

CoreShine | LED Linear Lighting System

LED Linear Lighting System



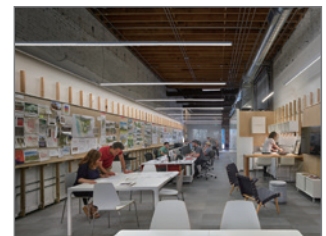
35W / 40W / 45W / 50W / 55W / 60W / 65W / 70W optional
DALI / 1-10V / DIM switch dimmable optional
Sharp / narrow / wide / flood / flat / asymmetric / double asymmetric
5 / 8 / 12 wires trunking rail
Daylight sensor, motion sensor
L , T , X node connector
160LM / 180LM per watt
DC emergency / central safety emergency supply / built-in battery supply
Cord / chain / rod / surface mounted / mounting clip
2700K / 3000K / 3500K / 4000K / 5000K / 5700K / 6500K
600mm / 1200mm / 1500mm / 2400mm / 3000mm / 4500mm

LED Linear Lighting System



Application

Commercial-Industrial-Warehouse-Other indoor lighting



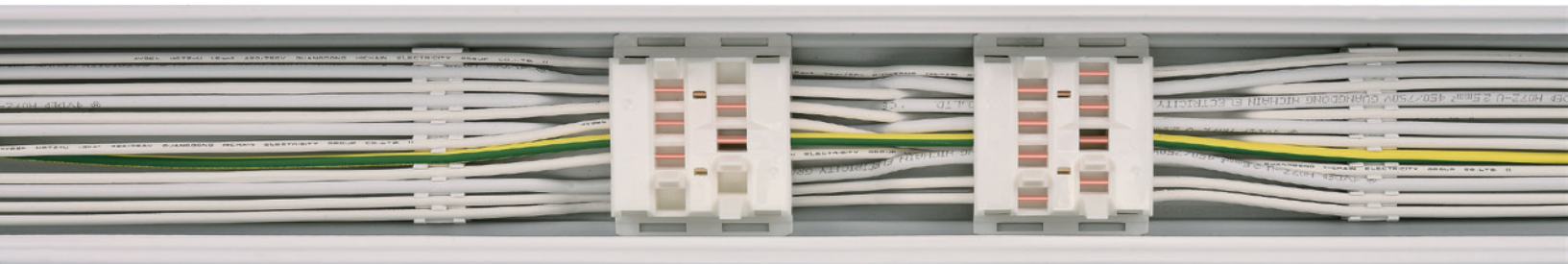
TRUNKING RAIL



- 3-phase pre-selection via moving luminaire male connector pin to right or left to install in the rail
- Trunking rail as standard with 5, 8 or 12-core through-wiring with 2.5mm² cable for power supply and 1.5mm² cable for dimming control.
- The maximum current is 16A, allowing 70pcs of 1500mm 50W in one serial row with 220VAC power supply
- Separate power supplies, dimming or emergency supply can be integrated
- Electrical feed possible in sideward or end area of a trunking rail arrangement via special trunking rail element
- Trunking rail modules with pre-assembled connectors
- Wide distances between suspension points to 3m with self-supporting connector elements
- Simple mounting of trunking rail elements with pre-assembled connectors with integral plug-in system (electrical and mechanical connection)
- Flexible electrical feed-in and feed-out points

Wiring Information

5/8/12 wiring are available



Mode	Function Description						Description Of The Wire											
	3 phase	DALI	1-10V	Batt	EMG1	EMG2	1	2	3	4	5	6	7	8	9	10	11	12
5-core trunking rail :																		
1	✓							L1	N		L2		PE		L3			
8-core trunking rail :																		
2	✓		✓	✓			CHR	L1	N		L2		PE		L3	DIM+	DIM-	
3	✓	✓		✓			CHR	L1	N		L2		PE		L3	DA/L	DA/N	
4	✓			✓	✓		CHR	L1	N		L2		PE		L3	EL1	EN1	
12-core trunking rail :																		
5	✓		✓	✓	✓	✓	CHR	L1	EL1	N	EN1	L2	EN2	PE	EL2	L3	DIM+	DIM-
6	✓	✓		✓	✓	✓	CHR	L1	EL1	N	EN1	L2	EN2	PE	EL2	L3	DA/L	DA/N
7	x2		✓	✓			CHR	L1	L4	N1	N2	L2	L5	PE	L6	L3	DIM+	DIM-
8	x2	✓		✓			CHR	L1	L4	N1	N2	L2	L5	PE	L6	L3	DA/L	DA/N

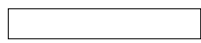
S Line

LED Linear Lighting System

A continuous-row LED lighting system could be created only by a trunking unit and a LED luminaire. It appears as a consistent continuous-row system, without any visual interruption or different reflectors. The luminaire and trunking rail are perfectly matched to each other.



Housing Colors



White
RAL 9016



Black
RAL 9017

DIP Switch Driver

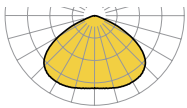
All drivers are DIP SWITCH type. Power can be selectable by setting the buttons in different position, which is more convenient for customers to make inventory.



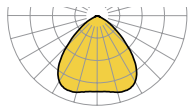
OPTICS



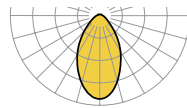
FD-120°
Extremely wide



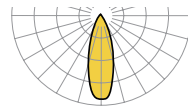
WD-90°
wide



NR-60°
narrow



SP-30°
extremely narrow



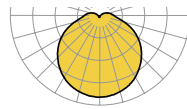
LS / RS
asymmetrical



DS
Double asymmetric



FF
Diffuse



Lenses Module



Central.Line.Optic



Individual.Lens.Optic



Diffusers

EMERGENCY LIGHTING



External emergency with Constant current(On/off) LED driver

Luminaires with Constant current(on/off) led driver connect to the central backup battery or UPS through EL, EN. When no power is detected, the luminaires are off; when power is detected, the luminaires are 100% brightness.

EL/EN	Lamp Brightness
OFF	0%
ON	100%

L/N or EL/EN	Lamp Brightness
OFF	0%
AC 220V ON	100%
DC 220V ON	15%

External emergency with DALI driver

Luminaires with DALI driver connect to the mains electricity, central backup battery or UPS. When no power is detected, the luminaires are off; when AC power is detected, the luminaires are on 100%; when DC power is detected, the luminaires are on 15%.

Internal emergency with built-in battery pack

Different combination of emergency driver and battery pack are available. When CHR detects that there is power, luminaires are on 100%; when no power detected, luminaires will work according to the selected emergency driver. Different emergency drivers and battery packs can be freely combined as below.

L/N	L-CHR/N-CHR	Battery	Emergency driver power	Power when in emergency	Duration time
OFF	ON	/	/	/	0%
OFF	OFF	1800mAh	6W	6W	3 hours
OFF	OFF	3600mAh	12W	12W	3 hours
OFF	OFF	3600mAh	6W	6W	6 hours

FUNCTION MODULES



Spotlight Module



Sensor Module



Exit Sign Module



Wireless Sensor

ACCESSORIES

Power Feed



Feed In Box



Feed In Connector

Mounting Kit



Suspension Cord



Suspension Rod



Suspension Chain



Surface Mounted



Mounting Clip

Node Connector



L Node Connector



T Node Connector



X Node Connector

Closure



End Cap



Blank Cover

Order Number List - Trunking Rail

Category	Length	Option	Wire Quantity	Color
	X	X	X	X
CFT	06	N	05	WH
	09	F	08	BK
	12	T	12	SV
	15			
	24			
	30			
	36			
	45			

Code Definition

CFT = CoreShine Steel trunking rail

Length:

06 = 600mm
 09 = 900mm
 12 = 1200mm
 15 = 1500mm
 24 = 2400mm
 30 = 3000mm
 36 = 3600mm
 45 = 4500mm

Option:

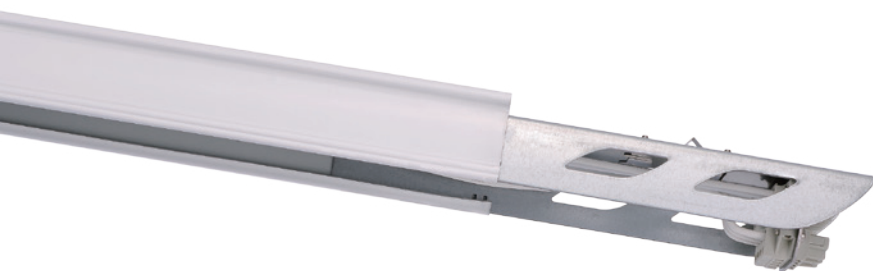
N = normal rail
 F = feed-in rail
 T = terminal rail

Wire quantity:

05 = 5 wires
 08 = 8 wires
 12 = 12 wires

Color:

