



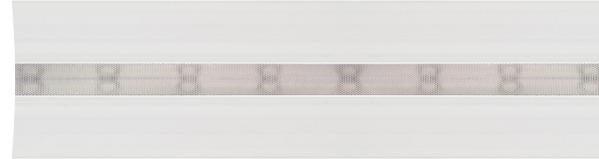
**TCA**



**TCE**



**TCR**



Teknoline is a system. It has a wide range of optical light distribution which will meet all kinds of applications and needs from different linear luminaires to spotlights. Cable and trunking systems, automation infrastructure, emergency units and routing modules. In addition to all these, it has very high efficiency and activity ratios. Teknoline system will reduce the operating expenses and first investment costs, easy and simple application solutions will reduce labor time and costs.

As the luminaires are mounted on a universal duct system, they provide great flexibility both in the application and in the future projects. It has easy, simple and flexible installation features also design and implementation stages are very comfortable for designers. Again, due to the facilities offered by the system, changes made in places in the future can be easily achieved without using tools. Many different optical structures will allow you to easily adapt possible changes in space functions or different light needs that can arise. The high technology used in the luminaires provides very high efficiency values and visual comfort.

**Trunking System**

TRL5 | TRL7



**Linear Lighting**

TCA | TCE | TCR



**Spots**

RLP-T



**Exit**

LXT-T



A luminous strip can be formed with linear luminaires which can meet different light needs on a trunking system, spot fixtures and it can be installed without the need for a rail system. Emergency exit and routing fixtures can be added in some areas. These advantages make it an indispensable complete solution.



The system consists of a canal system, which you can select and install very easily according to your needs also it has a luminaire-optic structure where you can choose the phase and could be installed without tools. The optical structures used in the system offers different light distributions that can meet every need. The most appropriate light requirement, luminous flux, distribution shape can be selected from a wide range of options.

## Advantages

- Low installation cost due to modular construction
- Efficiency reaching 137lm/W
- Low glare, high visual comfort
- DALI can be controlled by Dim, DALI cable channel system
- Uninterrupted light strip
- Various light distributions (narrow beam, medium beam, wide beam, very wide beam, asymmetrical and double asymmetrical)
- Save maintenance costs
- Use of luminaries for different purposes on the same trunking (spot, exit, etc.)

## Industrial



Since it has a long life and no lamp replacement is required, work disruptions are prevented especially in production areas. High efficiency and ease of positioning in desired areas are the advantages. It provides efficient application in industrial plants up to 4m and 15m in height with different optical options.

## Shopping



Attention should be paid to illumination, especially since the inadequacy of retail areas is effective on shopping trends. Different sections and sections of the grocery stores can be illuminated with different optical structures and the lighting can be changed easily when the market layout is changed.

## Office



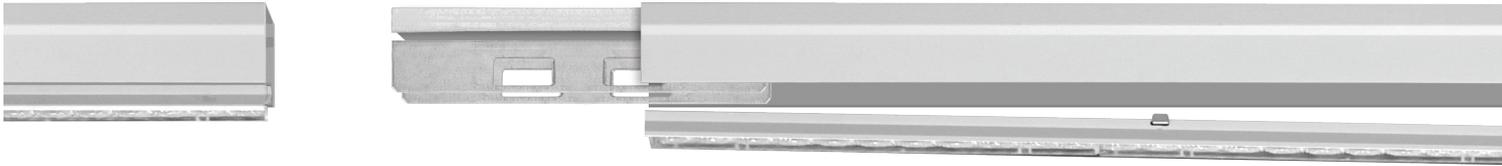
Thanks to its slim stylish profile in office areas, it maximizes the comfort of light while adding value to the environment. Thanks to its linear or intermittent use, the desired visualization can be achieved. Different optical structure features can be used for different parts of offices. Changes to the office settlement will be easily adapted.

## Showroom



Teknoline can be used as spotlights in spotlights in the canal system. Thanks to the flexibility brought by Teknoline system in showroom and similar fields, not only spot lighting can be used, but linear systems and point systems can be used in harmony.

# Trunking System



Teknoline linear lighting is compact and unidirectional. It allows to create smooth and continuous light lines. Point lighting, output and routing modules, reflector systems can be used on the same trunking where necessary.

## Trunking



The TRL trunking system can be inserted end-to-end in a linear manner. Trunking lengths can be made in different lengths from 1.5 meters to 4.5 meters. The joining members firmly secure the channel modules together. Various mounting parts that can be used in different pans or hanger systems allow easy installation without any problems.



