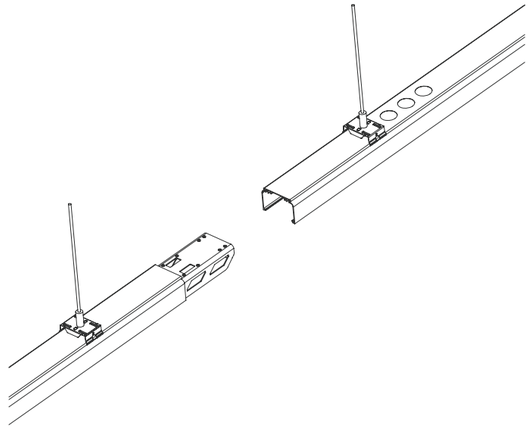
COOCO

LED LINEAR

TRUNKING SYSTEM

Version 24.0



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To Be Your Light Designer

About CooCo

CooCo, aiming at offering optimal and efficient LED Linear Lighting System for different applications, was founded in 2013 in Shenzhen.

CooCo's Product

- Three series lighting systems designed for specific applications.
- Perfect lighting effect realized by dedicated design.

CooCo's Adavantage

- VIP Service: All-round customization and marketing service to help customers expand their market rapidly.
- Local Warehouse: Europe warehouse enables us to reduce delivery time and upgrade after-sale service.

CooCo believes that we will grow up rapidly together with our partners by offering professional products and superior service.

Vision

Systematization

Modularization

Intellectualization

Innovative Optics

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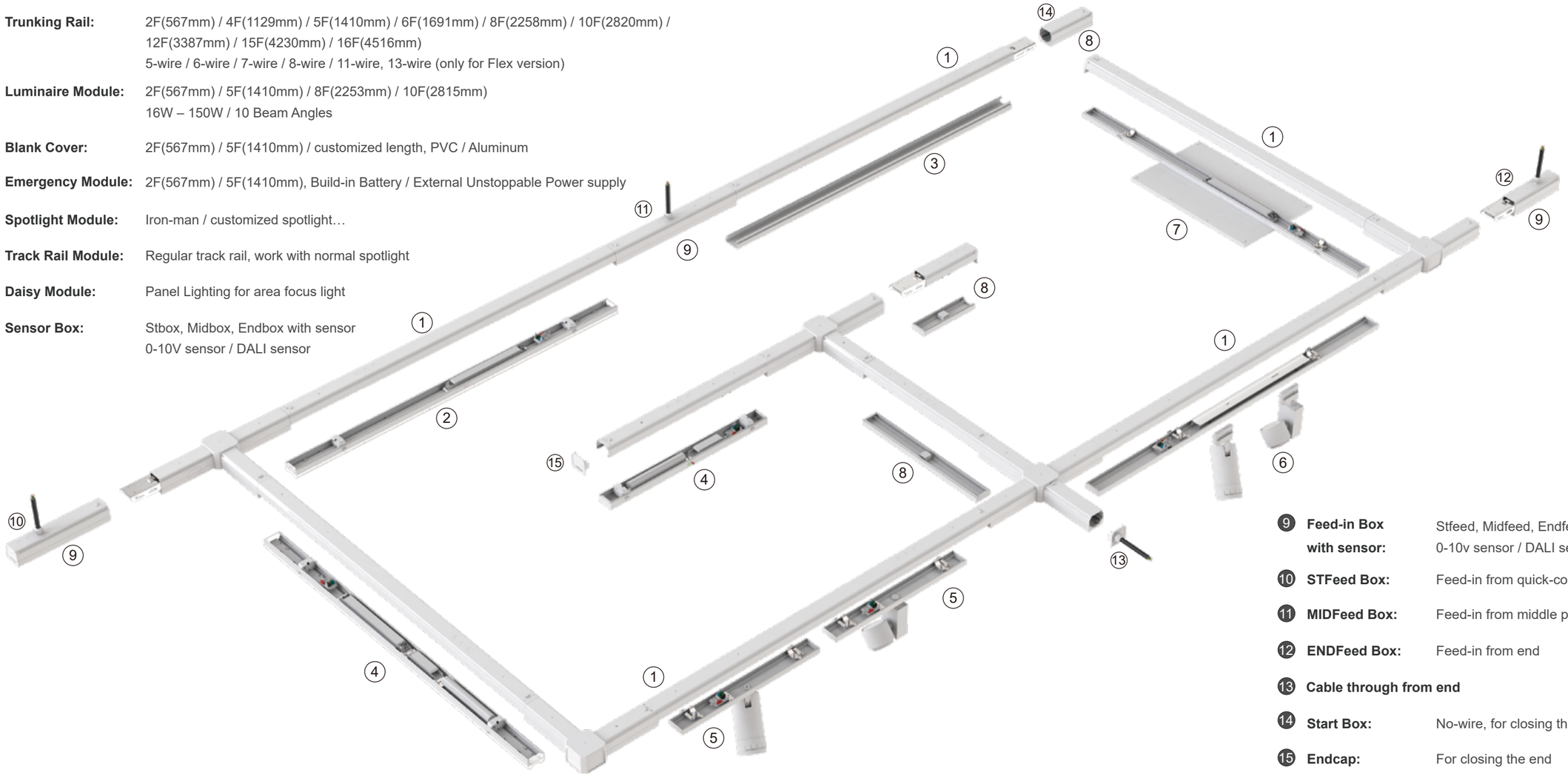
System Introduction

1. **Trunking Rail:** 2F(567mm) / 4F(1129mm) / 5F(1410mm) / 6F(1691mm) / 8F(2258mm) / 10F(2820mm) / 12F(3387mm) / 15F(4230mm) / 16F(4516mm)
   5-wire / 6-wire / 7-wire / 8-wire / 11-wire, 13-wire (only for Flex version)
2. **Luminaire Module:** 2F(567mm) / 5F(1410mm) / 8F(2253mm) / 10F(2815mm)
   16W – 150W / 10 Beam Angles
3. **Blank Cover:** 2F(567mm) / 5F(1410mm) / customized length, PVC / Aluminum
4. **Emergency Module:** 2F(567mm) / 5F(1410mm), Build-in Battery / External Unstoppable Power supply
5. **Spotlight Module:** Iron-man / customized spotlight…
6. **Track Rail Module:** Regular track rail, work with normal spotlight
7. **Daisy Module:** Panel Lighting for area focus light
8. **Sensor Box:** Stbox, Midbox, Endbox with sensor
   0-10V sensor / DALI sensor

Exploded View



9. **Feed-in Box with sensor:** Stfeed, Midfeed, Endfeed with sensor
   0-10v sensor / DALI sensor
10. **STFeed Box:** Feed-in from quick-connector
11. **MIDFeed Box:** Feed-in from middle position
12. **ENDFeed Box:** Feed-in from end
13. **Cable through from end**
14. **Start Box:** No-wire, for closing the end
15. **Endcap:** For closing the end

2015
ELine, CLine@G1

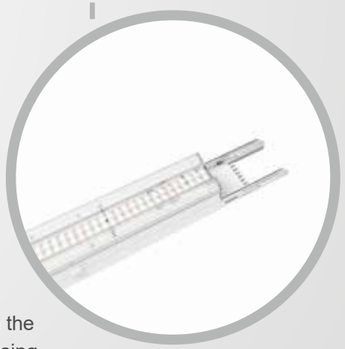
CLine G1 was introduced as the first model in the CLine product line. It featured a click-to-install structure, making installation quick and convenient.

2017
CLine@G2

Building upon the success of CLine G1, the CLine G2 was developed with new special optics for higher transmittance and lower UGR values.

2018
SLine Fixed

Introducing SLine Fixed with the innovative structure and housing materials, incorporating the T11 Fixed Connector System as part of a cost-effective strategy.



2023
SLine Flex

SLine Flex boasts the F13 Flexible Connector System, allowing unrestricted movement of modules within trunkings. Revolutionary design empowers designers and installers with limitless possibilities.

2024
TLine IP65 Flex

Empowered by the F13P Flexible Connector System, our linear trunking system now achieves IP65 waterproofing. This brings both systematic and aesthetic enhancements, expanding its applications to include tri-proof lighting solutions.

System Concept

Human-Centered Ideology

Putting people first, our LED lighting products prioritize comfort, productivity, and well-being.

Holistic Well-being

Promoting overall wellness, our LED lighting products support natural rhythms and enhance health and happiness.

Sustainable Futures

Lighting the way to a greener tomorrow with energy-efficient and eco-friendly LED products.

Ingenuity Design

Pushing boundaries with innovative LED designs that blend aesthetics and functionality seamlessly.