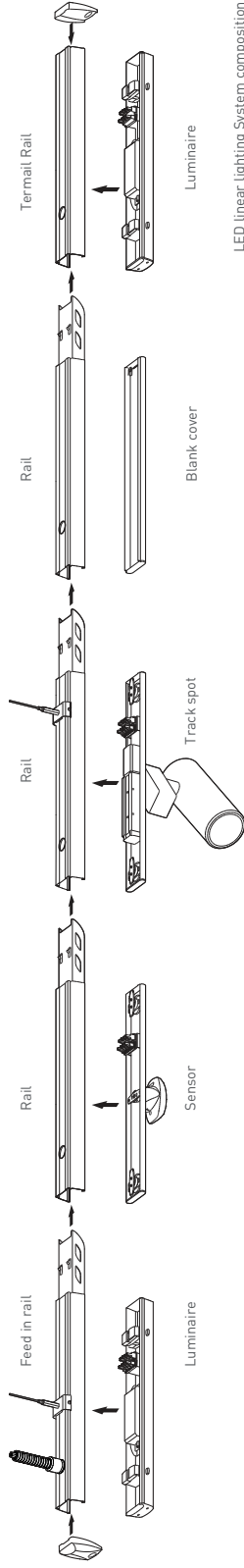
WH = white
 BK = black
 SV = silver



e.g.: CFT-15F-05WH

1.5m linear trunking rail, feed-in, 5 wires, white color

LED Linear Lighting System | S Line



LED linear lighting System composition

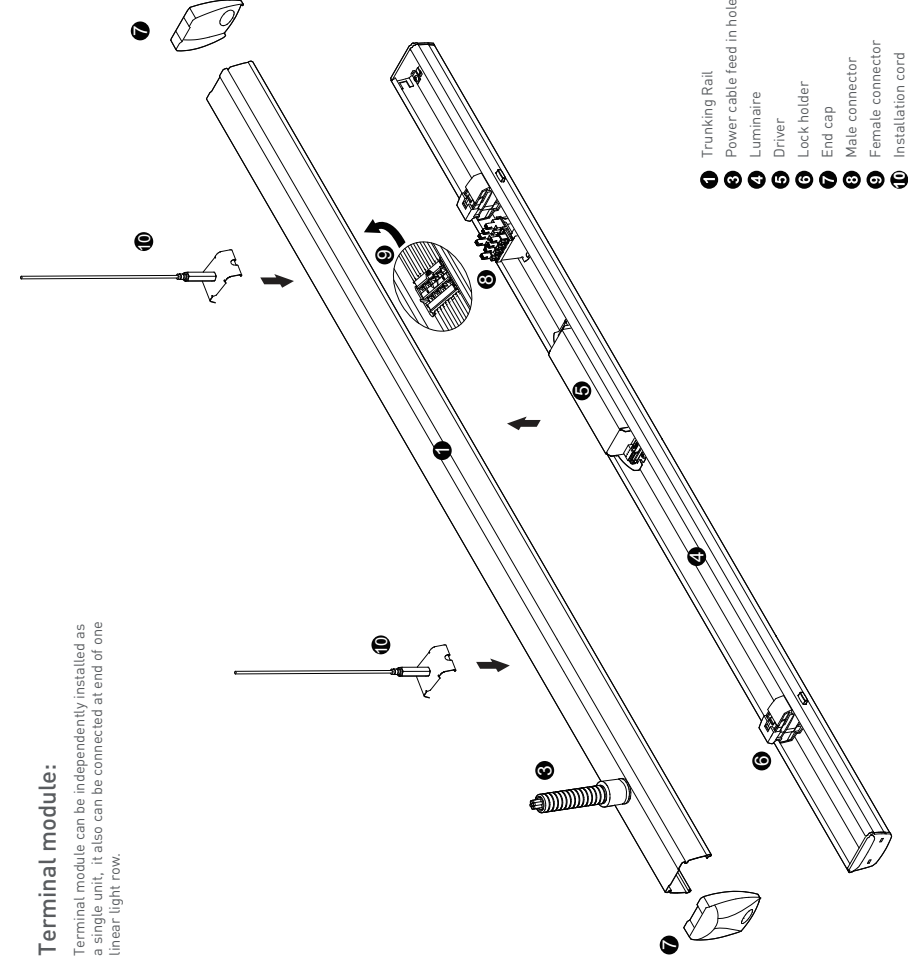
Safety notes:

Installation should be performed only by qualified electrician .

- Make sure no voltage while installation .
- Connect cable wires according to wire labeling.
- Max current should not exceed 16A in one power feed in circuit.

Terminal module:

Terminal module can be independently installed as a single unit, it also can be connected at end of one linear light row.

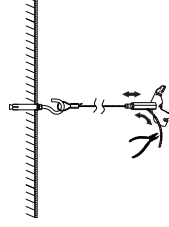
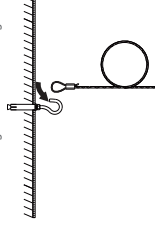


Step 1
Mounting Suspension

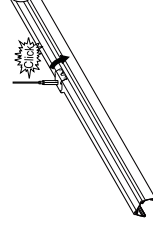
Drill a hole on ceiling



Fix mounting hook into ceiling

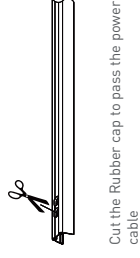


Adjust length of suspension cord:
a. press down Hexagon bolt;
b. Pull in/out cord to adjust length

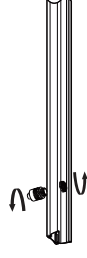


Click in mounting clip into trunking rail

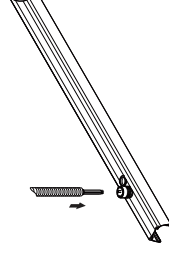
Step 2
Connecting Power Supply



Cut the Rubber cap to pass the power cable



Screw in the conduit gland

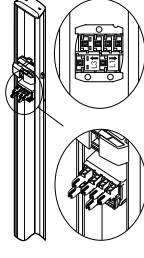


Put in conduit with cable inside and pull up conduit gland to lock

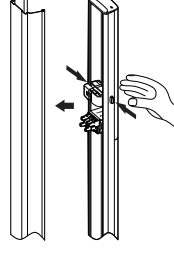


Connect wires according labeling on wires to feed in connector then connect to connector in trunking rail

Step 3
Mounting Luminaire



Slide knob to select phase L1/L2/L3



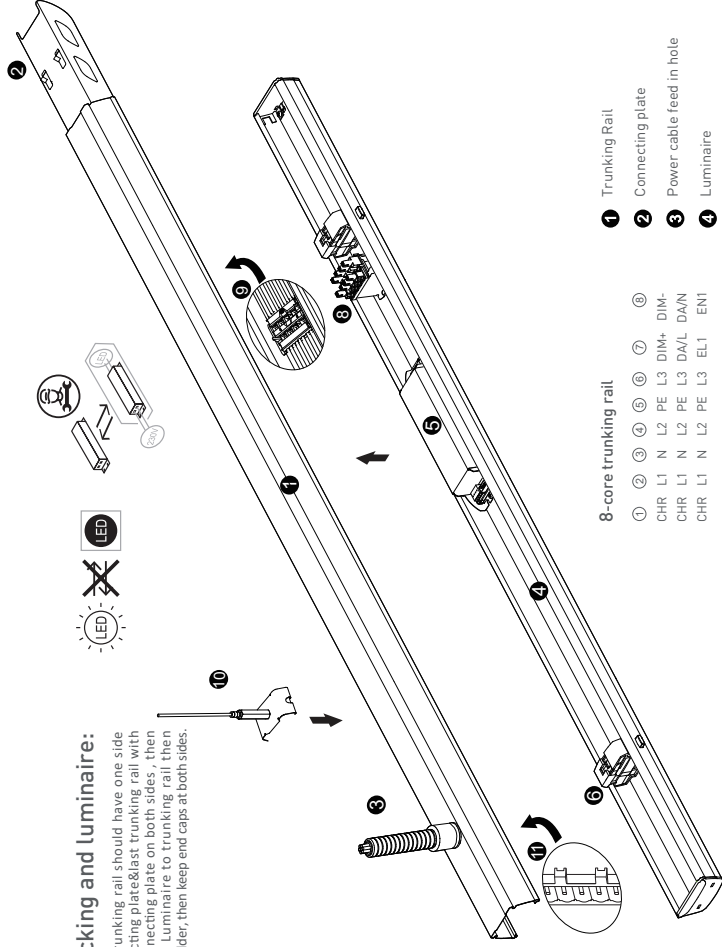
Make sure male & female connectors in right position then fix the luminaire to trunking rail



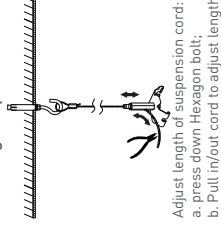
Push the sliding lock to lock the luminaire to trunking rail

Tracking and luminaire:

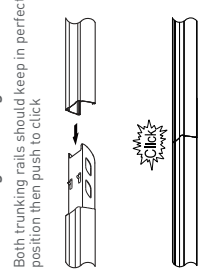
First trunking rail should have one side connecting plate & last trunking rail with no connecting plate on both sides, then fix the Luminaire to trunking rail then lock holder, then keep end caps at both sides.



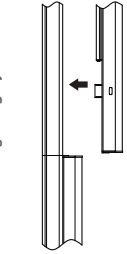
Step 1 Mounting Suspension



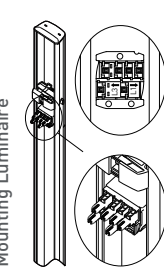
Step 3 Connecting Trunking Rail



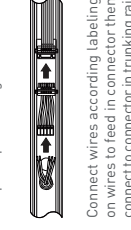
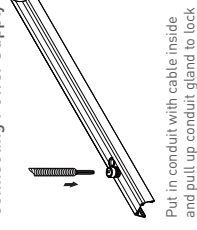
Step 5 LED linear lighting system



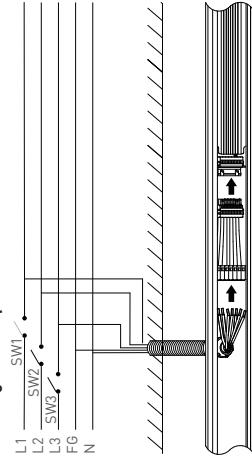
Step 4 Mounting Luminaire



Step 2 Connecting Power Supply

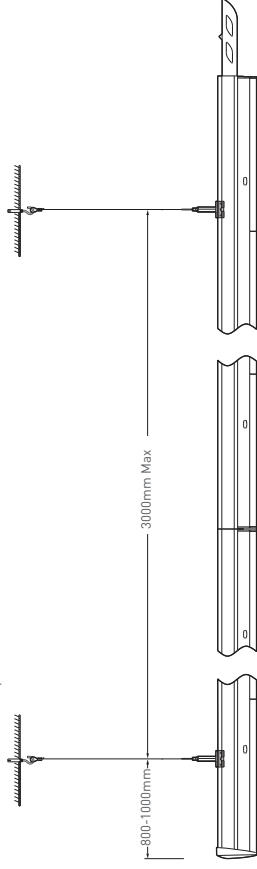


Wire diagram of triple circuits function

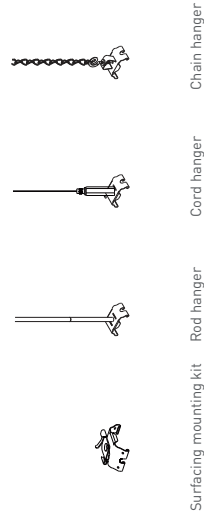


Pendant and mounting installation

Starting installation distances point should be 800 mm to 1000 mm, then in between 1st & 2nd point should be 3000 mm max



Four options for installation



Order Number List - Luminaire

Category	Length	Power	CCT	Beam			Function		
				Angle	Wire	Color			
CFL-	X	X	X	X	X	X	X	X	X
	12	30-	27	SP-	05	WH-	E1	B1	DA
				NR	08	BK	E2	B2	10
				WD	12	SV			
	15	35	40	FD					
				DS					
				RS					
	24	70	57	LS					
				FF					
	30	70	70	FT					

e.g.: CFL-1550-40NR-08WH-DA
1.5m linear luminaire, 50W, 4000K, narrow angle,
8 wires, white color, DALI dimming.