TRL5

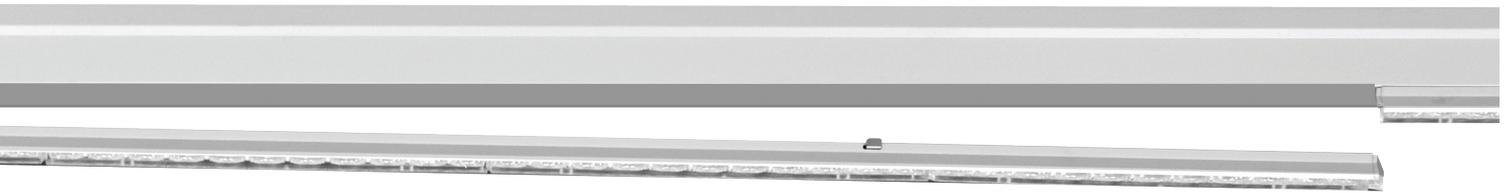
TRL7

### Body:

It is produced by aluminum extrusion method. At least 80 micron thick electrostatic powder painted. U-shaped design and strength-enhancing folds keep the stretch of the linear trunking at a minimum and prevent sagging aesthetics.

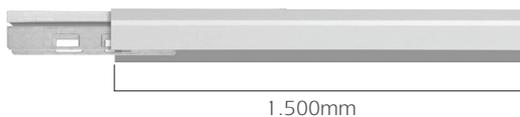
### Properties:

The contractors on the cable gates inside the trunking allow phase selection using the adjustable terminals from the top cover of the LED modules. 5-wire and 7-wire systems are available. In the 5-wire system, it carries 3 phases, neutral and ground lines within the trunking. The user can choose between 3 phases. In 7-wire system, it carries 3-phase, neutral and earth lines and also carries 2 cables. These cables are used as DALI automation line. Here again, phase selection is made and the data is transferred to the fixture module from 2 points.



The TRL Trunking System can be inserted end-to-end in a linear manner. Trunking lengths can be cut from 1.5 meters to 4.5 meters. The connecting parts firmly secure the trunking. The trunking can be hung from a certain point to the ceiling as a pendant with different suspension devices.

## Trunking Lengths

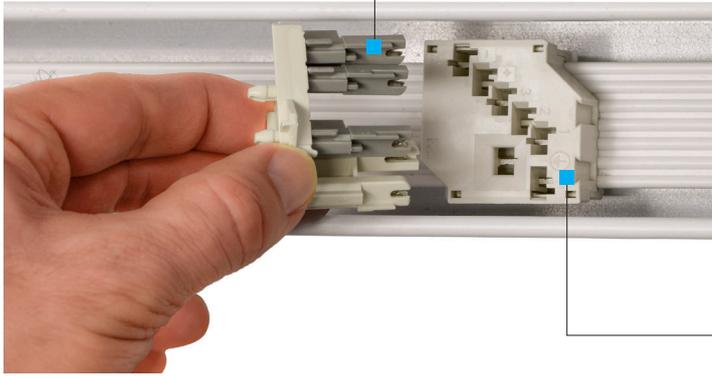


## Maximum Trunking Lengths by Luminaires Type

LIGHTING TYPE	POWER	PIECE	TOTAL SIZE	TOTAL POWER
HE	45W	30	45m	1.350W
HO	65W	18	27m	1.170W

CODE	LENGHT	LxWxH(mm)	BOX DIMENSIONS	WEIGHT
TRL5/150	Single (1x)	1500x68x55 mm	1550x90x90 mm	1.5kg
TRL5/300	Double (2x)	3000x68x55 mm	3050x90x90 mm	3.0kg
TRL5/450	Triple (3x)	4500x68x55 mm	4550x90x90 mm	4.5kg
TRL7/150	Single (1x)	1500x68x55 mm	1550x90x90 mm	1.5kg
TRL7/300	Double (2x)	3000x68x55 mm	3050x90x90 mm	3.0kg
TRL7/450	Triple (3x)	4500x68x55 mm	4550x90x90 mm	4.5kg

## Ease of Installation



The phase selector is a special type socket. When selecting the phase, the 5-wire system is neutral and the earth contacts are fixed to the energy receiving apparatus. One of the three phases can be selected by moving contact.



In the 7-wire system, neutral and earth contacts are fixed. Two data contacts should be kept constant and one of the three phases should be selected with the moving contact.

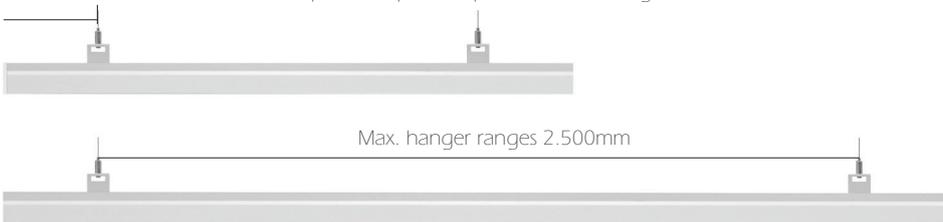
The female socket maintains the stripped cable cross-section and enables the desired combination to occur. Wago socket and phase selector are used in the luminaire.