Peerless Quality

Uncompromising quality sets our LED lighting products apart, delivering exceptional performance and durability.

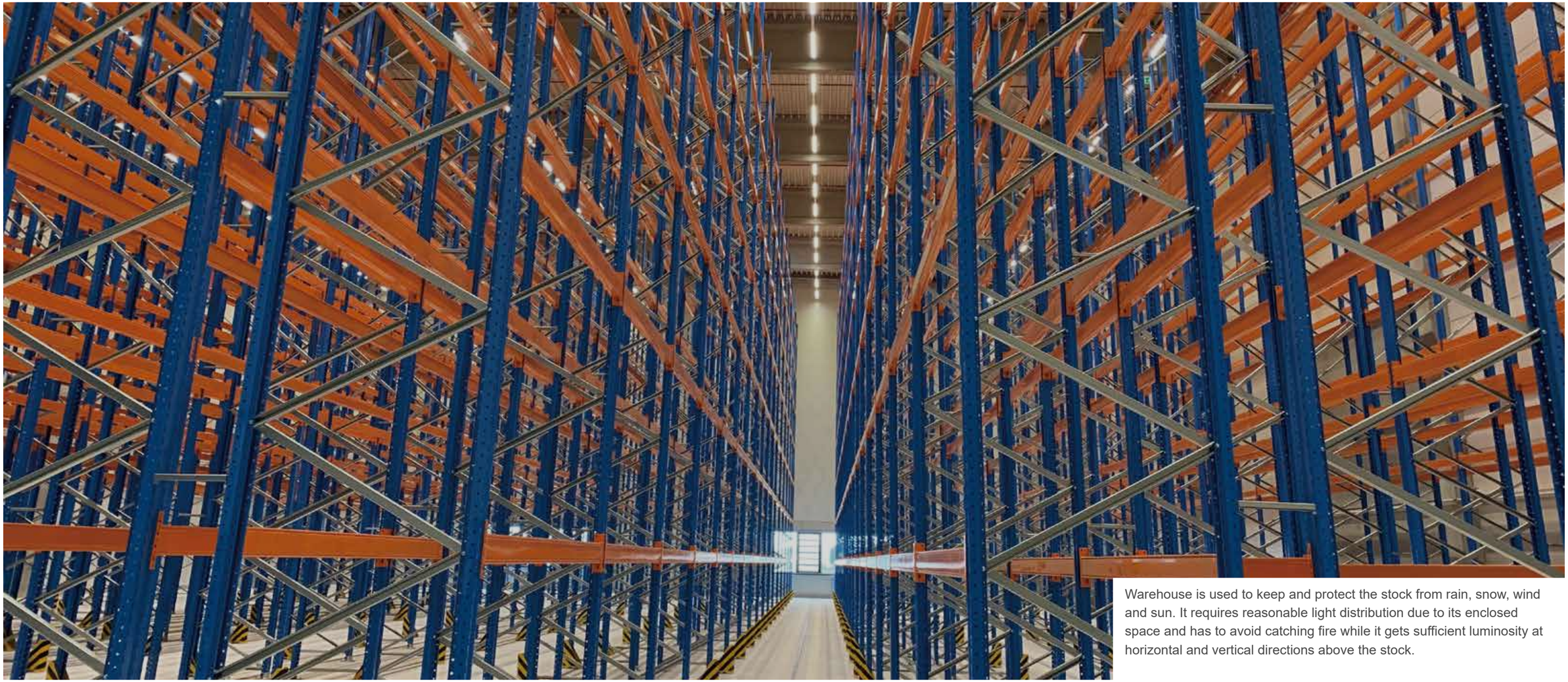
Harmonious Illumination

Creating a perfect balance of light and ambiance, our LED products enhance spaces with a harmonious glow.

With wide area and different shelf height, supermarkets have special lighting requirements. Our lighting system is aiming to show goods well in the crowded environment.

Working environment has a great impact on worker’s efficiency. And lighting plays an important role in creating enthusiastic working environment. Different workshops require different temperature and humidity range, hence high-quality light to support the operation.

Warehouse



Warehouse is used to keep and protect the stock from rain, snow, wind and sun. It requires reasonable light distribution due to its enclosed space and has to avoid catching fire while it gets sufficient luminosity at horizontal and vertical directions above the stock.

In data centers, where powerful power and cooling, continuous operation, and high availability are essential, the Linear Trunking System offers tailored features to meet these requirements seamlessly.

All-around solution

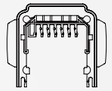
This results to different requirements from different applications in terms of flexibility, cost and energy consumption. A single system is hard to meet all the requirements.

Therefore, CooCo, a company has been dedicating to linear lighting system for 9 years, has developed 3 kinds of trunking systems in 5 generations to provide all-around solutions adapting to various applications.

1 Trunking

SLine
Fixed Trunking

SLine
Flex Trunking



TLine IP65
Flex Trunking

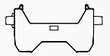
2 Luminaire Module

Opal Diffuser
for SLine

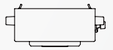
Optic Lens
for SLine

Opal diffuser /
Optic lens for TLine

3 Functional Module



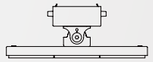
Emergency module
Type A



Emergency module
Type B

Spotlight
module

Sensor
module



Daisy Panel
Light Module

4 Accessory

Trunking Rail

As the 3rd generation of trunking system, SLine fixed is still popular in all applications. With its fixed connector system - T11, multiple-connectors can be used in fixed trunking system which allows limited flexibility.

SLine Flex is the 4th generation of trunking system we developed. Equipped with CooCo own designed flexible connector F13, the system is completely flexible that helps designers to focus on the illumination without any concern of luminaires' positions.

Retaining the feature of "flexibility", TLine IP65 Flex can be rustproof with IP65 which can meet all demands in harsh environment of some industrial applications.

from Fixed to Flex and Flex IP65

"Continuous" is always the core idea of the system. Both the trunkings in cost-effective fixed system and the maximum flexibility Flex system can be continuously connected to one another.

SLine Fixed:

The trunking of Fixed system is equipped with female connector with a fixed space.They have pre-wired cables from 5 wires to 11 wires.

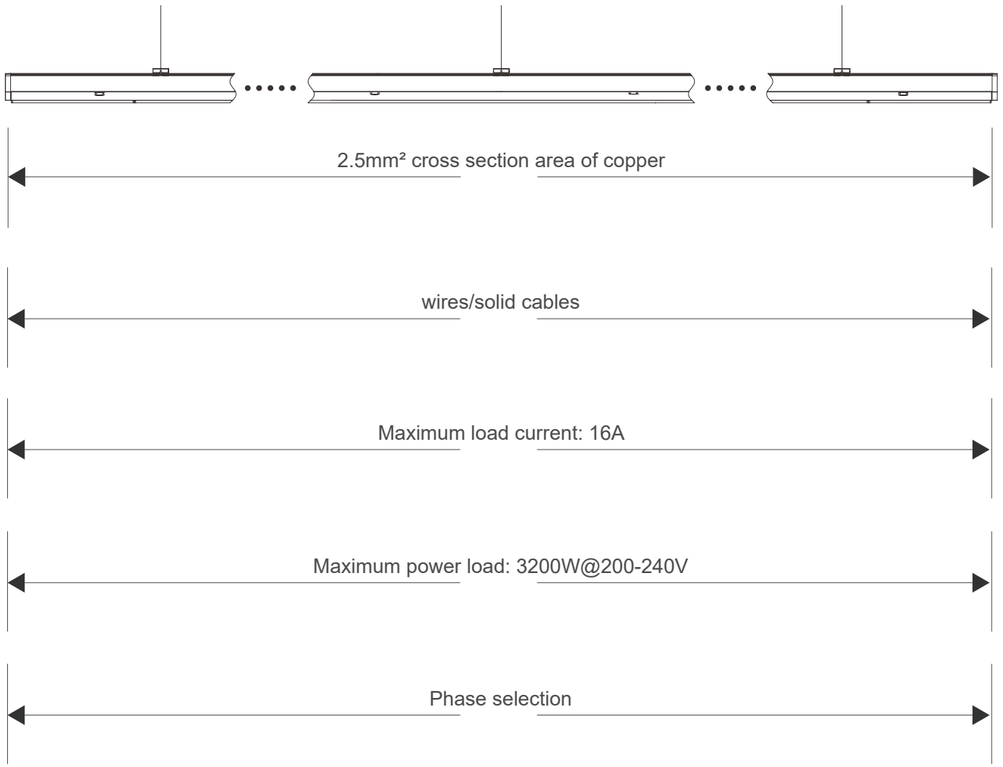
SLine Flex:

The trunking of Flex system has continuous wiring made of copper wires, which allows flexible positioning of modules. Modules are"free-to-attach" on the trunking. 8 or 13 wires are available. Therefore, both built-in battery emergency light and central power supply emergency light can be integrated.