Code Definition

CFL = CoreShine Steel luminaire

Length:

12 = 1200mm
15 = 1500mm
24 = 2400mm
30 = 3000mm

Power:

30, 40, 60 = 30W, 40W, 60W
35, 50, 70 = 35W, 50W, 70W

CCT:

27 = 2700K
30 = 3000K
35 = 3500K
40 = 4000K
50 = 5000K
57 = 5700K
65 = 6500K

Beam angle

SP = sharp
NR = narrow
WD = wide
FD = flood
DS = double asymmetric
RS / LS = right / left asymmetric
FF / FT = flat frosted / transparent

Wire quantity:

05 = 5 wires,
08 = 8 wires,
12 = 12 wires
Color of the housing:
WH = white shell
BK = black shell
SV = silver shell

Function:

E1 = 6W emergency power supply
E2 = 12W emergency power supply
B1 = 1800mAh emergency battery pack
B2 = 3600mAh emergency battery pack
DA = DALI dimming
10 = 1-10V dimming



Order Number List - Node Connector - Feed-in Box

Category	Model	Wire Quantity	Color
CFN -	BF	X	X
		05	WH
		08	BK
		12	SV

Code Definition

CFN=Coreshine Steel node connector

Model:

BF= Feed-in box

Wire quantity:

05= 5 wires

08= 8 wires

12= 12 wires

Color:

WH= white

BK= black

SV= silver



e.g.: CFN-BF-05WH
Feed-in box, 5 wires, white color

Order Number List - L, T, X Node Connector

Category	Model	Option	Wire Quantity	Color
CFN -	L	X	X	X
		01	None	WH
		10	05	BK
		100	08	SV
		X	010	12
		001		
		1000		

Option:

01=feed-in by the left side; feed-out by right side

10=feed-in by the right side; feed-out by left side

010=one side for feed-in; two sides for feed-out

1000=one side for feed-in; three sides for feed-out



L Node Connector



T Node Connector



X Node Connector

e.g.: CFN-L01-05WH
L-node connector, feed in by the left side and feed out by right side, 5 wires, white color

S Line
LED Linear Lighting System

Luminaire Characteristics / Standard Version / 35W/50W/70W

Product Description

Tool free installation
Continuous line
Plug and play

Application

Commercial
Industrial
Warehouse



Model No.	CFLS-1535	CFLS-1550	CFLS-1570
Outer dimensions	1500*76*70mm	1500*76*70mm	1500*76*70mm
Input power	35W	50W	70W
Dip switch to	35/40/45/50W	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240VAC	220 - 240VAC	220 - 240VAC
Input current	0.2A max	0.3A max	0.4A max
Mains frequency	50/60HZ	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9	0.9
Lumen	6300lm	9000lm	12600lm
Efficiency	180lm/W	180lm/W	180lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra	80Ra	80Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
Beam Angle	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF
Dimming	NO	NO	NO
Dimming range	/	/	/
Flicker percent	≤5%	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4	≤0.4
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 80%	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C

S Line
LED Linear Lighting System

Luminaire Characteristics / Dali 2.0 version / 35W/50W/70W

Product Description

Tooling free installation
Continuous line
Plug and play

Application

Commercial
Industrial
Warehouse



Model No.	CFLS-1535-DA	CFLS-1550-DA	CFLS-1570-DA
Outer dimensions	1500*76*70mm	1500*76*70mm	1500*76*70mm
Input power	35W	50W	70W
Dip switch to	35/40/45/50W	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240VAC	220 - 240VAC	220 - 240VAC
Input current	0.2A max	0.3A max	0.4A max
Mains frequency	50/60HZ	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9	0.9
Lumen	6300lm	9000lm	12600lm
Efficiency	180lm/W	180lm/W	180lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra	80Ra	80Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
Beam Angle	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF
Dimming	DALI DT6/switch	DALI DT6/switch	DALI DT6/switch
Dimming range	1% - 100%	1% - 100%	1% - 100%
Flicker percent	≤5%	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4	≤0.4
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 80%	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C



S Line

LED Linear Lighting System

Electrical Characteristics | Output Selectable Driver | 50W/70W

Product description

Constant current LED driver
 Lifespan: 50,000h
 5 years warranty

Properties

Over voltage protection with automatic restart
 Overload protection
 Short-circuit protection with automatic restart
 Surge voltage: 2.5KV



Model No.	CSD2U-50	CSD2U-70
Input voltage	220 - 240VAC	220 - 240VAC
Input current	0.33A max	0.47A max
Mains frequency	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%
Inrush current	28A@110us	30A@110us
Turn on time (output)	≤1s	≤1s
Output voltage	55 - 82V	55 - 82V
Output current	0.43/0.49/0.55/0.61A	0.69/0.73/0.79/0.85A
Max output power	50W	70W
Efficiency (at 230V,50Hz,full load)	90%	91%
Dimming	NO	NO
Dimming range	/	/
Output LF current ripple	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 60°C	-25 - 60°C
Max. Casing temperature Tc	80°C	80°C
Storage temperature Ts	-40 - 85°C	-40 - 85°C
Outer dimensions	280*30*22mm	280*37*31mm

Electrical Characteristics | DALI DT6 Dimming Driver | 50W/70W

Product description

Constant current LED driver
Lifespan: 50,000h
5 years warranty

Properties

Over voltage protection with automatic restart
Overload protection
Short-circuit protection with automatic restart
Surge voltage: 2.5KV



Model No.	CSD2H-50-DT6	CSD2H-70-DT6
Input voltage	220 - 240V	220 - 240V
Input current	0.3A max	0.43A max
Mains frequency	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%
Inrush current	25A@120us	30A@110us
Turn on time (output)	≤1s	≤1s
Standby power P _{sb}	≤0.5W	≤0.5W
Output voltage	30 - 40V	30 - 40V
Output current	0.84/0.95/1.07/1.18A	1.3/1.42/1.53/1.65A
Max output power	47W	66W
Efficiency (at 230V,50Hz,full load)	88%	88%
Dimming	DALI DT6/switch	DALI DT6/switch
Dimming range	1% - 100%	1% - 100%
Output LF current ripple	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 60°C	-25 - 60°C
Max. Casing temperature T _c	85°C	85°C
Storage temperature T _s	-40 - 85°C	-40 - 85°C
Outer dimensions	280*32*30mm	360*32*30mm

U-Line | LED Linear Lighting System

LED Linear Lighting System



30w/45w/60w/35w/50w/70w optional

DALI / 0-10V / DIM switch dimmable optional

Narrow / flood / narrow uplighting / flood uplighting

5 / 8 / 12 wires trunking rail

daylight sensor, motion sensor

L , T , X node connector

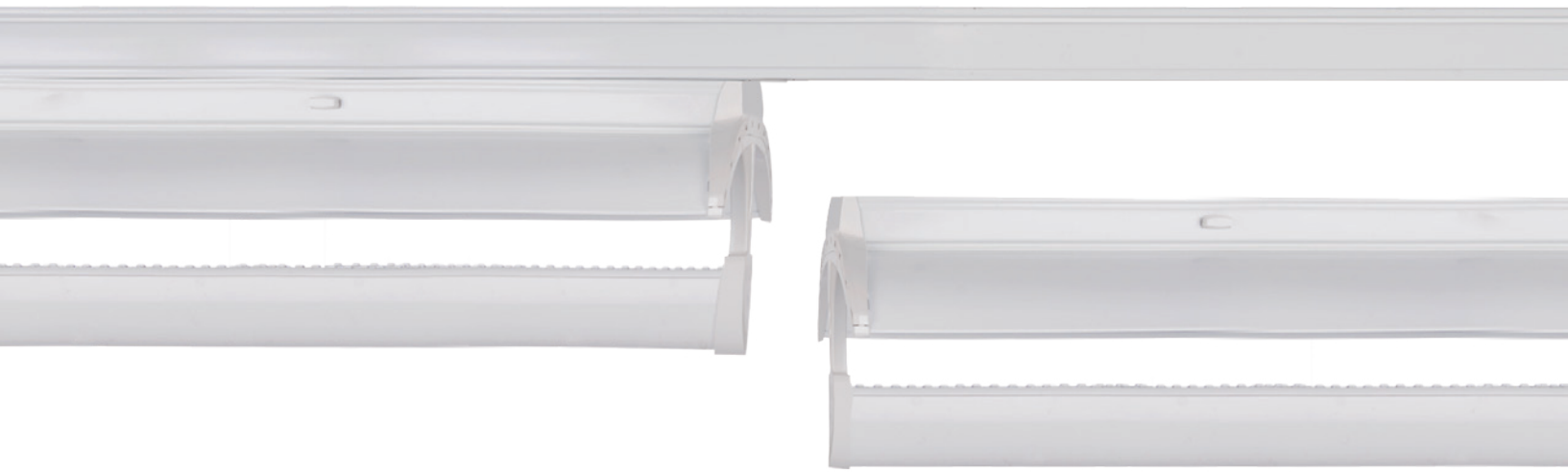
Up to 150LM per watt

2700K / 3000K / 3500K / 4000K / 5000K / 5700K / 6500K

DC emergency/Built-in battery supply /Central safety emergency supply

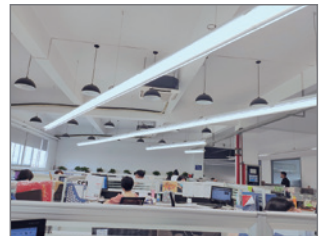
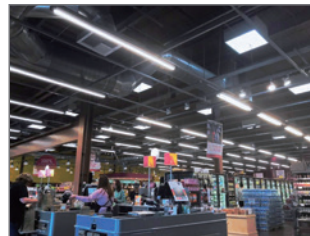


LED Linear Lighting System



Application

Office·Corridor·Industrial·Warehouse·Other indoor lighting



TRUNKING RAIL



The flexible trunking system for challenging lighting demands in all applications.