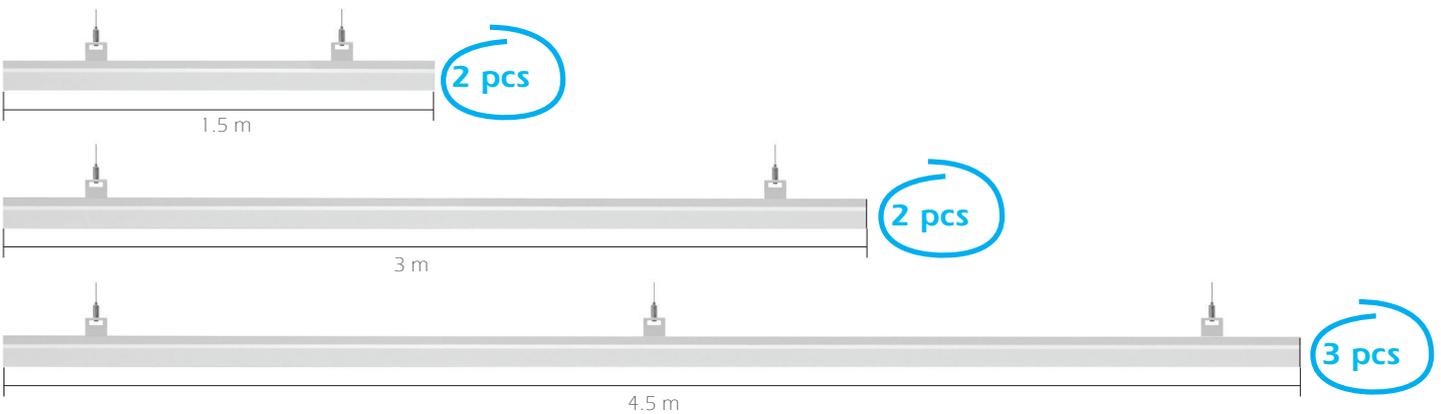
By pushing the mechanism in, the fixture is easily mounted by locking it to the canal. It can be disassembled by pulling the fixture free.

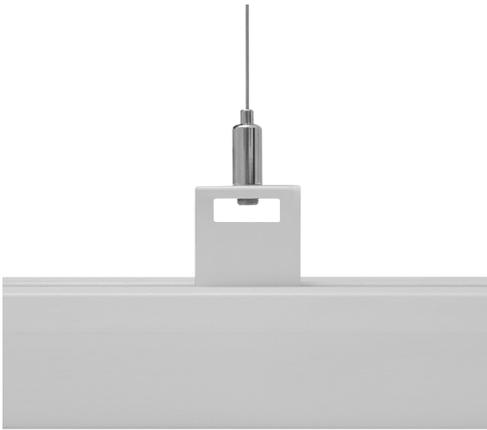
## Hanger Ranges

It is recommended that the end cap and suspension point be in the range of 100mm - 500mm.

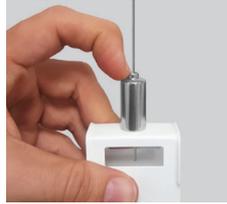


## Number of Hanger Apparatus by Size





Hanger types are easily connected to the channel from the top. Due to the intelligent apparatus, the possibility of incorrect connection is low. It is easily adapted to the existing chain system. Optionally, the channel and the fixtures attached to it can be hunted from the ceiling. Where necessary, there are apparatus which can be attached directly to ceiling or roof profiles.



You can release the wire by pressing it gently with the nail tip. In this way the stalactite length can be easily adjusted to the desired level.

## Bracket Types



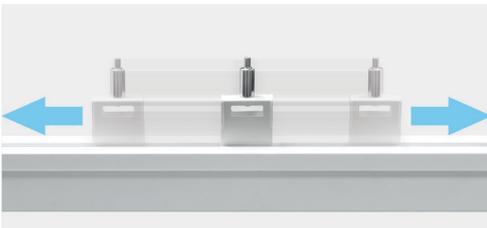
CHA  
Hanger for chain



TWA  
Steel wire strap



FRA  
Direct Mounting



The apparatus is easily squeezed into the channel by being squeezed on both sides. Again, it can be gently squeezed along the channel. In this way, it can be moved to any suspension point in the ceiling and the installation location can be changed.