TLine IP65 Flex :

IP65 Flex is not simply an additional variant of Flex system. The features of Flex is completely retained and IP65 level covers all applications with high demand.

Trunking Rail



Maximum Connection

Length of Module	Power of Module	Maximum Quantity per circuit	Maximum Length per circuit
5F: 1.41m	40W	80 pcs	112 m
	50W	64 pcs	90 m
	65W	50 pcs	70 m
	80W	40 pcs	56 m
8F: 2.253m	64W	50 pcs	70 m
	80W	40 pcs	90 m
	104W	30 pcs	68 m
	120W	26 pcs	59 m
10F: 2.82m	80W	40 pcs	112 m
	100W	32 pcs	90 m
	130W	24 pcs	67 m
	150W	21 pcs	59 m

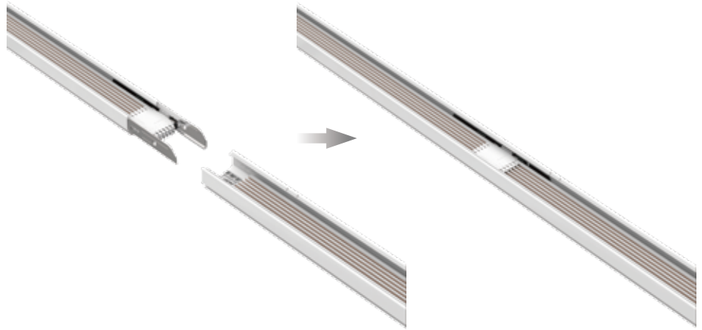
The formula for calculating a full load circuit is as follows:

1. Maximum Quantity = 3200W / Power rating
2. Full load length = Maximum Quantity * Length of each module

Trunking Rail

- Prewired copper wires/solid cables

- Effortless rail connection with the unique designed coupling
- "One-step" mechanical connection and electric connection
- Instant "push and play" design



Features

- Continuous connection
- Limitless cascading

- Safety rail locker design
- Lock rails for safety
- Unlock rails for disconnection

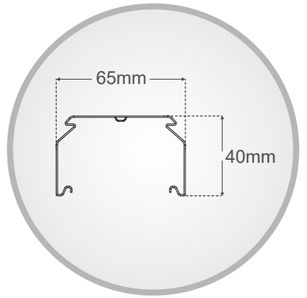
SLine Fixed 15F / Top view

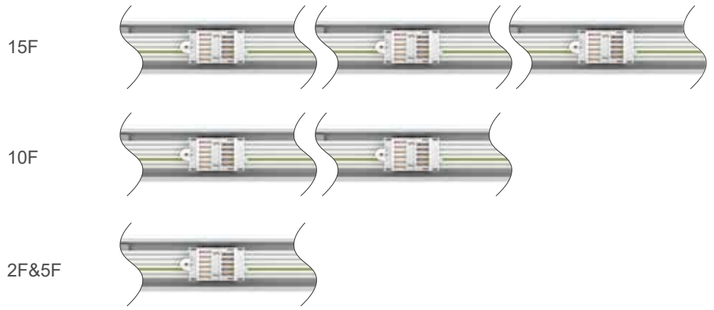
SLine Fixed 15F / Bottom view

SLine Fixed 10F

SLine Fixed 5F

SLine Fixed 2F





Wires in Trunking Rail	5 Wires	6 Wires	7 Wires	8 Wires	11 Wires	
Connector Plug in Luminaire	3 Pins	4 Pins	5 Pins	6 Pins	9 Pins 9+1 Pins	
Usage of Wires	L1,L2,L3,GND,N	L1,L2,L3,GND,N,LEM*	L1,L2,L3,GND,N, DA1/Dim+,DA2/Dim-	L1,L2,L3,GND,N, DA1/Dim+,DA2/Dim-,LEM	L1,L2,L3,GND,N,DA1/Dim+, DA2/Dim-,EL1,EN1,EL2,EN2 L1,L2,LEM,GND,N,DA1/Dim+, DA2/Dim-,EL1,EN1,EL2,EN2	
Function Description	Basic Lighting	Basic Lighting+ Battery Emergency	Basic Lighting+ Dimming(0-10V or DALI)	Basic Lighting+ Dimming(0-10V or DALI)+ Battery Emergency	Basic Lighting+ Dimming(0-10V or DALI)+ external UPS/EPS Basic Lighting+ Dimming(0-10V or DALI)+ external UPS/EPS+ Battery Emergency	

LEM*: Permanent live of emergency module.