With fully compatible modular kit, it adapts individually to complex lighting tasks.

It has an 12-pole current conducting section built into its trunking.

This means that the system comes ready equipped to meet tomorrow's needs.

All functions such as power supply, lighting control and connection to emergency lighting are seamlessly integrated into this multifunctional trunking.

Luminaires can be positioned flexibly and the system can be adapted to suit structural alterations at any time.

The trunking rail is simply a matter of replacing or adding lighting modules, light sources or optics as required.

Trunking rail as standard with 5, 8 or 12-core through-wiring with 2.5mm² cable for power supply and 1.5mm² cable for dimming control.

The maximum current is 16A, allowing 70pcs of 1500mm 45W in one serial row 220VAC power supply, up to 100 meters.



U Line

LED Linear Lighting System

135 or 150lm/W

North America

- 1200mm 30W/ 45W / 60W
- 2400mm 60W/90W/ 120W
- Flicker/non-flicker driver optional
- 0-10V driver optional

Europe

- 1500mm 35W / 50W / 70W
- 2400mm 70W / 120W
- Flicker/non-flicker driver optional
- DALI/1-10V/standard driver optional

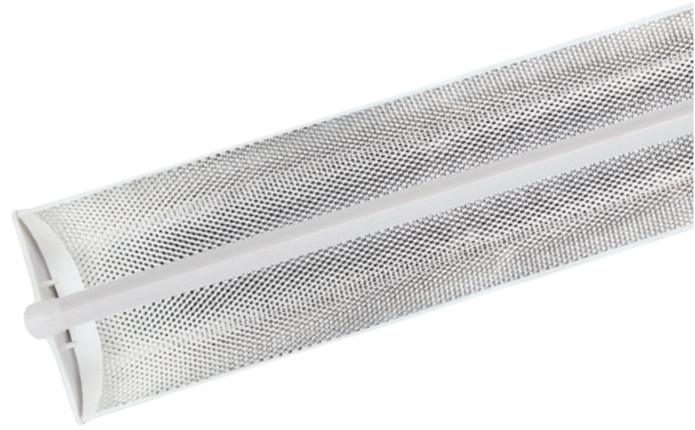
Benefits

- Upward luminescence 10%
- Indirect lighting & unique design
- Flexible solution
- UGR <19

OPTICS

10% of the light upward to the ceiling and 90% reflected onto the floor, with or without uplighting is available.

Unique reflective design, two different reflectors form two different angles.



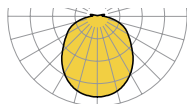
NR-60°
Narrow



Narrow Beam Angle
UGR < 19

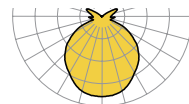


FD-120°
Extremely Wide



Flat Beam Angle
Down 100%
Up 0%

FU-120°
Extremely Wide



Flat Beam Angle
Down 90%
Up 10%

U Line
LED Linear Lighting System



Dimming & Multi-Sensor System

- 3 different dimming system, DALI, 0-10V and DIMswitch
- Not only does it have an integrated microwave sensor for motion detection, but it also has a daylight sensor

Emergency Function

Luminaires can be used as external emergency light by connecting to the central backup battery or UPS.

Luminaires with built-in battery pack as internal emergency light is also available.

Node Connector

- L, T and X Standard Module Node connectors
- Each node connector has diverse of electrical feed-in and feed-out

FUNCTION MODULES



Spotlight Module



Sensor Module



Exit Sign Module



Wireless Sensor

ACCESSORIES

Power Feed



Feed In Box



Feed In Connector

Mounting Kit



Suspension Cord



Suspension Rod



Suspension Chain



Surface Mounted



Mounting Clip

Node Connector



L Node Connector



T Node Connector



X Node Connector

Closure

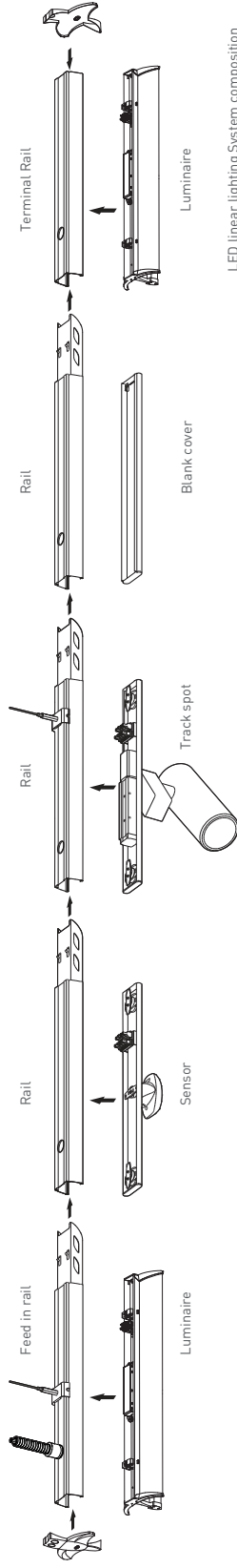


End Cap



Blank Cover

LED Linear Lighting System | U Line

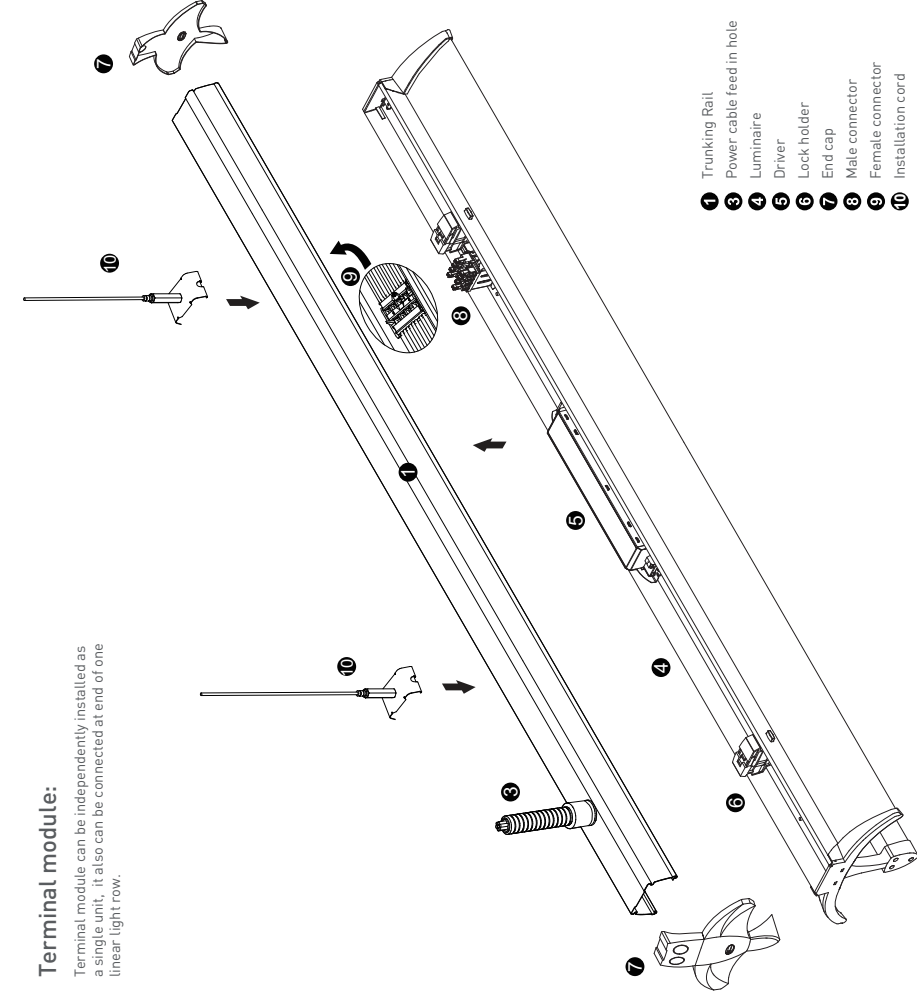


- Safety notes:**
Installation should be performed only by qualified electrician .
- Make sure no voltage while installation .
 - Connect cable wires according to wire labeling.
 - Max current should not exceed 16A in one power feed in circuit.

LED linear lighting System composition

Terminal module:

Terminal module can be independently installed as a single unit, it also can be connected at end of one linear light row.



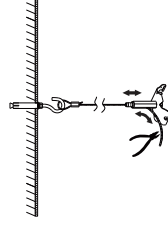
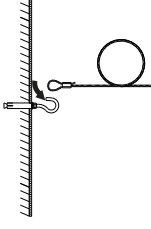
Step 1

Mounting Suspension

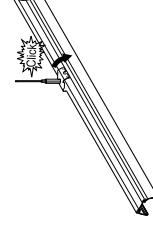
Drill a hole on ceiling



Fix mounting hook into ceiling



Adjust length of suspension cord:
a. press down Hexagon bolt;
b. Pull in/out cord to adjust length



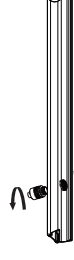
Click in mounting clip into trunking rail

Step 2

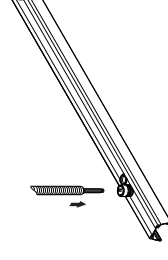
Connecting Power Supply



Cut the Rubber cap to pass the power cable



Screw in the conduit gland



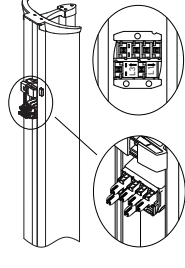
Put in conduit with cable inside and pull up conduit gland to lock



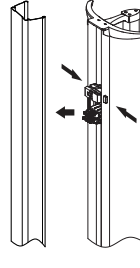
Connect wires according labeling on wires to feed in connector then connect to connector in trunking rail