## Connection Apparatus



TCN



Trunking Connector



CAP

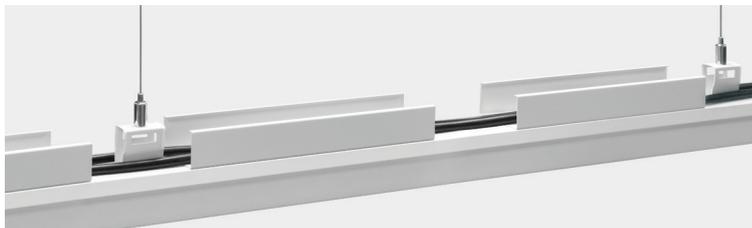


Used at the end points of the channel.

## Cable Channel



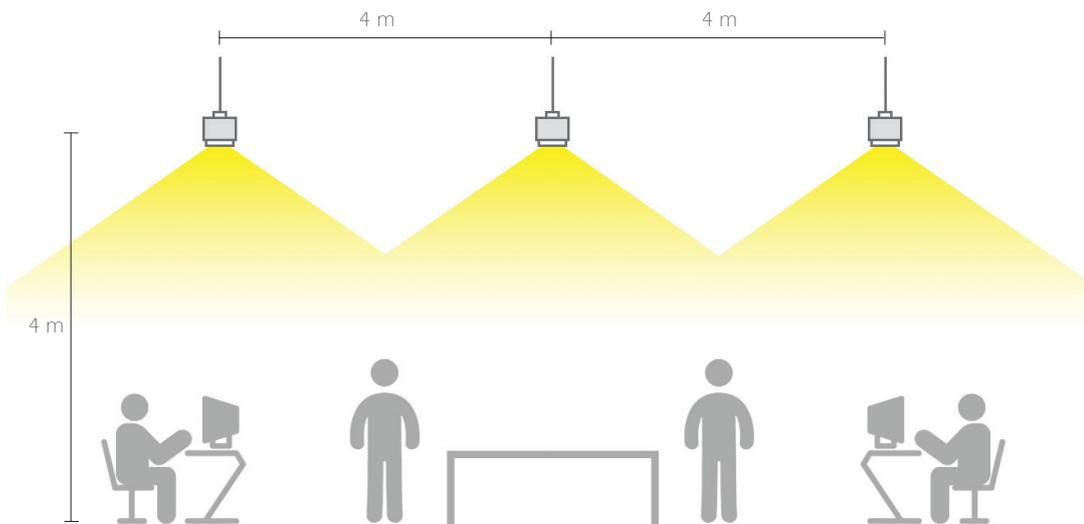
CTR



The cable carrying part is designed to meet the different needs of the enterprise. It is an auxiliary solution for energy needs that are not related to lighting and system. With the cable carrier that can be easily mounted on the canal system, different cables can be easily carried along the canal system.