SLine Flex 15F / Top view

4230mm

SLine Flex 15F / Bottom view

4230mm

SLine Flex 10F

2820mm

SLine Flex 8F

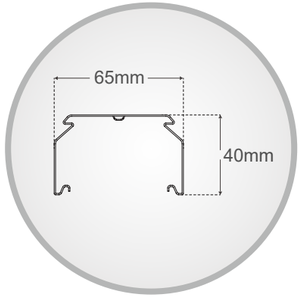
2258mm

SLine Flex 5F

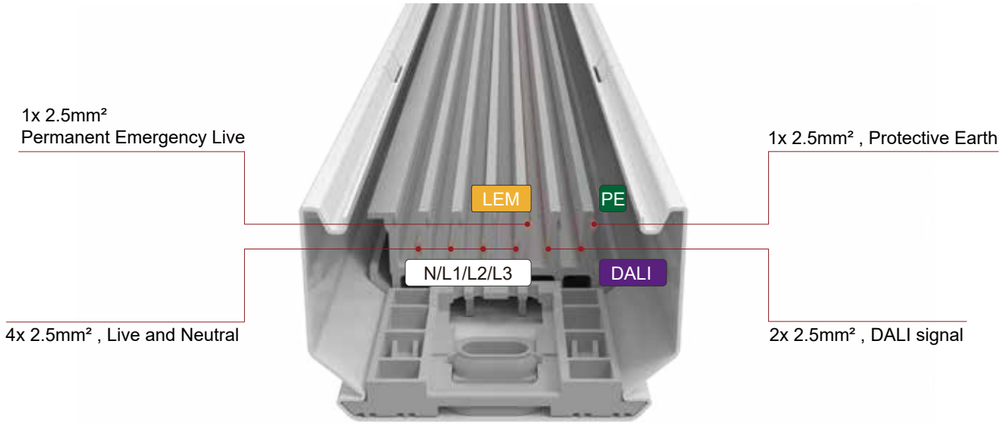
1410mm

SLine Flex 4F

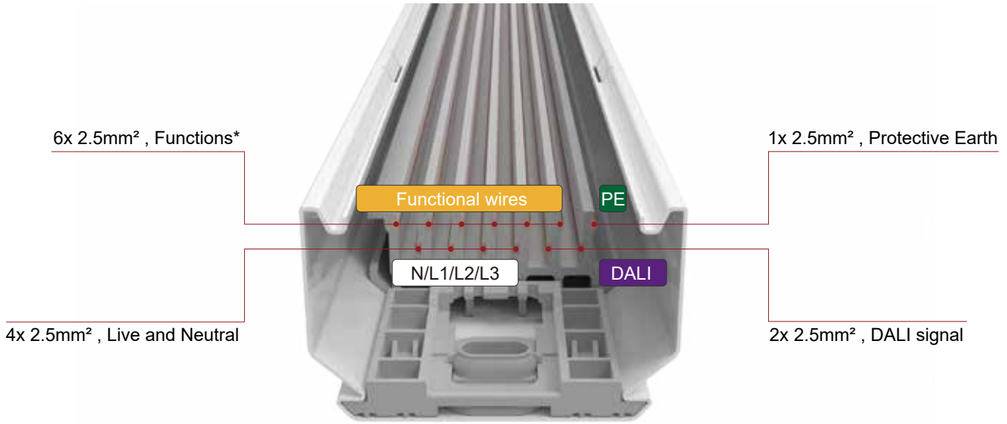
1129mm



8-wire trunking



13-wire trunking



IP65 Flex 15F / Top view

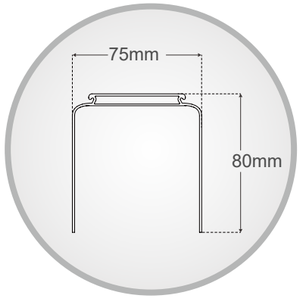
IP65 Flex 15F / Bottom view

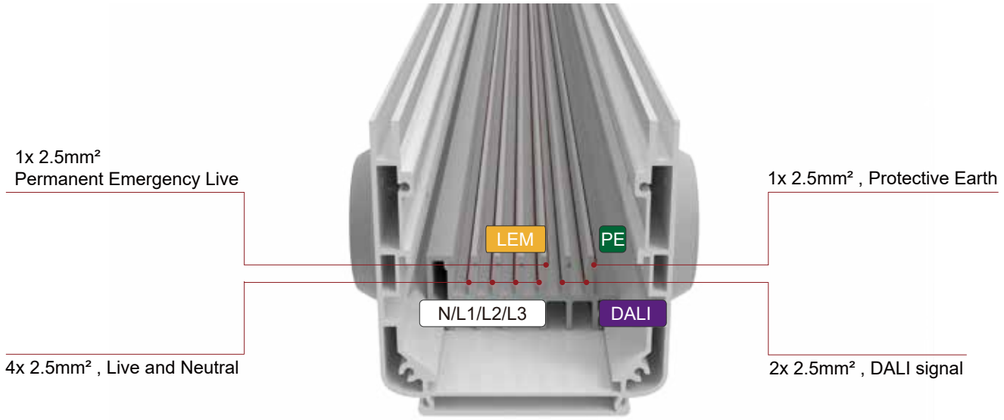
IP65 Flex 10F

IP65 Flex 8F

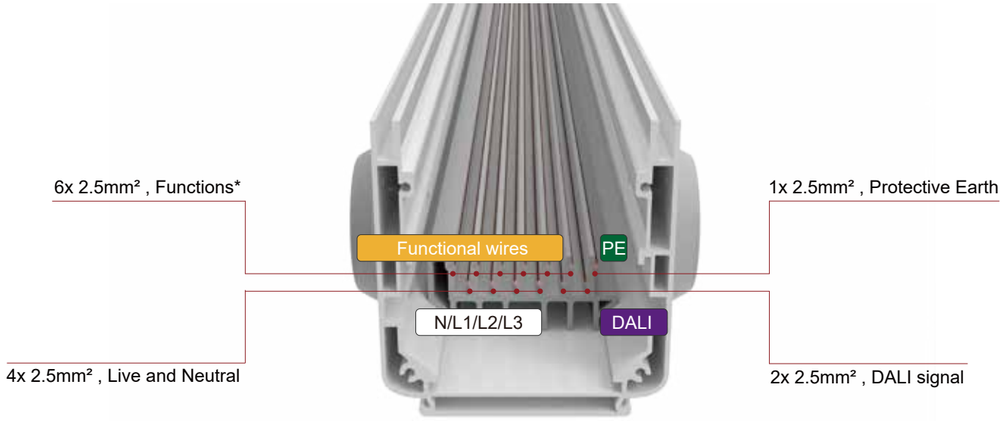
IP65 Flex 5F

IP65 Flex 4F





8-wire trunking



13-wire trunking

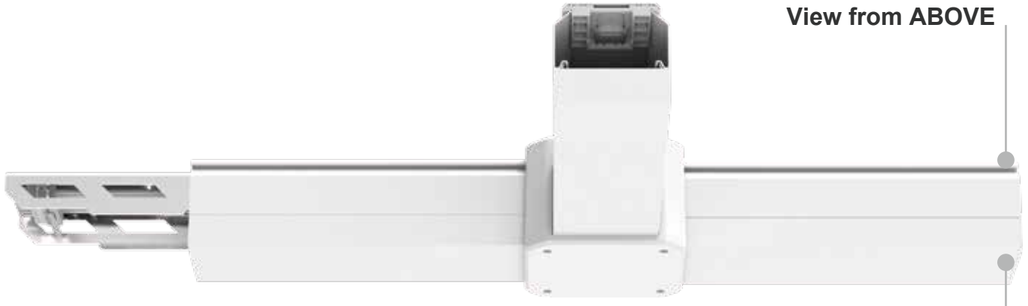
Enhanced rail locker:

- Rail locker on side surfaces
- Rotate to enhance rail connection
- Enhanced water-proof design
- IP65 rate

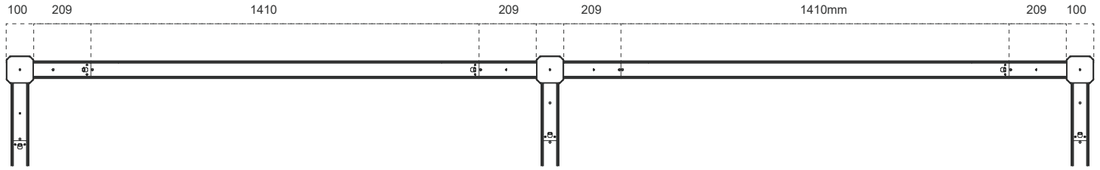
Enhanced protection of conjunction:

- Retaining instant rail-feeder
- Outer waterproof seal
- Special materials for anti-corrosion
- All-around IP65 rate

Trunking Rail



unit: mm



Node Connector

View from ABOVE

L_1_x

L_2_x

L_3_x

L_4_x

T_1_x

T_2_x

T_3_x

T_4_x

T_5_x

T_6_x

T_7_x

T_8_x

X_1_x

X_2_x

X_3_x

X_4_x

X_5_x

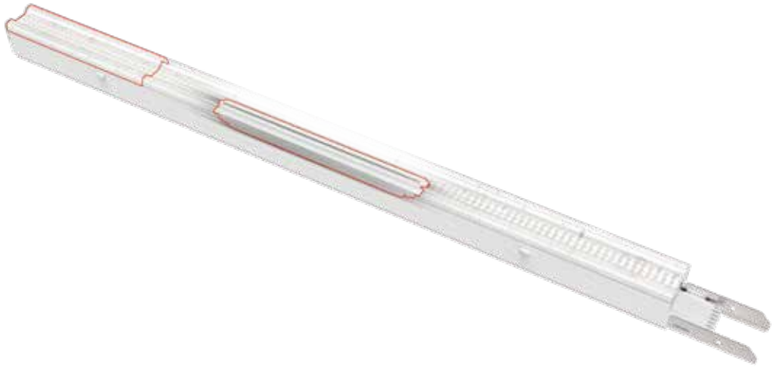
X_6_x

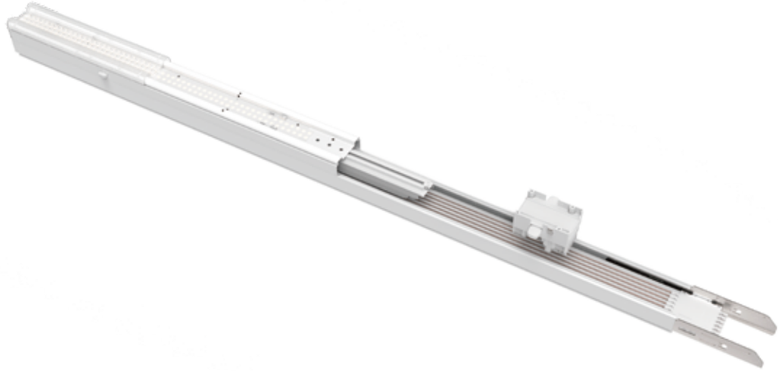
SLine Fixed & SLine Flex

- IP50
- Different connectors, same lumen solution

TLine IP65 Flex

- IP65 Flex
- Special lens design
- Dustproof and waterproof





High Efficiency

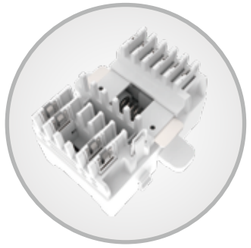
- The luminous effciency of the whole lamp can reach 160lm/w or 185lm/w.
- The transmittance of the lens can reach 96%.
- The efficiency of LED driver can reach 94%.

All-around Testing

- Innovative optic design
- UGR<19, transmittance up to 96%, PMMA anti-corrosion
- 9 PMMA beam angles, 1 pc diffuser

Luminaire Module

T11 Fixed Connector for SLine Fixed: Self-development, compatible with all trunking from 5 to 11 wires.



F13 Flex Connector for SLine Flex: Self-development, one-step design for electric and mechanical connection. Special fool-proof design for safe installation.

SLine: Advanced electric design, up to 92% efficiency with Tridonic, Osram, and Philips LED drivers. Lumen options from 6400lm to 24000lm, configurable in 500lm steps. Special heat dissipation ensures optimal performance, reaching L80B10@100k hours or L90B20@50k hours at ta:45°C.

