear PT 12 surface 50w

Model No	Lamp	Light Output	LED Color	Power W	Weight
ULI-30012	24 LED	4696 lm	2700K	50	16.9 lbs
ULI-30012	24 LED	4696 lm	3000K	50	16.9 lbs
ULI-30012	24 LED	5354 lm	4000K	50	16.9 lbs

Options - Type II, III, IV distributions
F- Frosted lens

Materials

Luminaire

Ligman Light Linear PT luminaires are manufactured from low copper content LM6 high pressure die-cast aluminum with integrated fin heatsinks that are concealed by a decorative cowl. This IP65 housing is sealed with one-piece high temperature injection molded silicone gaskets. The field replaceable high power LEDs and optics are enclosed with a frameless tempered vandal resistant glass with screened decorative trim. This is secured to the housing with stainless steel 316 screws. The power cord is secured with a stainless steel cable gland to prevent water ingress to preserve the integrity of the luminaire.

The Luminaire is pre-wired down to the hand hole for easy installation, with the luminaire head attached to the pole with four stainless steel bolts.

Poles

Aluminum

Aluminum poles are fabricated from extruded marine grade low copper content aluminum alloy with internal support ribbing, which provides additional strength to the pole. After fabrication, the pole is finished with an additional nickel and zinc phosphate coating before finishing with a UV stabilized outdoor epoxy powder coat finish. The pole has a generous size hand hole that has a flush mount laser cut coverplate and is secured to the pole with tamper resistant screws.

Galvanized Steel

Steel poles are fabricated from extruded seamless carbon steel. These poles have a hot dipped galvanized coating applied after fabrication. Thereafter the phosphate is applied before finishing with a UV stabilized outdoor epoxy powder coat finish. The pole has a generous size hand hole that has a flush mount laser cut coverplate and is secured to the pole with tamper resistant screws. Steel poles are provided for 15' to 20' heights.

Base Covers

Vandal resistant high quality die cast aluminum two-piece base covers are styled to complement the pole. Ligman base covers also feature regressed holes to conceal the screws used to secure the base covers together, thus improving on the visual appeal of the pole and base cover.

Materials

Finishing Process

Cleaning

After the product has been prepared with a brushed finish. Ligman has a three-step cleaning process where the poles are de-greased, rinsed and then oven dried in preparation for the phosphate process.

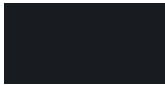
Phosphate

Ligman Lighting is unique in that it uses two pre-painted phosphate coatings on all its products. The poles are initially coated with a zinc phosphate and thereafter, a nickel phosphate is applied. This process provides superior corrosion resistance and an excellent adhesive base for the powder coating process.

Powder Coating

A UV stabilized polyester powder coat is applied to the poles and then baked in a curing oven at a temperature of approximately 200°C (392°F) for 20 minutes. The finish after baking allows for excellent corrosion resistance and color stability. Colors are consistent amongst fixtures and poles providing a perfect color match.

Paint Finishes



(01) Black - RAL 9011



(02) Dark Grey - RAL 7043



(03) White - RAL 9003



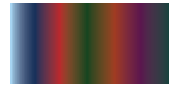
(04) Metallic Silver - RAL 9006



(05) Matte Silver - RAL 9006



(06) Bronze - RAL 6014



(07) Custom Color - RAL

Anchorage Bolt and Template:

Ligman provides a laser cut metal anchor bolt template as standard with every pole order. This template eliminates errors and uncertainties regarding incorrect and misaligned anchor bolts. Advance shipment of template & anchor bolts to the jobsite is provided when requested. Each pole is supplied with a matching set of galvanized steel anchor bolts, hex nuts and leveling washers. Anchor bolt sets are fully galvanized to prevent corrosion after installation.

Consistent Quality Through Technology

Ligman Lighting utilizes state of the art CNC controlled machines to ensure that the highest quality standards are provided on a consistent basis throughout our product range. To maintain these high standards, Ligman has invested in robotic welders, as well as laser cutting machines to perform the various manufacturing procedures required in fabrication. Emphasis is placed on providing a robust, high quality, aesthetically pleasing product.



Options & Accessories

GFCI Provisions

Ligman can provide, upon request, GFCI receptacle boxes & covers. The receptacle box location(s) can be provided in one or more locations along the pole, based on customer requirements. These boxes are partially recessed into the pole and are seamlessly welded to provide a smooth and clean appearance, that meets the high quality and aesthetic requirements of our customer's.

Photocell

An optional high quality photocell can be specified.

Occupancy Sensors

Pole mount IP66 outdoor rated occupancy sensors can be provided in; white, black or bronze. These colors should be specified when ordering poles. The occupancy sensors provide 360° coverage and have integrated controls that provide the following field adjustable fixture control options.

- Digital PIR occupancy detection
- Photocell control
- Dimming
- High/Low switching

Please contact Ligman Lighting for more technical information on this product.

Lighting Controls-Customer Specified System

Control systems for Ligman Lighting outdoor lighting installations are catered for inside the light fixtures. Depending on the specified lighting control system, our fixtures are assembled with the necessary control devices so that these can be incorporated into the building and site control system.

Ligman also offers a Smart Lighting Control and Monitoring System. This provides flexibility and modularity, enabling customers with a range of light control system requirements to identify solutions ranging from local to wide area metropolitan networks.