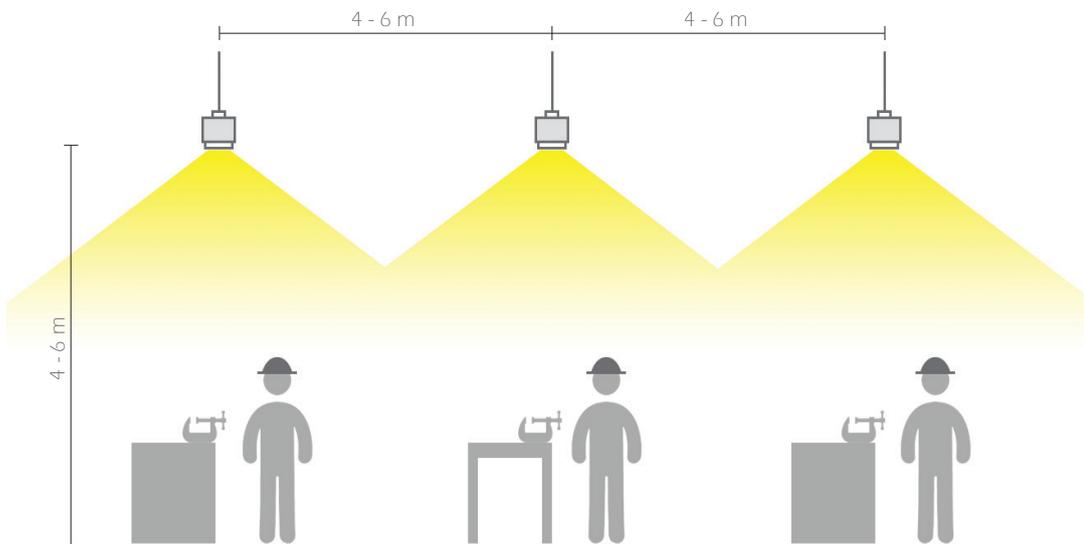
# Optical Alternatives

## Office

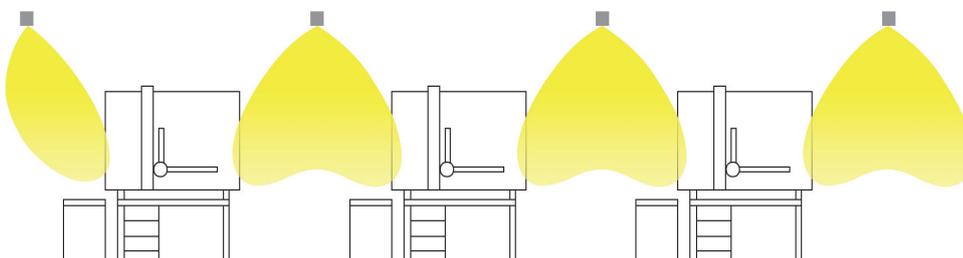


- With wide-angle illumination, it is important to illuminate the areas where office, corridor and homogenous lighting is desired.
- The lighting of tables, cupboards and shelf areas is facilitated regardless of their position.
- Replacement of the items can be made without the need to change the fixture positions.
- Low UGR minimizes glare from the eyes of employees.

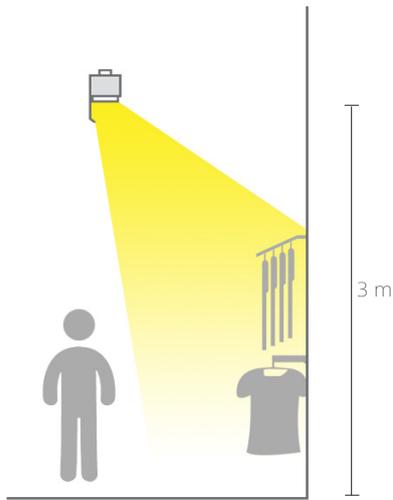
## Industrial



- It ensures that the production areas are properly illuminated.
- Regardless of the position of the machine and work areas, the lighting design can be designed and commissioned to give the desired result.
- It may then be desirable to make changes to the locations of the machines. This problem can be solved without having to change the luminaire positions.
- Depending on the height, luminaires can be used at different angles.

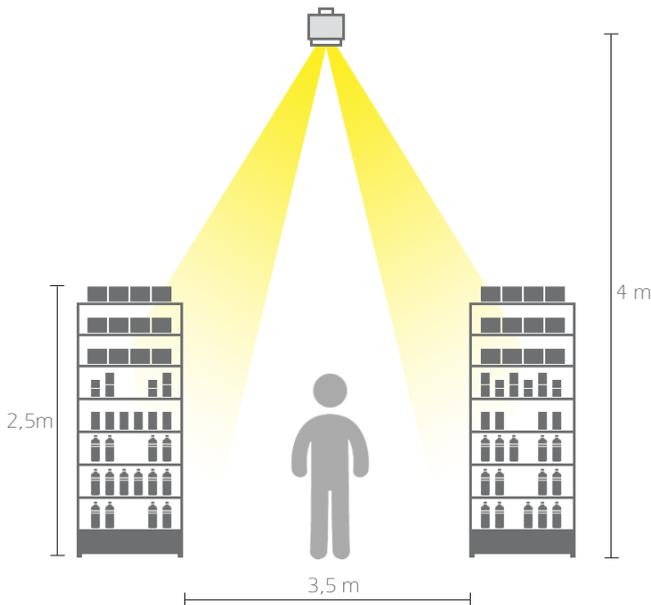


## Stores



- With the lenses used, the light is asymmetrically hit on the wall or shelf surfaces with one side.
- The light focuses on certain surfaces on the shelf.
- In this way, customers focus directly on the objects that the light hits.
- Spot lighting with spot modules.