SLine's own-developed optic lens achieves 96% transmittance, maximizing LED chip capacity. Unique optic design enhances light quality, offering lower UGR values down to 16 at high lumen output. Achieving the lowest UGR in the same beam angles and the maximum lumen output at the same UGR value.

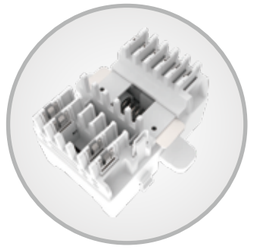
LED: High-quality LED chips from Samsung and Lumileds, SLine provides both 160lm/w as standard and 185lm/w as high efficiency version.

9 beam angles, same appearance

diffuser for 130° only

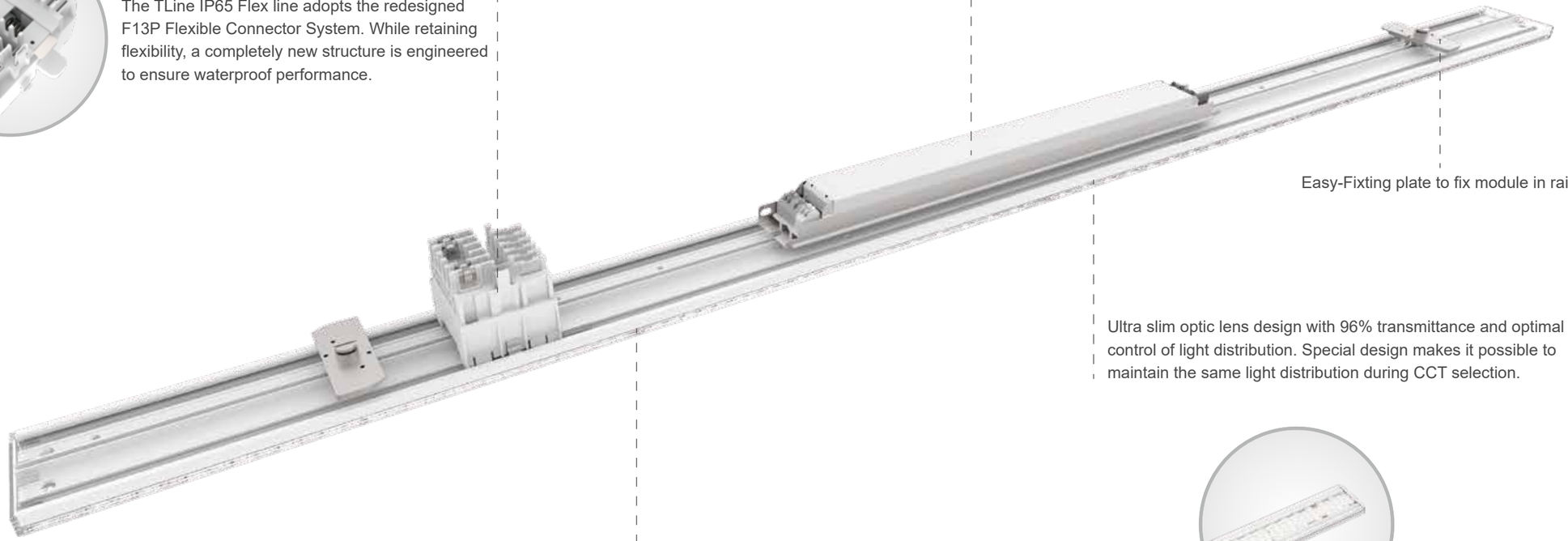
Luminaire Module

Features



The TLine IP65 Flex line adopts the redesigned F13P Flexible Connector System. While retaining flexibility, a completely new structure is engineered to ensure waterproof performance.

SLine: Advanced electric design, up to 92% efficiency with Tridonic, Osram, and Philips LED drivers. Lumen options from 6000lm to 24000lm, configurable in 500lm steps. Special heat dissipation ensures optimal performance, reaching L80B10@100k hours or L90B20@50k hours at ta:45°C.

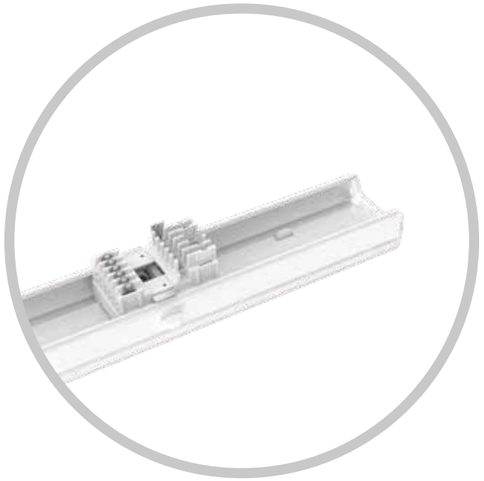


Easy-Fixting plate to fix module in rail.

Ultra slim optic lens design with 96% transmittance and optimal control of light distribution. Special design makes it possible to maintain the same light distribution during CCT selection.

LED : High-quality LED chips from Samsung and Lumileds, SLine provides both 160lm/w as standard and 185lm/w as high efficiency version.

9 beam angles, same appearance



SLine Fixed:

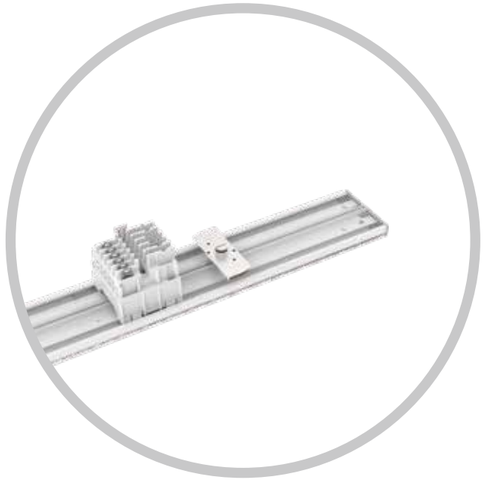
T11 Fixed connector

(Own-developed 11-wire fixed connector)

SLine Flex:

F13 Flexible connector

(Own-developed 13-wire flexible connector)



TLine:

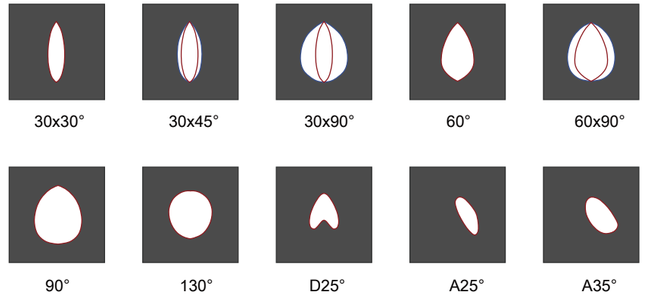
F13P Flexible connector

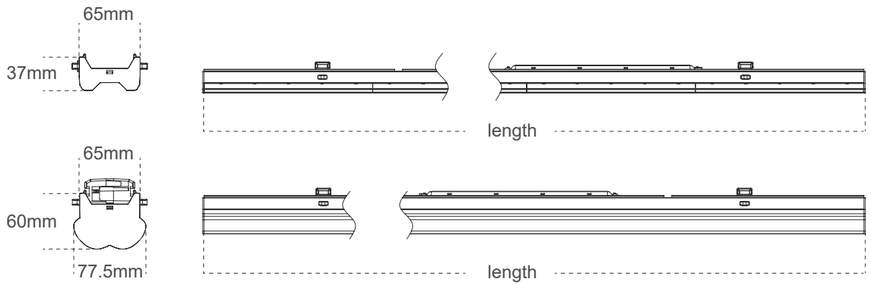
(Own-developed 13-wire flexible connector)

Ta 45℃ | IP 50 | IK 03

Parameters

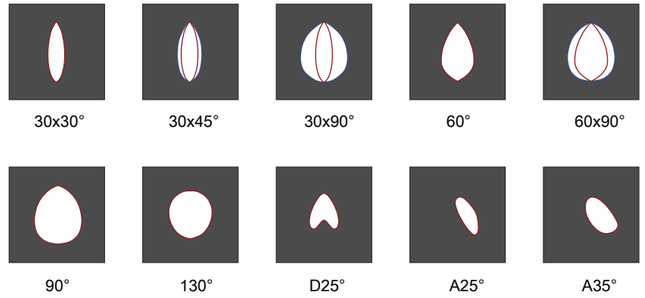
Series	SLine Fixed / SLine Flex
Length	5F(1410mm) / 8F(2253mm) / 10F(2805mm)
Luminous Efficiency	Standard 160 lm/W, HE to 185 lm/W
Lumen output	STD(6400 lm to 24000 lm) / HE(7400 lm to 27750 lm)
Wattage	40W – 150W
Lifespan	100000 h / L80B20 / ta 45°C, 50000 h / L90B10 / ta 45°C
Color	White / Black / Silver
CRI	>80
Beam angles	9 lens optics, 1 opal diffuser
Protection	IP50
UGR value	16-23
Color tolerance	5SDCM / 3SDCM
Control	on/off, DALI, 0-10V