The T-Light Family Includes:

T-Light Galaxy – a wide area network utilizing single Base Station covers an area of up to 20 km radius and monitoring directly up to 50,000 luminaries

T-Light Pro – a robust multi hop RF Mesh network with self configuring, self healing capabilities, non line of sight links. Provides local or wide area coverage.

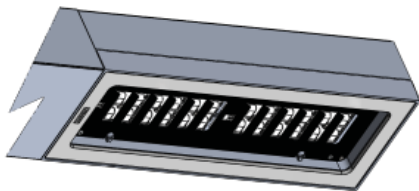
T-Light Basic – RF Mesh network for self-contained local area deployments (e.g. campuses, dealerships, parking lots, gas stations etc).

These systems feature various configuration choices. They also offer seamless scalability as the customer's needs change and expand.

For more information, please contact Ligman Lighting Factory.

House Side Shield

For light trespass control, a house side shield can be specified as an additional option. This removable house side shield is attached inside the light fixture, within the IP65 LED housing.



HSS - House Side Shield

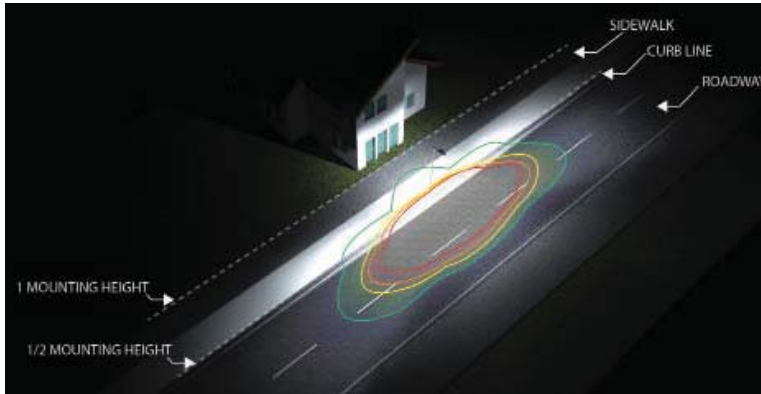


GFCI - GFCI Receptacle

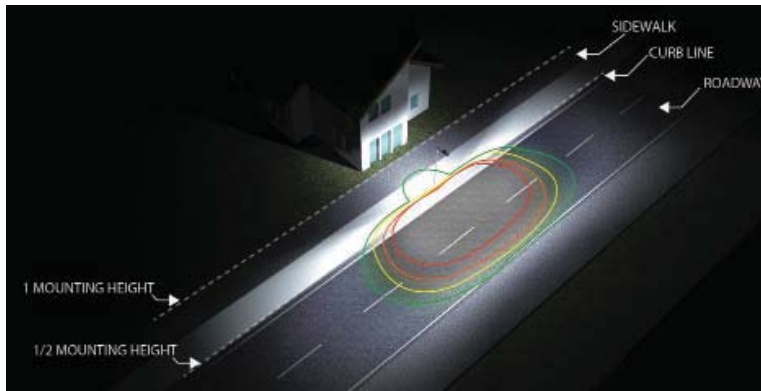


Pole Mounted Photocell

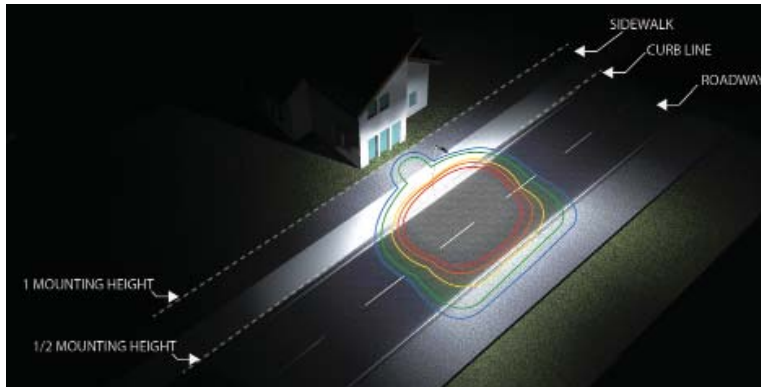
Distributions



Type II - Half-maximum candela trace on the street side is beyond the 1 MH LRL but not beyond the 1.75 MH LRL



Type III - Half-maximum candela trace on the street side is beyond the 1 MH LRL but not beyond the 2.75 MH LRL



Type IV - Half-maximum candela trace on the street side is beyond the 2.75 MH LRL

IES Roadway Luminaire Classifications

The Illuminating Engineering Society of North America (IESNA) defines roadway and area lighting fixtures by their photometric properties and distance to the half maximum candela trace and the maximum candela value. The classifications allow designers to choose the proper product for their requirements.

The lateral light distribution with regards to the lighted area width described as multiples of the mounting height (MH). The width of the half-maximum candela trace within the longitudinal distribution range (Short, Medium or Long) is used. The boundaries for each classification in terms of Longitudinal Roadway Lines (LRL, running along the roadway) as shown in the renderings above.

In addition to these types, the light distribution can be classified as Short (S), Medium (M), or Long (L). This refers to the luminaire's vertical distribution and is based on where the maximum intensity (candela value) points to in the grid in the figure above, given in Transverse Roadway Lines (TRL, running across the roadway) as a multiple of mounting height (MH)

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