Step 3

Mounting Luminaire



Slide knob to select phase L1/L2/L3



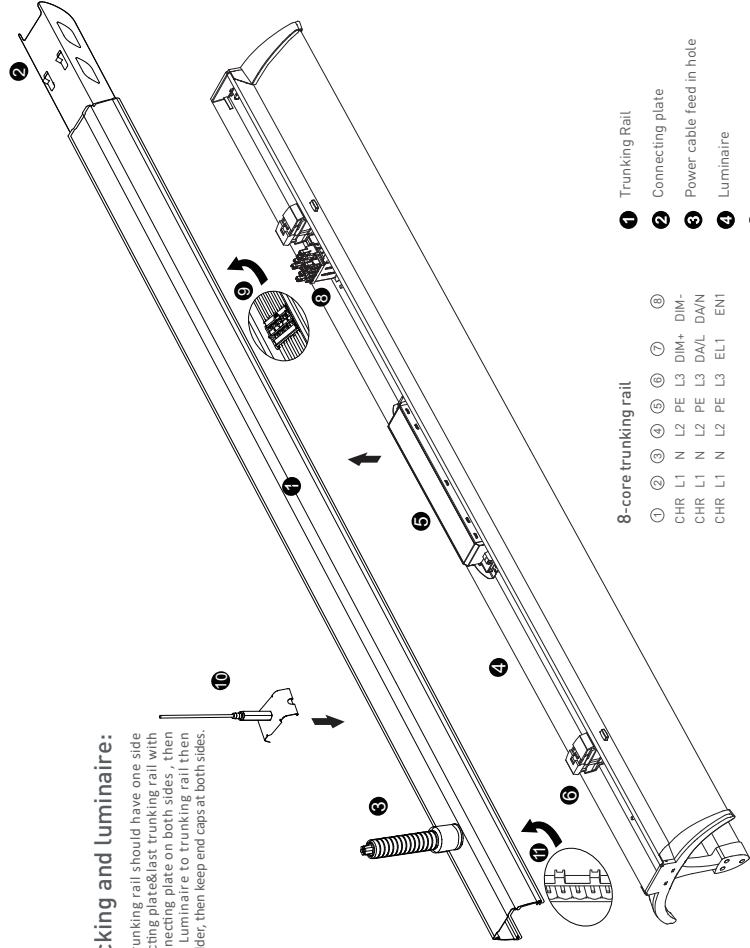
Make sure male & female connectors in right position then fix the luminaire to trunking rail



Push the sliding lock to lock the luminaire to trunking rail

Tracking and luminaire:

First tracking rail should have one side connecting plate& fast tracking rail with the connecting plate on both sides, then fix the luminaire to tracking rail then lock holder, then keep end caps at both sides.



8-core tracking rail

- ① Trunking rail
- ② Connecting plate
- ③ Power cable feed in hole
- ④ Luminaire
- ⑤ Driver
- ⑥ Lock holder
- ⑧ Male connector
- ⑨ Female connector
- ⑩ Installation cord

12-core tracking rail

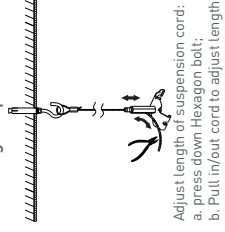
- ① CHR L1 N L2 PE L3 DIM+ DIM- EN1 EN2 EL2
- ② CHR L1 N L2 PE L3 DAL DAWN EL1 EN1 EN2 EL2
- ③ CHR L1 N1 L2 PE L3 DIM+ DIM- L4 N2 L5 L6
- ④ CHR L1 N1 L2 PE L3 DAL DAWN L4 N2 L5 L6

① Definition of 5-core 8-core and 12-core tracking rail

- ① L1 N L2 PE L3
- ② L1 N L2 PE L3
- ③ L1 N L2 PE L3

Step 1

Mounting Suspension

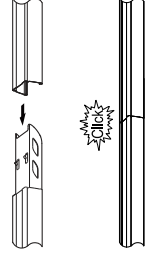


Adjust length of suspension cord:
a. press down Hexagon bolt;
b. Pull in/out cord to adjust length

Step 3

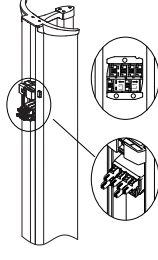
Connecting Trunking Rail

Both trunking rails should keep in perfect position then push to click



Step 4

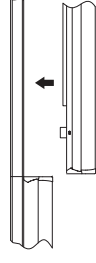
Mounting Luminaire



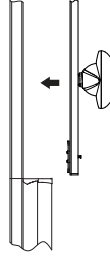
Slide knob to select phase L1/L2/L3

Step 5

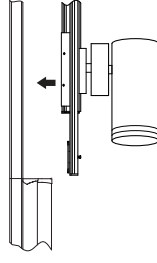
LED linear lighting system



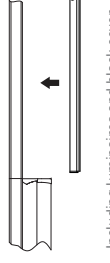
Including luminaires



Including luminaires and sensor

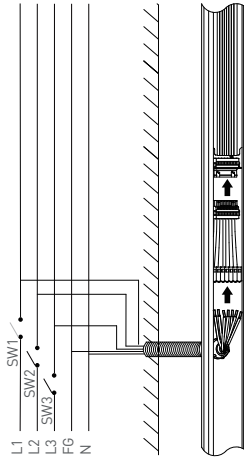


Including luminaires and spotlight



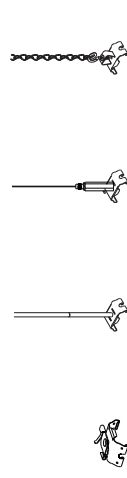
Including luminaires and black cover

Wire diagram of triple circuits function



This Triple Circuits function offers to control lighting ON/OFF by three switches SW1, SW2, SW3 which are connected by live lines L1, L2, L3

Four options for installation



Surfacings mounting kit

Rod hanger

Cord hanger

Chain hanger

Order Number List - U- Line Linear Lighting System

Category	Length	Power	CCT	Beam Angle	Wire	Color	Function		
	X	X	X	X	X	X	X	X	X
CUL-	12(US)	30	27	NR	05	WH	E1	B1	DA
		45	30	FD	08	BK	E2	B2	10
		60	35	NU	12	SV			
	24(US)	60	40	FU					
		90	50						
		120	57						
	15(EU)	35	65						
		50							
		70							
	24(EU)	70							
		120							



Code Definition

CUL = CoreShine Steel Luminaire

Length:

12 = 1200mm

15 = 1500mm

24 = 2400mm

Power:

30, 45, 60 = 30W, 45W, 60W

35, 50, 70 = 35W, 50W, 70W

60, 90, 120 = 60w, 90W, 120W

70, 120 = 70W, 120W

CCT:

27 = 2700K

30 = 3000K

35 = 3500K

40 = 4000K

50 = 5000K

57 = 5700K

65 = 6500K

Beam angle:

NR = narrow

FD = flood

NU=narrow uplighting

FU=flood uplighting

Wire:

05 = 5 wires

08 = 8 wires

12 = 12 wires

Color of the housing:

WH = white shell

BK = black shell

SV = silver shell

Function:

E1 = 6W emergency power supply

E2 =12W emergency power supply

B1 = 1800mAh emergency battery pack

B2 = 3600mAh emergency battery pack

DA = DALI dimming

10 = 1-10V dimming

Luminaire Characteristics | 50W/70W

Product Description

Tooling free installation
Continuous line
Indirect lighting

Applications

Commercial
Industrial
Warehouse
Office



Model No.	CULS-1550/CULS-1550-DA	CULS-1570/CULS-1570-DA
Outer dimensions	1500*183*236mm	1500*183*236mm
Input power	50W	70W
Dip switch to	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240VAC	220 - 240VAC
Input current	0.3A max	0.4A max
Mains frequency	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
Lumen	6750/7500 lm	9450/10500 lm
Efficiency	135/150 lm/W	135/150 lm/W
CCT	2700-6500K	2700-6500K
CRI	80Ra	80Ra
R9	>0	>0
SDCM	<3	<3
Beam Angle	NR/FD/NU/FU	NR/FD/NU/FU
Dimming range	/	/
Flicker percent	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C

Luminaire Characteristics | American Standard Version |30w/45w/60W

Product Description

Tooling free installation
Continuous line
Indirect lighting

Applications

Commercial
Industrial
Warehouse
Office
Corridor



	CULS-1230-10	CULS-2460-10
Model No.	CULS-1245-10	CULS-2490-10
	CULS-1260-10	CULS-24120-10
Outer dimensions	1200*183*236mm	2400*183*236mm
Input power	30/45/60W	60/90/120W
Input voltage	100 - 277VAC	100 - 277VAC
Input current	0.35/0.5/0.7A max	0.7/1.0/1.4A max
Mains frequency	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
Lumen	4050/6075/8100lm	8100/12150/16200lm
	4500/6750/9000lm	9000/13500/18000lm
Efficiency	135/150 lm/w	135/150 lm/w
CCT	2700-6500K	2700-6500K
CRI	80Ra	80Ra
R9	>0	>0
SDCM	<3	<3
Beam Angle	NR/FD/NU/FU	NR/FD/NU/FU
Dimming	0-10V	0-10V
Dimming range	5% - 100%	5% - 100%
Flicker percent	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C

Electrical Characteristics | DALI DT6 Dimming Driver |50W/70W

Product description

Constant current LED driver

Lifespan: 50,000h

5 years warranty

Properties

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

Surge voltage: 2.5KV



Model No.	CSD2H-50-DT6	CSD2H-70-DT6
Input voltage	220 - 240V	220 - 240V
Input current	0.3A max	0.43A max
Mains frequency	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%
Inrush current	25A@120us	30A@110us
Turn on time (output)	≤1s	≤1s
Standby power P _{sb}	≤0.5W	≤0.5W
Output voltage	30 - 40V	30 - 40V
Output current	0.84/0.95/1.07/1.1	1.3/1.42/1.53/1.6
Max output power	47W	66W
Efficiency (at 230V,50Hz,full load)	88%	88%
Dimming	DALI DT6/switch	DALI DT6/switch
Dimming range	1% - 100%	1% - 100%
Output LF current ripple	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 60°C	-25 - 60°C
Max. Casing temperature T _c	85°C	85°C
Storage temperature T _s	-40 - 85°C	-40 - 85°C
Outer dimensions	280*32*30mm	360*32*30mm

Electrical Characteristics | 1-10V Dimming Driver | American Standard | 30W/45W/60W