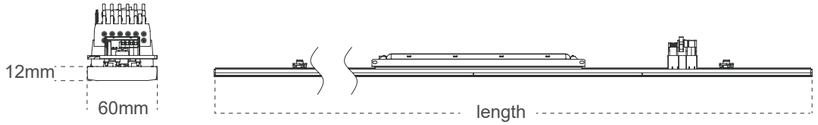




Parameters

Series	TLine IP65 Flex
Length	5F(1410mm) / 8F(2253mm) / 10F(2805mm)
Luminous Efficiency	Standard 160 lm/W, HE to 185 lm/W
Lumen output	STD(6400 lm to 24000 lm) / HE(7400 lm to 27750 lm)
Wattage	40W – 150W
Lifespan	100000 h / L80B20 / ta 45°C, 50000 h / L90B10 / ta 45°C
Color	White / Black / Silver
CRI	>80
Beam angles	9 lens optics, 1 opal diffuser
Protection	IP65
UGR value	16-23
Color tolerance	5SDCM / 3SDCM
Control	on/off, DALI, 0-10V

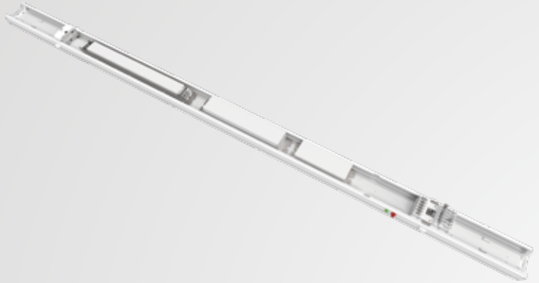




Function Module

Type A Emergency Module

Normal lighting & Emergency lighting

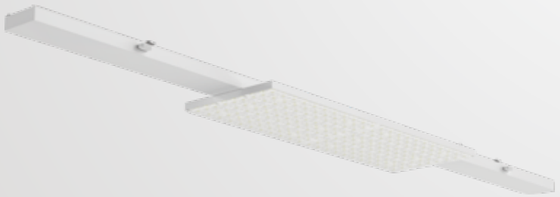


Type B Emergency Module

Emergency lighting only

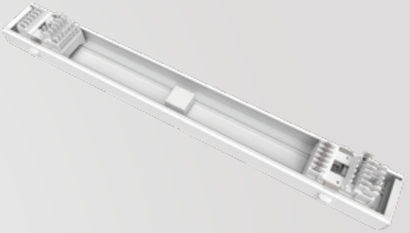
DaisyS Panel Spotlight

Area focus lighting



Sensor Module

Motion + Daylight Sensor / DALI2.0



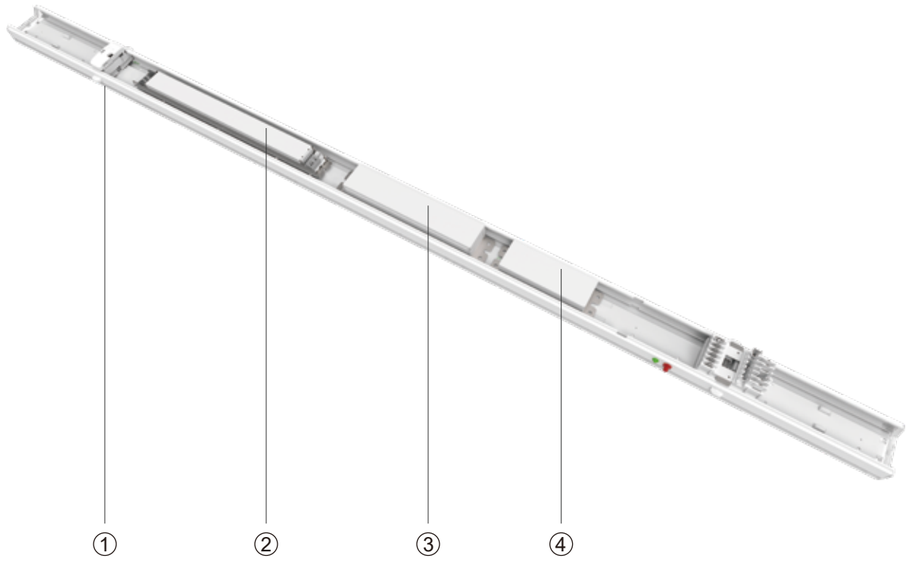
Spotlight Module

Focus Lighting in the system

Customization

Your idea can be integrated into the system smoothly

Emergency Luminaire: Type A



① Based on regular luminaire module

Add battery and emergency driver in regular luminaire module.
No limitation on the wattage of luminaire module.

② LED Driver

LED driver supplies power to LED luminaire as usual.

③ Emergency Driver

Switchable design allows user to power on/off as usual with full lumen output.
When power fails, emergency driver supplies 10W with full luminous efficacy.

④ Li-Pe Built-in battery

Battery supplies power luminaire more than 3 hours when power fails.
High temperature resistance battery: 3600mAh.

Emergency Luminaire: Type B

- Independent module with 4W/500lm/3hours emergency performance.
  Customized lens to reach a wide beam angle.

- Support built-in battery power supply.

Emergency Solution

Built-in Battery

Power supply from battery in module.

Central Power Supply

Power supply from EPS* or UPS* of building.
Terminals inside of module are used to choose channels.

EPS: Emergency Power Supply

UPS: Uninterruptible Power Supply

Built-in Battery + Central Power Supply

Double backups of power supply in two ways.

Built-in Battery Emergency

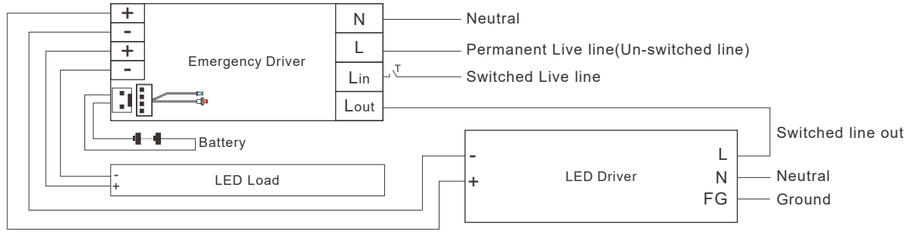
Built-in Battery Supply

Build-in Battery + Emergency Driver (+ LED Driver)

Trunking Rail:	6 wires, 8 wires, 11wires, 13wires
Emergency Brightness:	12w (1920lm)
Emergency Durable:	>3hrs
Emergency Battery:	LiFe high-temp resistant battery
0-100% Charge Time:	24hrs
Emergency Driver Lifespan:	30,000hrs
Emergency Driver Warranty:	3 years
Battery Warranty:	1 year (4 years design life)
Certification:	CE, CB, ENEC

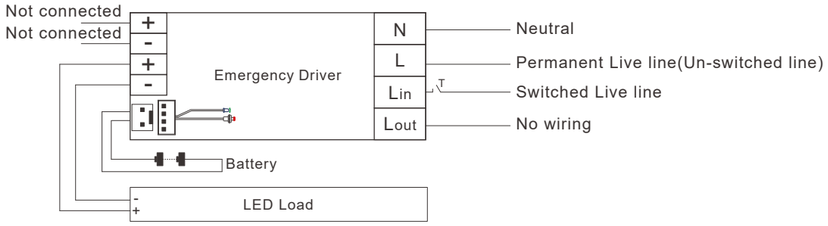
Mode 1: Connection with LED driver

- Normal status: permanent live line is on.
  Luminaire module runs on LED driver and provide full rated wattage. Power is from main supply. Battery is on charge.
- Emergency status: permanent live line is off.
  Luminaire module runs on emergency driver with emergency wattage. Power is from built-in battery.



Mode 2: Connection without LED driver

- Normal status: permanent live line is on.
  Luminaire module runs on emergency driver and remains in standby mode with no lighting. Power is from main supply. Battery is on charge.
- Emergency status: permanent live line is off.
  Luminaire module runs on emergency driver with emergency wattage. Power is from built-in battery.