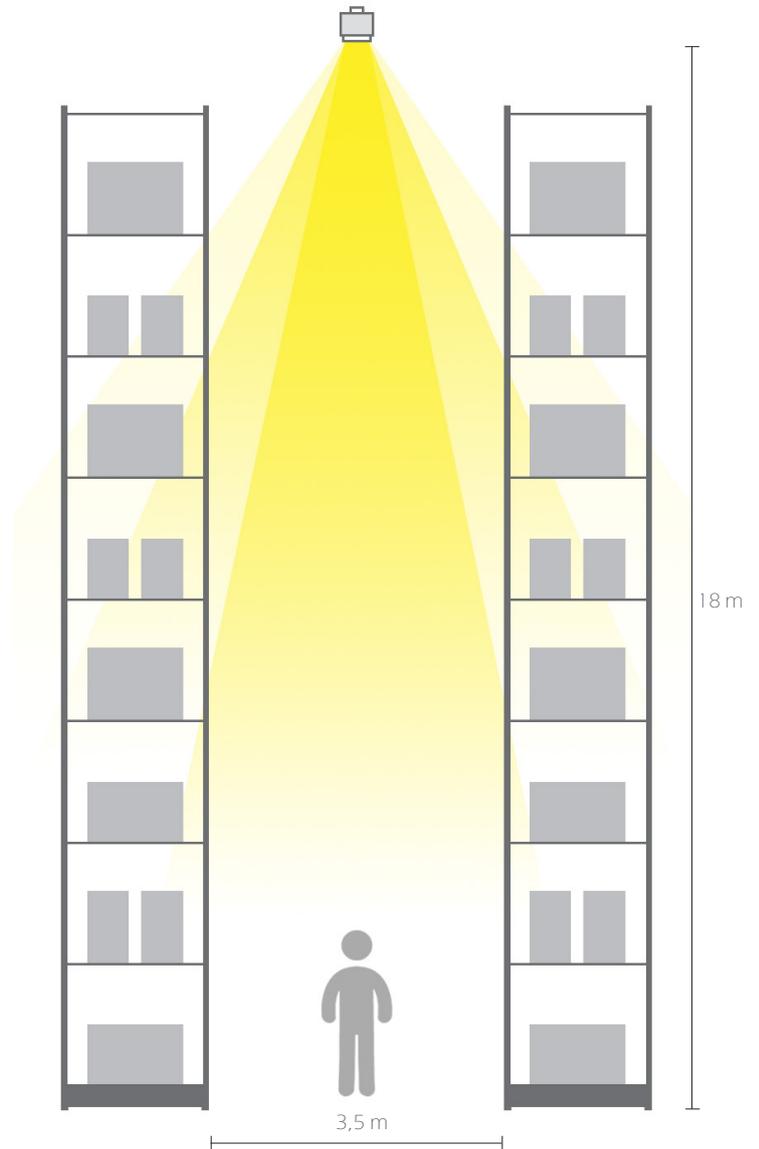
## Retail



- It allows the illumination of the single side of the shelf surfaces with the lenses used.
- Specially designed for rack positions.
- It provides less light in between the shelves and focuses directly on the products on the shelf.