Product description

Constant current LED driver

Lifespan: 50,000h

5 years warranty

Properties

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

Surge voltage: 2.5KV



Model No.	CSD1U-30-10	CSD1U-45-10	CSD1U-60-10
Input voltage	100 - 277VAC	100 - 277VAC	100 - 277VAC
Input current	0.4A max	0.6A max	0.8A max
Mains frequency	50/60HZ	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%	15%
Inrush current	18A@200us	20A@200us	25A@200us
Turn on time (output)	≤1s	≤1s	≤1s
Standby power P _{sb}	≤0.5W	≤0.5W	≤0.5W
Output voltage	30 - 42V	30 - 42V	30 - 42V
Output current	0.7A	1A	1.35A
Max output power	29W	42W	57W
Efficiency (at 230V,50Hz,full load)	85%	86%	87%
Dimming	1-10V	1-10V	1-10V
Dimming range	5% - 100%	5% - 100%	5% - 100%
Output LF current ripple	≤5%	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV	2KV
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 80%	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%	10% - 80%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 60°C	-25 - 60°C	-25 - 60°C
Max. Casing temperature T _c	75°C	75°C	75°C
Storage temperature T _s	-40 - 85°C	-40 - 85°C	-40 - 85°C
Outer dimensions	280*37*30mm	280*37*30mm	280*37*30mm

T-Line | LED Linear Lighting System

LED Track Linear Lighting System



14W / 16W / 18W / 20W / 35W/40W / 45W / 50W

Tiltable lighting panel

DALI optional

Sharp/Narrow/ Wide/ Double asymmetric /Flat

Compatible with 3/4/6 wires track rail

160lm per watt

2700K/3000K / 3500K/4000K / 5000K/5700K / 6500K

DIP Switch Driver

600mm /1500mm



LED Track Linear Lighting System



Application

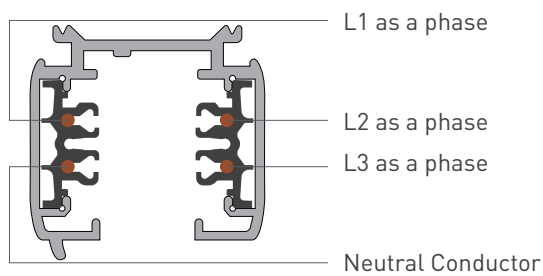
Commercial-Industrial-Warehouse-Other indoor lighting



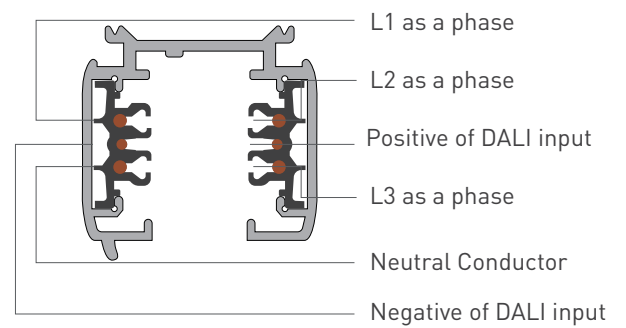
Track rail

The luminaires are compatible with the most brands track rail in the world.

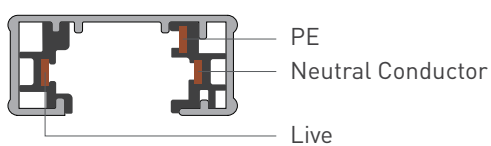
European standard--4 wires / 3 phases



European standard with DALI function--6 wires / 3 phases + DALI



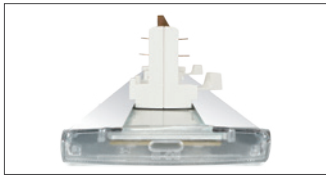
American standard--3 wires / 1 phase



Track Linear Luminaire Types

T-line K1 : Single tilting

Single tiltable, tilting range: 30°



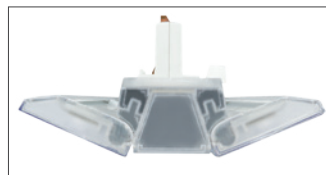
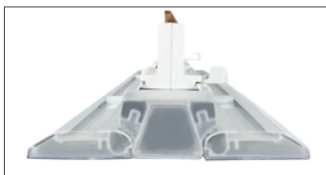
T-line K2 : Twin wings tilting

Twin tiltable wings, tilting range: 30°



T-line K3: Central linear light with twin wings tilting

Twin wings can be tiltable individually or simultaneously through 30° while the central linear light can't be tilted



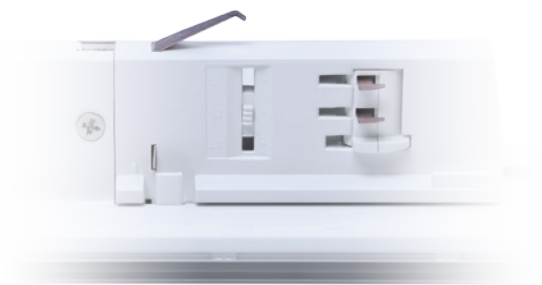
Flexible Solution

Track spotlight module

Track linear can be flexibly combined with track spotlights on the same track rail for general lighting & accent lighting.



Convenient phase selection adaptor

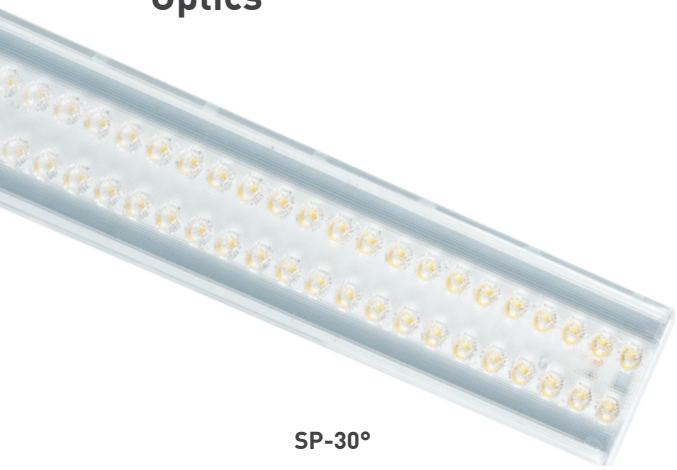


Dip switch driver, convenient for inventory

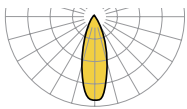


T Line
LED Linear Lighting System

Optics



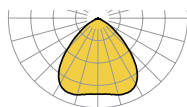
SP-30°
narrow



5,600-12,600 lm
Installation height:
6-16m



WD-90°
wide

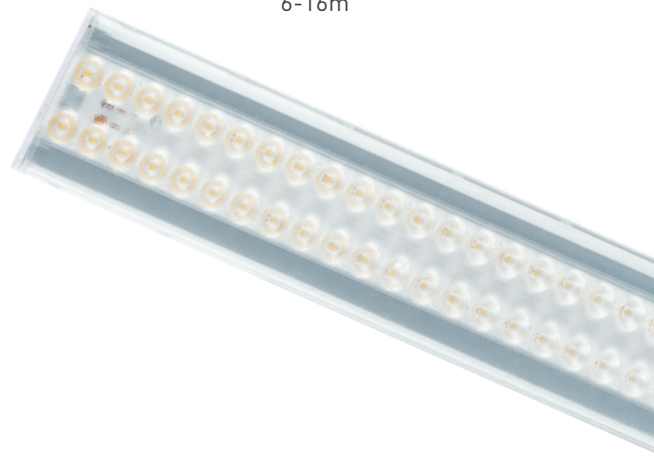


5,600-12,600 lm
Installation height:
3-5m

NR-60°
narrow



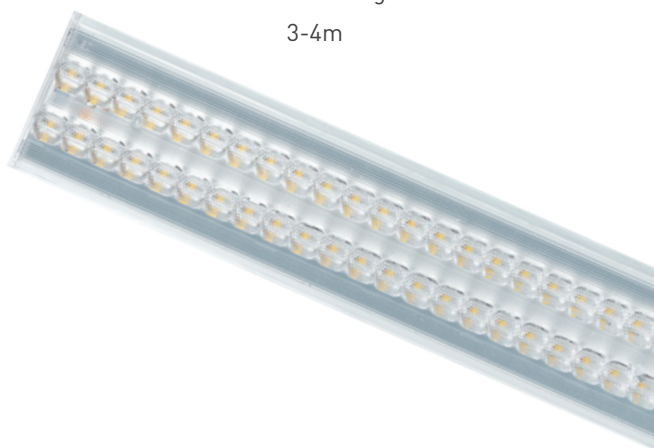
5,600-12,600 lm
Installation height:
6-16m



DS
double asymmetrical



5,600-12,600 lm
Installation height:
3-4m



Order Number List - T-line Track Linear System

Category	Type	Length	Power	CCT	Beam Angle	Wire	Color	Function
	X	X	X	X	X	X	X	X
CTLS	-	06	20-	27	SP-	03	WH-	-
	1	15	50-	30	NR-	04		
	2			35	WD-	06	BK-	DT6
	3			40	DS-			
				50	FD-			
			57	FF-				
			65					

Code Definition

CTLS = CoreShine Track linear system

Type:

1 = K1

2 = K2

3 = K3

Length:

06 = 600mm

15 = 1500mm

Power:

20, 50 = 20W, 50W

CCT:

27 = 2700K

30 = 3000K

35 = 3500K

40 = 4000K

50 = 5000K

57 = 5700K

65 = 6500K

Beam angle:

SP= sharp 30°

NR = narrow 60°

WD = wide 90°

DS= double asymmetrical

FD=flood 120°

FF = flat frosted 120°

Wire:

03 = 3 wires,

04 = 4 wires,

06 = 6 wires

Color of the housing:

WH = white shell

BK = black shell

Function:

DT6 = Dali dimming



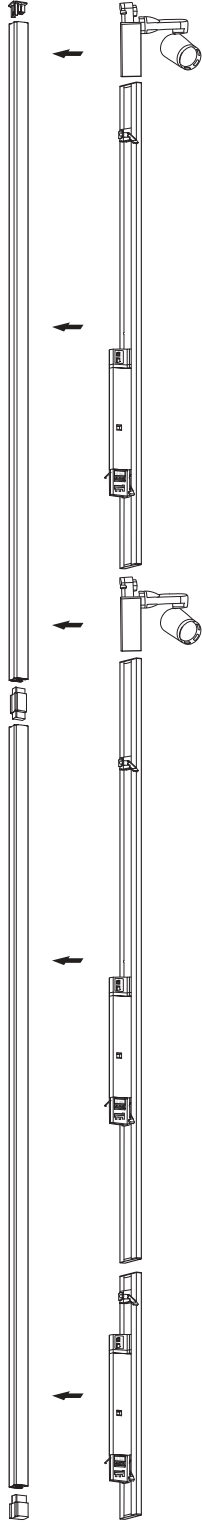
e.g.: CTLS3-1550-50NR-06WH-DT6

K3 type, 1.5m linear luminaire, 50W, 5000K, Narrow beam angle, 6 wires, white color, Dali dimming