Central Power Supply

External Central Power Supply

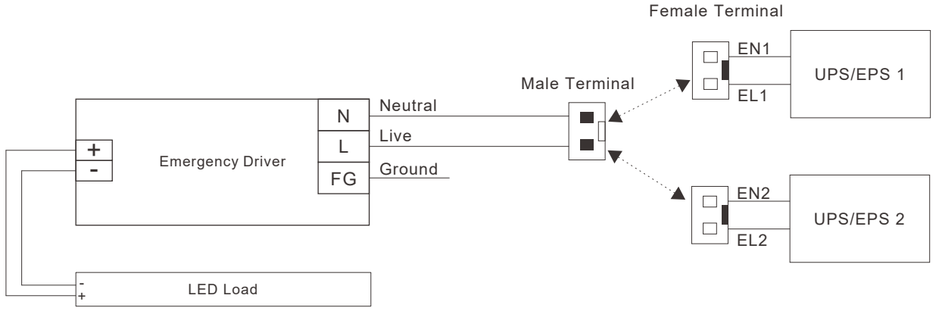
UPS/EPS(Unstoppable/Emergency Power Supply)

Trunking Rail:	11wires, 13 wires
Emergency Brightness:	Full rated lumen output
Emergency Durable:	according to UPS/EPS
Power supply:	UPS/EPS of building usually
Channel:	UPS/EPS usually provides two channels, which are EL1/EN1 and EL2/EN2.

Mode: Use terminals to choose channel from UPS/EPS

- All status:
  Luminaire module runs on LED driver and provide full rated wattage. Power is from UPS/EPS.

- Internal terminals
  UPS/EPS usually has two channels: EL1/EN1 and EL2/EN2.
  We provide three groups of instant terminals inside of module. Customer can decide what the channel they would like to connect to each module.



DaisyS Panel Spotlight

Dimension: L1129*W190*H36 (mm)

30/40/45/50/55/60/65/70/75/80w (DIP Adjustable)

130lm/w CRI >80 SDCM<5

3000K 4000K 5000K 5700K 6500K

Beam Angle

Sharp Beam Narrow Beam Wide Beam Extra Wide Beam Double Asymmetric

Ironman

15w / 30w / 45w

100lm/w CRI >90 SDCM<3

Beam Angle: 10° - 60° (Adjustable)

2700K 3000K 3500K 4000K

Beam Angle

Sharp Beam ~ Narrow Beam ~ Wide Beam

Function Module

Stfeed with Sensor

- Wires: 7 / 8 / 11, 13 Wires
- Function: Sensor / Feed in power supply

Stbox with Sensor

- Wires: 2 Wires
- Function: Sensor

Endbox with Sensor

- Wires: 2 Wires
- Function: Sensor

Endfeed with Sensor

- Wires: 7 / 8 / 11, 13 Wires
- Function: Sensor / Feed in power supply

Sensor Module

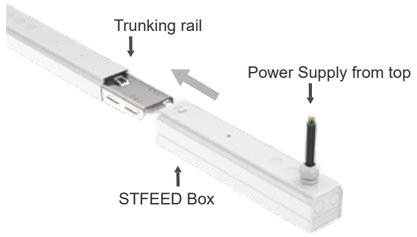
The sensor module can be customized to be any length.

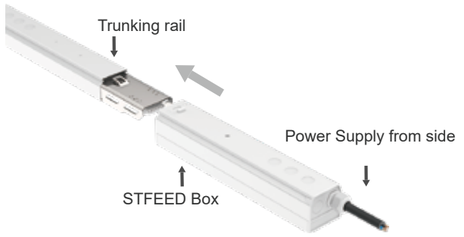
Function Module

STFEED Box - Start Feed Box

Dimension: L400*W65*H60mm

which can be installed from the side of end cap or top
It can be used in the front parts of Wiring from the Linear System.

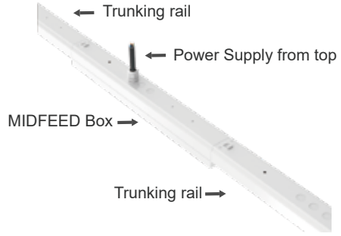




MIDFEED Box - Middle Feed Box

Dimension: L700*W65*H60mm

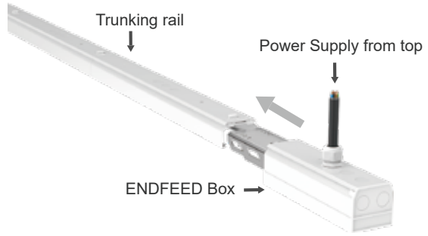
which can be installed from top.
It can be used in the middle parts of Wiring from the Linear System.

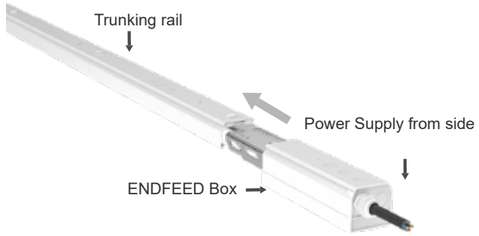


EndFEED Box - End Feed Box

Dimension: L225*W65*H60mm

which can be installed from the side of end cap or top
It can be used in the end parts of Wiring from the Linear System.

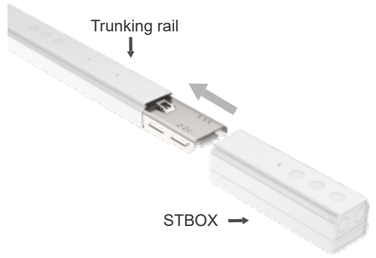


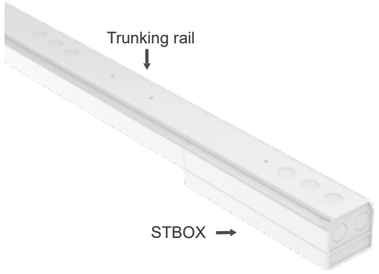


STBox - Start Empty Box(no wire)

Dimension: L225*W65*H60mm

It cannot input wires, which is used for the front parts protection of Linear system.





Wiring from the End

- Method 1: Stbox + Endfeed

Note

Easy installation, but the Stbox & Endfeed is nonluminous.

- Method 2: Endcap & Terminal Block + Endcap
  (For SLine Fixed only)

Note

More complex installation, whole line is luminous.

Wiring from the Start

- Method 3: Stfeed + Endcap

Note

Stfeed combines the function of Endfeed and Stbox,
but it is nonluminous.

Wiring from the Middle

- Method 4: Stbox or Endcap + Midfeed + Endcap

Note

Any part can be wired except the front and end.

Accessory

Surface Mounted Kits A

Thickness: 0.5mm
Size: L53*W36*H15mm
15mm distance to the back of trunking rail

Suspension Kit with wire

Material: Stainless steel
Wire Diameter: 1.5mm
Wire Length: 2m / Customizable length
3m Max distance between two suspension points

Endcap

Print customer’s logo.
Input wires through holes to connect power

Blank cover (Aluminum)

For covering the trunking rail which has no luminaire

Surface Mounted Kits B

Thickness: 0.5mm
Size: L53*W36*H35mm
35mm distance to the back of trunking rail

Suspension Kits with Pigtail Hook & Chain

Material: Stainless steel
Diameter: 6mm (Hook) / 4mm (Chain)
Chain Length: 2m / Customizable length
3m Max distance between two suspension points

Terminal Block (For SLine Fixed only)

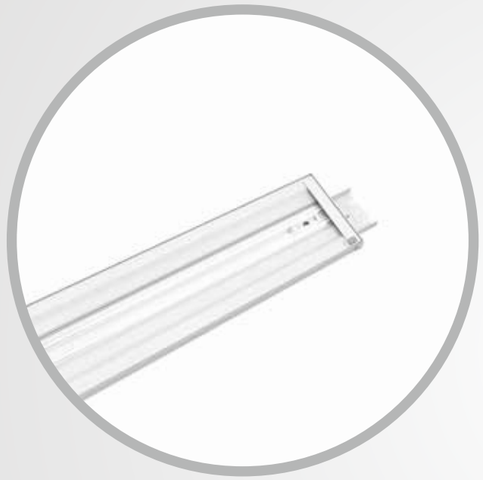
For connection with input wires from the back of trunking rail

Blank cover (PVC)

For covering the trunking rail which has no luminaire

ULine

- IP20
- For retrofit project
- Luminaire modules only
- Compatible with traditional trunking



NLine

- IP23
- Individual luminaires
- Replacable LED driver and cover
- Wire connectable
- Two optional types of wiring:
  by Wieland connector or BJB connector