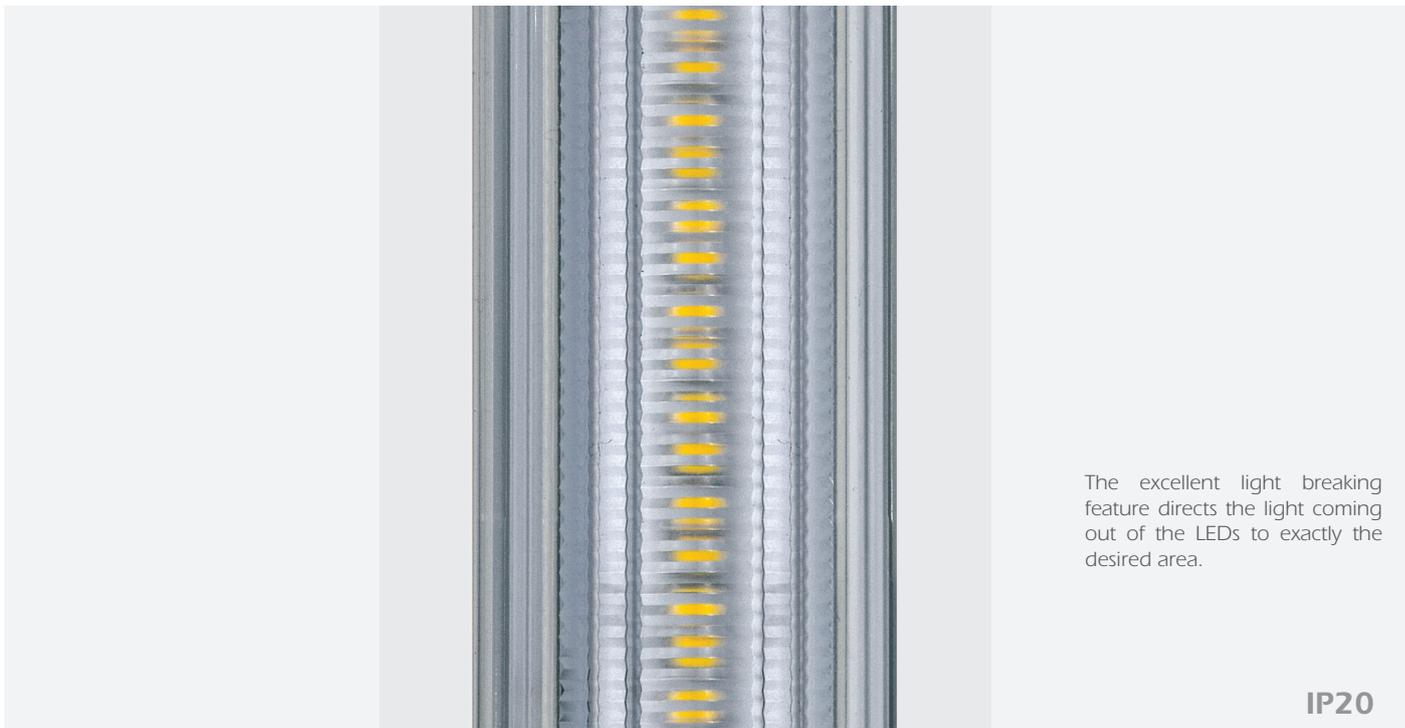


## Warehouse



- Adequate lighting is provided from medium shelves to high shelves, while the corridors provide the best level of qualification.
- The lighting solution is specially designed and placed to fit the respective racking condition.
- Optimized illumination of the corridor areas is achieved when the light distribution at the shelf surfaces is at the smoothest level, and the lenses used are obtained by breaking the light in the best way.

# Linear Luminaires



The excellent light breaking feature directs the light coming out of the LEDs to exactly the desired area.

**IP20**

## TCA



Teknoline TCA coded products provide high luminous efficiency in many areas. Both lens and LED quality and efficiency are the highest in the products. The fixture body integrates with the aluminum extrusion material and provides adequate and uniform cooling. There is a separate optical chamber for each LED. In this way, the light coming out of the leds is controlled with every direction, while the glare is minimized.



- Aluminum extrusion body
- Vossloh Schwabe or Ledil brand optical structure
- Cooling from the body surface
- High-efficiency Mid-Power Led
- 3.000 - 4.000 - 5.000 - 6.500K
- 220V - 50Hz

Code	Box Dimensions	Weight
TCA	162 x 18 x 13cm	6.4kg (4pcs in a box)

Teknoline TCA coded luminaires can be equipped with different lens types such as narrow angle, wide angle and asymmetric. In this way, light distributions can be created in different places according to the need.



# Sample Calculation



20x

TYPE	PIECE	TOTAL SIZE	POWER	LUMINOUS FLUX
HE	20	30 meter	900W	100.000 lm
HO	20	30 meter	1.300W	135.000 lm

The light produced by the highly efficient Mid Power LEDs is routed by breaking the permeability through the highest level of lens. The color temperature can be determined at the desired level. The body surface ensures adequate cooling and maximizes the life of the LEDs.

### HE - High Efficiency

120lm/W

CODE	POWER	LUMINOUS FLUX
TCA150HE/MB	43W	5.010lm
TCA150HE/WB	43W	4.990lm
TCA150HE/AS	43W	4.840lm
TCA150HE/DA	43W	4.970lm
TCA150/C	Blank Cover	

- MB : Medium Beam
- WB : Wide Beam
- AS : Asymmetrical
- DA : Double Asymmetrical

### HO - High Output

105lm/W

CODE	POWER	LUMINOUS FLUX
TCA150HO/MB	65W	6.730lm
TCA150HO/WB	65W	6.710lm
TCA150HO/AS	65W	6.540lm
TCA150HO/DA	65W	6.680lm



# Linear Luminaires



Thanks to the high technology used in the lens design, the light emitted from the Leds is only directed to the desired areas.

**IP20**

## TCE



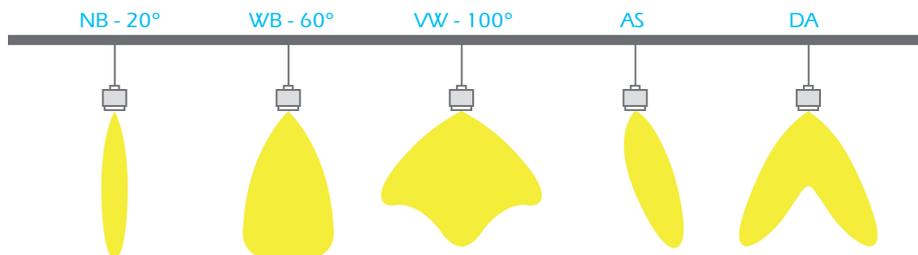
Teknoline TCE products provide high luminous efficiency in many areas. Both lens and LED quality and efficiency are the highest in the products. The fixture body integrates with the aluminum extrusion material and provides adequate and uniform cooling. There is a separate optical chamber for each LED. In this way, the light coming out of the leds is controlled with every direction, while the glare is minimized.



- Aluminum extrusion body
- Vossloh Schwabe or Ledil brand optical structure
- Cooling from the body surface
- High-efficiency Mid-Power Led
- 3.000 - 4.000 - 5.000 - 6.500K
- 220V - 50Hz

Code	Box Dimensions	Weight
TCE	162 x 18 x 13cm	7.5kg (4pcs in a box)

Teknoline TCE luminaires can be equipped with different lens types such as narrow angle, wide angle and asymmetric. In this way, light distributions can be created in different places according to the need.