LED Linear Lighting System | T Line - 4 wires

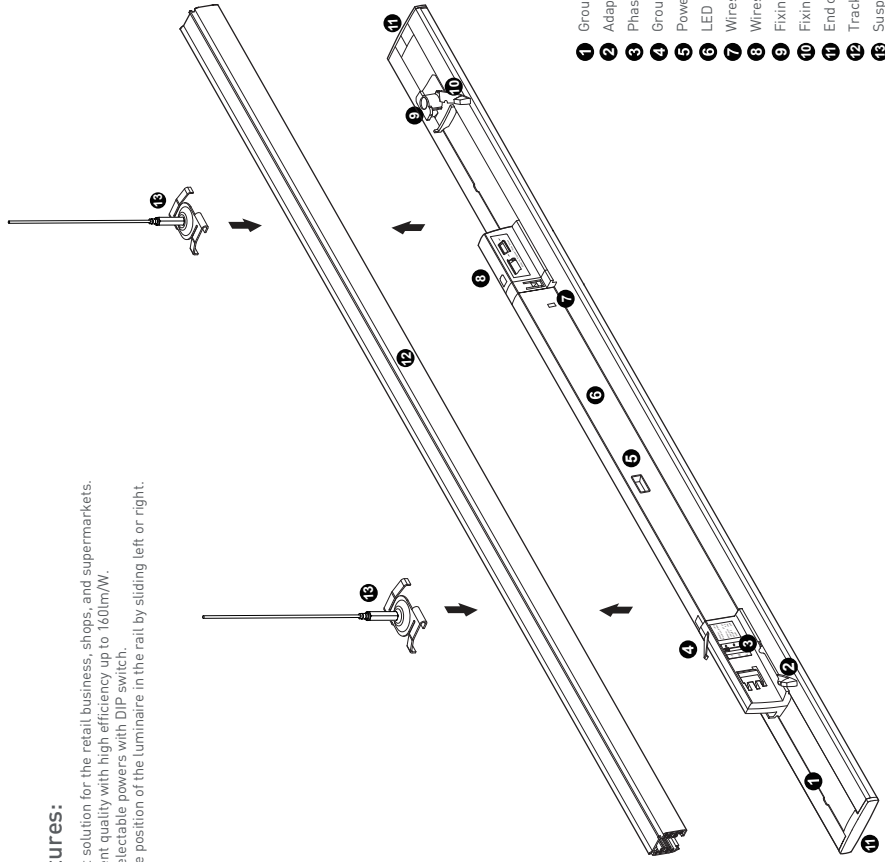
Safety notes:

- I**nstallation must be performed only by a qualified electrician.
- M**ake sure that the fixture is disconnected from the AC supply.
- T**his luminaire is to be installed in 4-wires/3-phases track rails.
- T**he maximum current cannot exceed 10A.



Features:

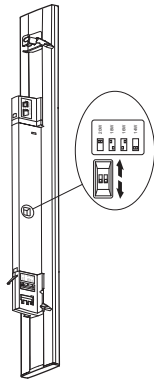
- P**erfect solution for the retail business, shops, and supermarkets.
- E**xcellent quality with high efficiency up to 160lm/W.
- F**our selectable powers with DIP switch.
- F**lexible position of the luminaire in the rail by sliding left or right.



- 1 Ground point
- 2 Adaptor knob
- 3 Phase selector
- 4 Ground pin
- 5 Power selector
- 6 LED driver
- 7 Wires lock
- 8 Wires box
- 9 Fixing lock
- 10 End cap
- 11 Track rail
- 12 Suspension kit

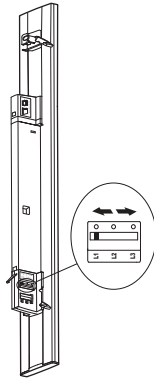
Step 1

Set the power in the **5 power selector** DIP switch.



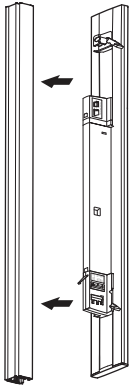
Step 2

Choose the phase/circuit in the **3 phase selector** DIP switch.



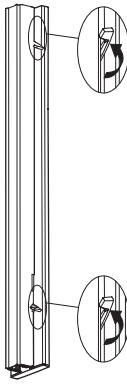
Step 3

Insert the T-line luminaire into the **12 track rail** with the correct direction.



Step 4

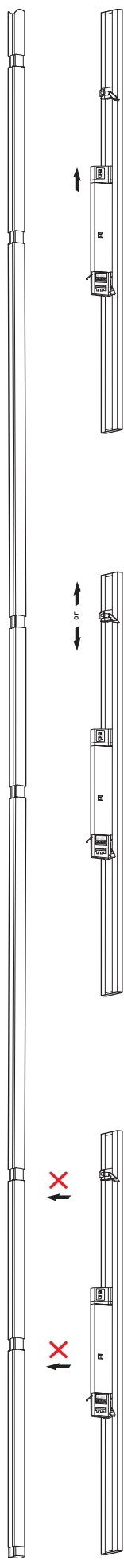
Lock the luminaire with the **2 adaptor knob** and the **10 fixing knob** by rotating the knobs clockwise.



LED Linear Lighting System | T Line - 4 wires

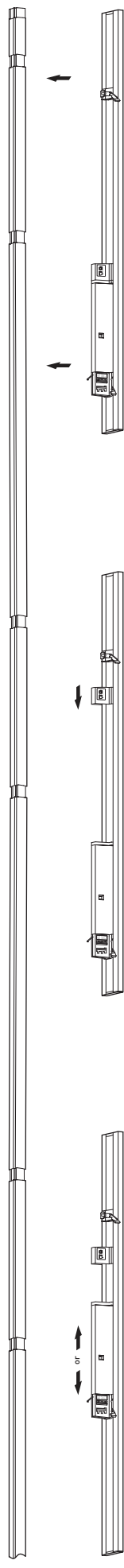
How to avoid the track rail joints during installation

There are 4 movable positions for the LED driver in the T-line Luminaire.
There are 2 movable positions of the fixing lock in the T-line luminaire.



If the **12 track rail** joint interferes with the position of the **6 LED driver**, follow the instruction of **Step 1**.

If the **12 track rail** joint interferes with the position of the **6 LED driver**, follow the instructions from **Step 2** to **Step 3**.



Step 1
Slide the **6 LED driver** left or right to a free position.

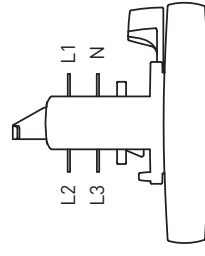
Step 1
Slide the **6 fixing lock** left or right to the second position to avoid the **12 track rail** joint.

Step 2
Expose the wires in the **8 wires box** by moving it to the right.

Step 4
Slide the **8 wires box** near the **6 LED driver**. Tidy up the wires and hide them by sliding the **8 wires box** back.

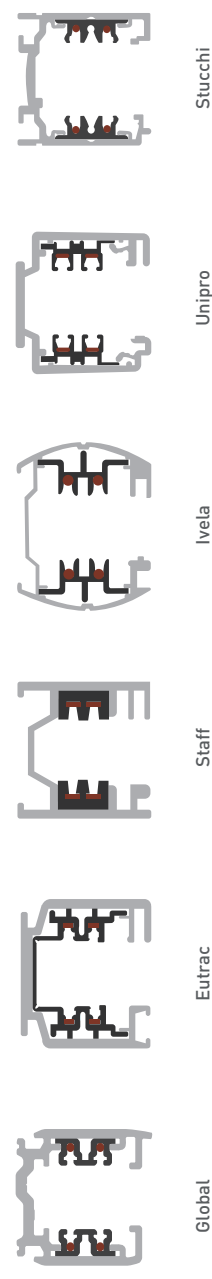
Step 5
Install the T-Line luminaire into the **12 track rail**.

Track rail (4 wires/3 phases) European standard



- L1** as a phase
- L2** as a phase
- L3** as a phase
- N** Neutral Conductor

Recommend track rail brands



T Line
LED Linear Lighting System

Luminaire Characteristics | 20W/50W

Product Description

Flexibly Combine with track spotlights

Continuous line

Application

Commercial

Industrial



Model No.	CTLS-0620/CTLS-0620-DT6	CTLS-1550/CTLS-1550-DT6
Outer dimensions	600mm*60mm	1493mm*60mm
Input power	20W	50W
Dip switch to	14/16/18/20W	35/40/45/50W
Input voltage	220 - 240VAC	220 - 240VAC
Input current	0.12A max	0.3A max
Mains frequency	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
Lumen	2800lm	8000lm
Efficiency	160lm/W	160lm/W
CCT	2700-6500K	2700-6500K
CRI	80Ra	80Ra
R9	>0	>0
SDCM	<3	<3
Beam Angle	SP30°, NR60° WD90°, DS FF120°	SP30°, NR60° WD90°, DS FF120°
Dimming	NO/DALI DT6/switch	NO/DALI DT6/switch
Dimming range	-/1% - 100%	-/1% - 100%
Output LF current ripple	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C