ELine

- IP20
- Common lens
- 3-row led strip

CLine

- IP50
- Lower UGR
- UGR<19(CLine@G2)

UGR <19 | Ta 45℃ | IP 50 | IK 05

ULine Parameters

Dimension: H65 * W34mm (Lens) / H76 * W57mm (PC Cover)

5F(1525mm): 40 ~ 80w　　10F(2935mm): 80 ~ 150w

160lm/w　　CRI>80(Optional: >90)

Ta = 45℃　　IP20

5 Years Warranty

UGR < 19　　DALI2.0(DT8)

3000K 4000K 5000K 5700K 6500K

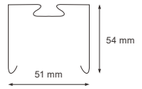
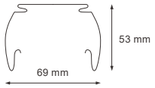
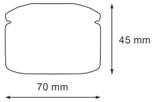
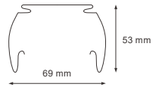
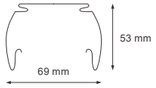
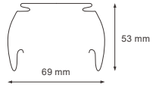
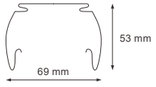
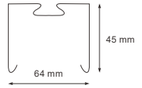
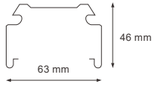
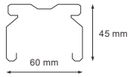
Beam Angle

30°	60°	A25°	25°/25°	90°	130°
Sharp Beam	Narrow Beam	Single Asymmetric	Double Asymmetric	Wide Beam	Flat Wide Beam

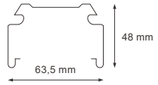
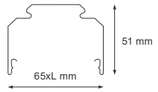
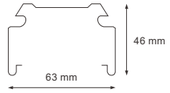
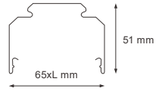
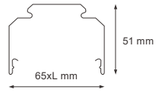
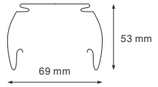
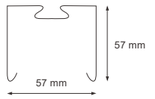
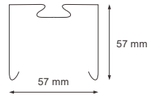
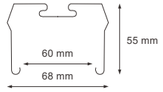
Locker bar Assembly Assembly Locker bar

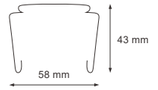
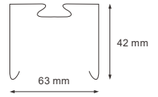
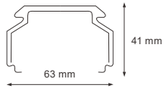
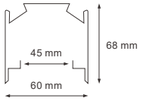
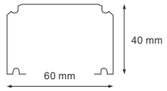
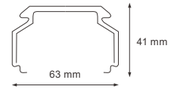
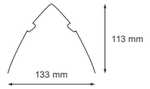
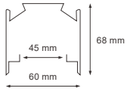
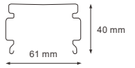
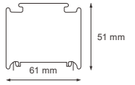
Locker bar Assembly Assembly Locker bar

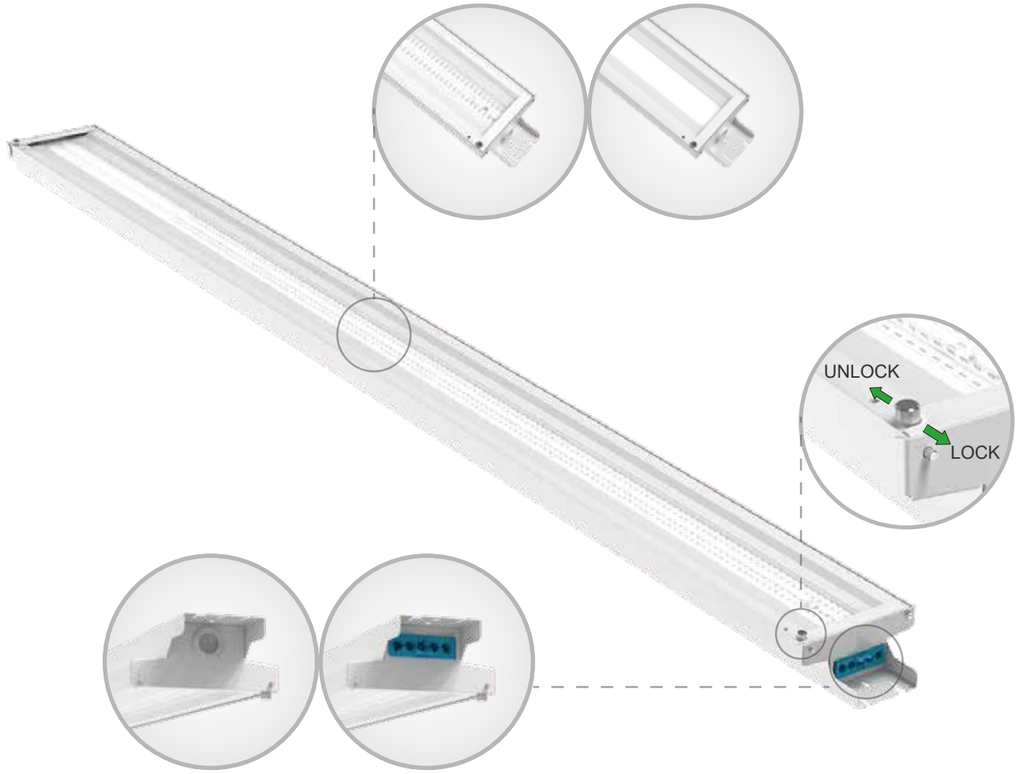
Traditional Trunking List (Compatible)

No.	Brand	Model	Drawing	No.	Brand	Model	Drawing
1	AEG	Gealux-TS XX		7	Kandem	SV70, SV75	
2	AEG	Maxos		8	LiteLicht	Q-Rail Q-TS,	
3	Antaris	Lichtbandsystem		9	Litec	N/A	
4	ClickLUX Tragschiene	701501880016 703002880017 704503880018		10	Ludwig	TR50W	
5	Fluora	Nini-Fix		11	Newlec	HSDT	
6	Fluolite	TRZ		12	Philips	Maxos TL5	

Other Series

No.	Brand	Model	Drawing
13	Philips	Maxos TL-D	
14	Philips	TTX400	
15	Regent	Traq	
16	Regiolux	SDT XX	
17	Ridi	VLG XX	
18	Ridi	VLT XX	
19	RZB	Planos	
20	Siemens	5LS	
21	Siemens / Siteo	5LJ80 XX	
22	Siteco	DUS	

No.	Brand	Model	Drawing
23	Siteco	Modario	
24	Thorn	98287	
25	Trilux	07650 XX	
26	Trilux	218120 (7761/7861)	
27	Trilux	7910X/7920X	
28	Trilux	07690 XX	
29	Trilux	TXA XX	
30	Trilux	7770	
31	Zumtobel	ZX1	
32	Zumtobel	ZX2	



UGR <19 | Ta 45℃ | IP 50 | IK 05

NLine Parameters

Dimension: H50 * W117.6mm (Lens)

4F(1250mm): 40 / 60w 5F(1550mm):80 / 100w

160lm/w CRI>80(Optional: >90)

Ta = 45℃ IP23

BJB connector + Gromet / Wieland connector

5 Years Warranty

UGR < 19 DALI2.0(DT8)

3000K 4000K 5000K 5700K 6500K

Beam Angle

60° Narrow Beam

90° Wide Beam

110° Extra Wide Beam

Ta 45℃ | IP 23 | IK 05

ELine Parameters

Dimension: H77 * W65 (mm)

2F(576mm): 16 ~ 28w 5F(1436mm):36 ~ 72w

130lm/w CRI>80(Optional: >90)

Ta = 45℃

SMD5630 / SMD2835

UGR < 25

5 years warranty

DALI2.0(DT8)

3000K 4000K 5000K 6000K

Beam Angle

30°	30° x 90°	60°	90°	25°/25°	110°	120°
Sharp Beam	Narrow Beam	Narrow Beam	Wide Beam	Double asymmetric	Extra Wide Beam	Extra Wide Beam

Ta 45℃ | IP 50 | IK 05

CLine Parameters

Dimension: H77 * W65 (mm)

2F(567mm): 16 ~ 32w 5F(1410mm):40 ~ 80w

10F(2805mm): 80 ~ 150w

160lm/w CRI>80(Optional: >90)

Ta = 45℃ IP50 , IK05

SMD5630 (CLine G1) SMD2835 (CLine G2)

UGR < 25 (CLine G1) UGR < 19 (CLine G2)

5 years warranty

DALI2.0 (DT8)

3000K 4000K 5000K 5700K 6500K

Beam Angle

30°	60°	A25°	25°/25°	90°	130°
Sharp Beam	Narrow Beam	Single Asymmetric	Double Asymmetric	Wide Beam	Flat Wide Beam

Note