# Sample Calculation



20x

TYPE	PIECE	TOTAL SIZE	POWER	LUMINOUS FLUX
HE	20	30 meter	900W	120.000 lm
HO	20	30 meter	1.300W	160.000 lm

The light produced by the highly efficient Mid Power LEDs is routed by breaking the permeability through the highest level of lens. The color temperature can be determined at the desired level. The body surface ensures adequate cooling and maximizes the life of the LEDs.

## HE - High Efficiency



CODE	POWER	LUMINOUS FLUX
TCE150HE/NB	44W	5.990lm
TCE150HE/WB	44W	6.030lm
TCE150HE/VW	44W	5.910lm
TCE150HE/AS	44W	5.900lm
TCE150HE/DA	44W	6.040lm

TCE150/C	Blank Cover
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## HO - High Output



CODE	POWER	LUMINOUS FLUX
TCE150HO/NB	62W	7.810lm
TCE150HO/WB	62W	7.830lm
TCE150HO/VW	62W	7.650lm
TCE150HO/AS	62W	7.670lm
TCE150HO/DA	62W	7.820lm

- NB : Narrow Beam
- WB : Wide Beam
- VW : Very Wide Beam
- AS : Asymmetrical
- DA : Double Asymmetrical



# TCR

IP20



TCR; market, hobby market, electronic market, production areas that do not require high protection class, warehouse, hangar and other interior lighting developed for a series of high-efficiency luminaires. in luminaires; The light emitted from the LED light source is controlled by a prismatic diffuser with high permeability and light-controlled acrylic material and directed to the reflectors. This ensures a low glare of illumination.

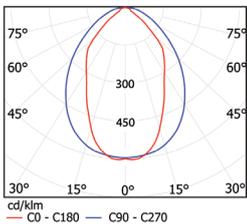
## Trunking Type



The luminaires can be attached to a channel and receive power through the trunking system.

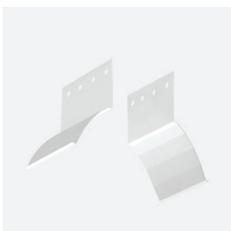


The light transmittance provided by the highly efficient Mid Power LEDs is refracted by the acrylic prismatic lens. Thanks to the LEDs to be supplied while providing adequate cooling from the body surface, the color temperature can be determined at the desired level. Models available with two separate power options can reach very appropriate activity levels



TCR 35	I	TCR 50
35W	I	50W
3.300 lm	I	4.750 lm
220V - 50Hz		
0,6mm thick DKP or aluminum		
Cooling from the body surface		
Prismatic lens		
3.000 - 4.000 - 5.000 - 6.500K		
12x15x152cm box dimension		
4.000 gr		

## Accessories



TCR/BP

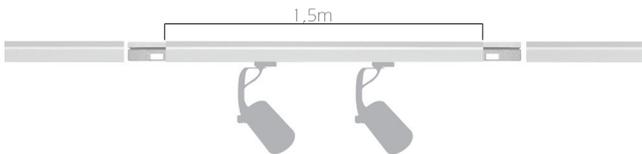


TCR/UK

## RLP-T

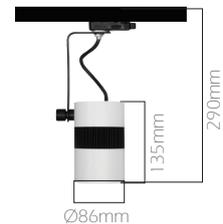
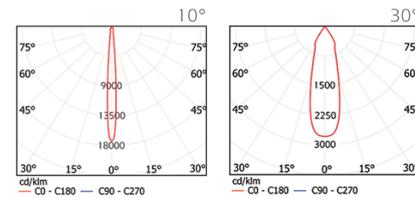


Spot fixtures can be mounted on the TRL canal system as on the rails. High-efficiency luminaires are available in areas such as shops, showcases, offices.



In the spot lighting fixture connections to be installed in the channel, the module length is 1.5 m long.

RLP-T
Mid Power LED
13W
1.350 lm
220V - 50Hz
Aluminum body and frame
Tempered glass
Aluminum extrusion cooler
3.000 - 4.000 - 5.000 - 6.500K



## LXT-T



LXT-T luminaires can be easily adapted to the trunking system. Since the luminaires are mounted directly on the special module cable carrier trunking, unnecessary costs are avoided such as extra cable pulling.



The length of the module shall be 1.5 m long in emergency steering luminaire connections

LXT-T
Mid Power LED
3W
95 lm
220V - 50Hz
24 hrs charging time
3hrs discharge time
-5°C ~ +45°C operating temperature
Plexiglass diffuser
1.2Vdc 1000mAh Ni-Cd
Aluminum extrusion cooler
6.000K
30m visibility range



IP20

IP20

L İ T P A

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