Electrical Characteristics | Output Selectable Driver | 20W/50W

Product description

Constant current LED driver

Lifespan: 50,000h

5 years warranty

Properties

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

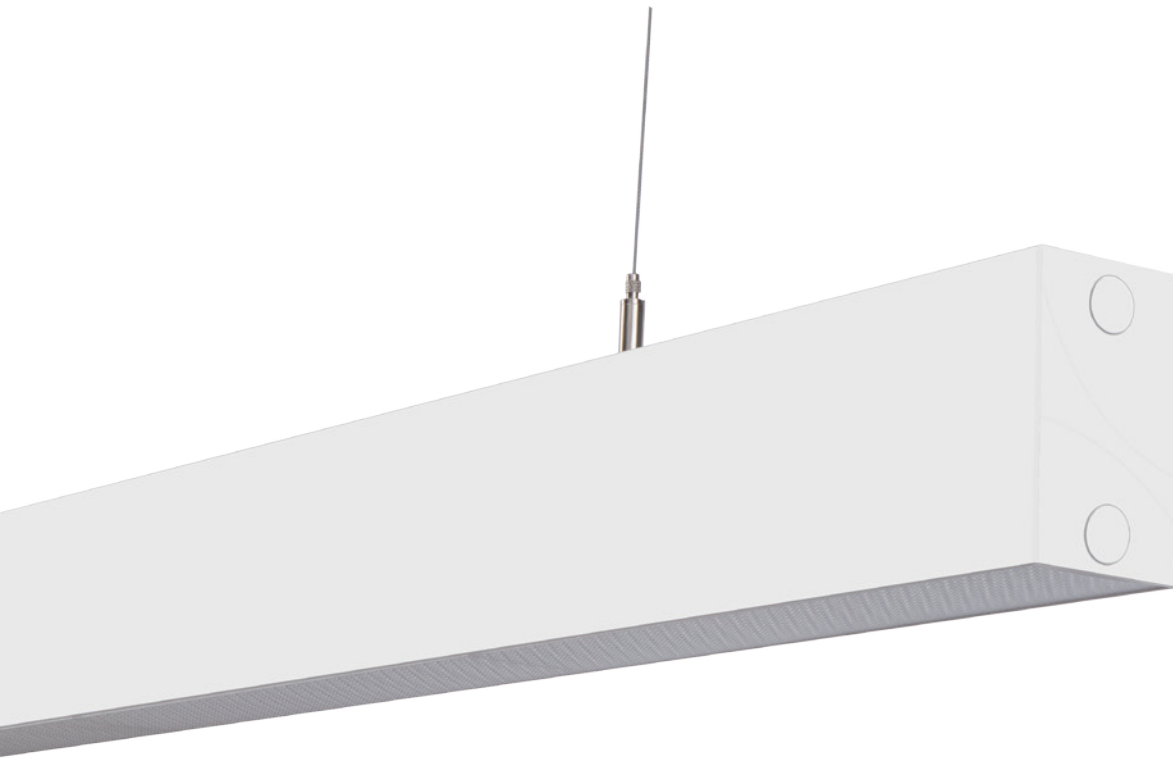
Surge voltage: 2.5KV



Model No.	CSD2T-50	CSD2T-50-DT6
Input voltage	220 - 240VAC	220 - 240VAC
Input current	0.35A max	0.33A max
Mains frequency	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%
Inrush current	23A/120uS	25A/120uS
Turn on time (output)	≤1s	≤1s
Standby power P _{sb}	/	≤0.5W
Output voltage	55 - 82V	30 - 36V
Output current	0.5/0.56/0.63/0.71A	0.96/1.09/1.22/1.35A
Max output power	58W	49W
Efficiency (at 230V,50Hz,full load)	89%	87%
Dimming	NO	DALI DT6/switch
Dimming range	/	1% - 100%
Output LF current ripple	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 50°C	-25 - 50°C
Max. Casing temperature T _c	75°C	75°C
Storage temperature T _s	-40 - 85°C	-40 - 85°C
Outer dimensions	300*25*12mm	350*25*12mm

H-Line | LED Linear Lighting System

LED Linear Lighting System



35W 1200mm/1500mm 70W 2400mm

DALI2.0 DT8//DT1/D4i

11 wires trunking rail

Daylight sensor, Motion sensor

L , T , X node connector

142LM per watt

DC emergency/Built-in battery supply /Central safety emergency supply

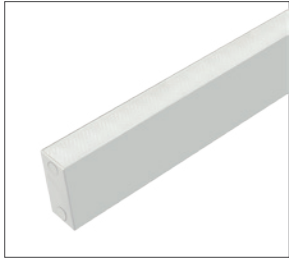
Pendant / Surface / Recessed Mount

UGR<19

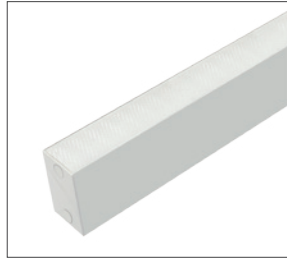
Colour temperature tunable range 2700-6500k



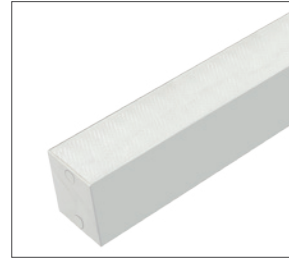
LED Track Linear Lighting System



H40



H60

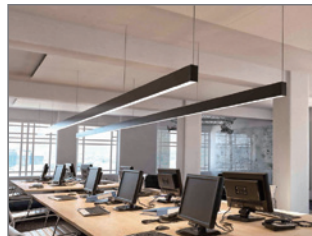


H90



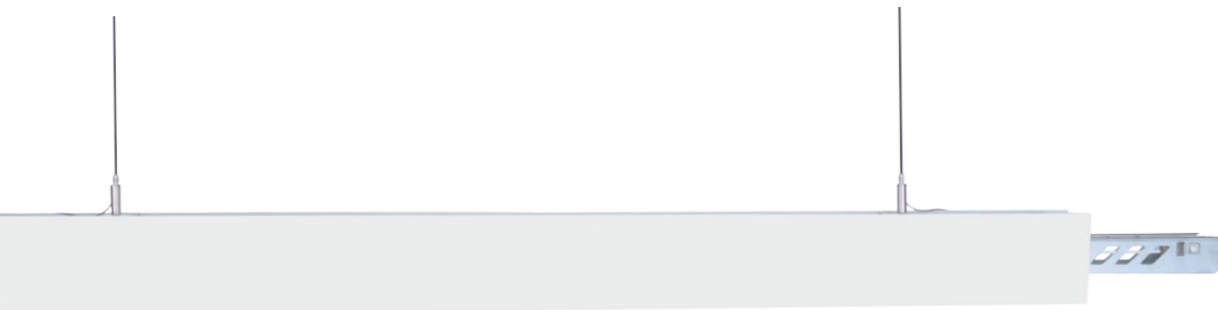
Application

Office·Corridor·Industrial·Warehouse·Other indoor lighting



H-Line

LED Linear Lighting System



○ White
RAL 9016

● Black
RAL 9017

TRUNKING RAIL

European Standard

1500mm Rail



1200mm Supplementary Rail



1200mm Rail



1500mm Terminal Rail



American Standard

1200mm Rail



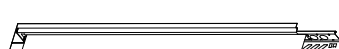
2400mm Rail



900mm Supplementary Rail



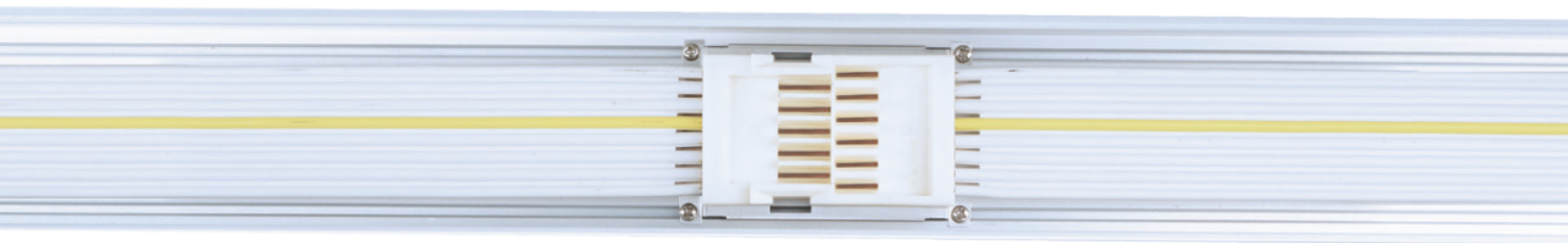
900mm Rail



1200mm Terminal Rail



WIRING INFORMATION



Mode	Function Description						Description of the wire										
	3 phase	DALI	1-10V	Batt	EMG1	EMG2	1	2	3	4	5	6	7	8	9	10	11

11-core trunking rail :																	
1	√	√		√			L1	L2	L3	PE	N	L _{CHR}	N _{CHR}	CS	-	DA/N	DA/L
2	√	√			√		L1	L2	L3	PE	N	EL	EN	CS	-	DA/N	DA/L
3	√	√			√	√	L1	L2	L3	PE	N	EL1	EN1	EL2	EN2	DA/N	DA/L

PE: Ground

EL1: Emergency 1 supply Live

EN1: Emergency 1 supply Neutral

EL2: Emergency 2 supply Live

EN2: Emergency 2 supply Neutral

L1/L2/L3: Main power supply Live

N: Main power supply Neutral

Note: Only L1/L2/L3/N1 PE wires are 14AWG with 16A , the rest are 18AWG with 10A.

DA/L: Positive of DALI input, or Live when work as DIM switch

DA/N: Negative of DALI input, or Neutral when work as DIM switch

L_{CHR}: Charge input for internal battery, supply Live

N_{CHR}: Charge input for internal battery, supply Neutral

CS: Live for CCT Switch

Feed-in and Node connector



Feed-in box



L Node Connector



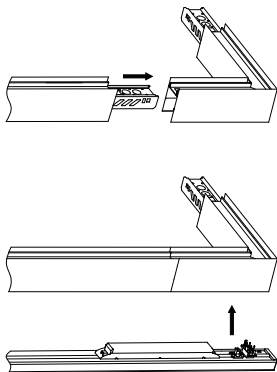
T Node Connector



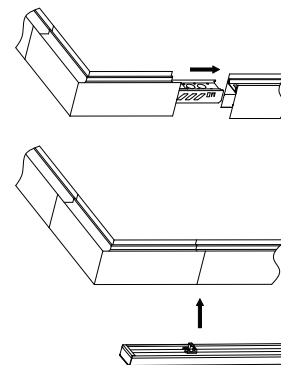
X Node Connector

Node connector +short/ supplementary rail

A supplementary rail is needed in front of the feed in side of a node connector to match the standard size of luminaire

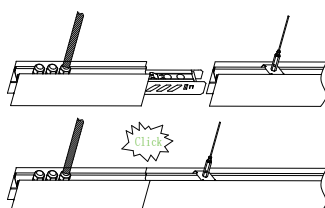


A short rail is needed in rear of the feed out side of a node connector to match the standard size of luminaire

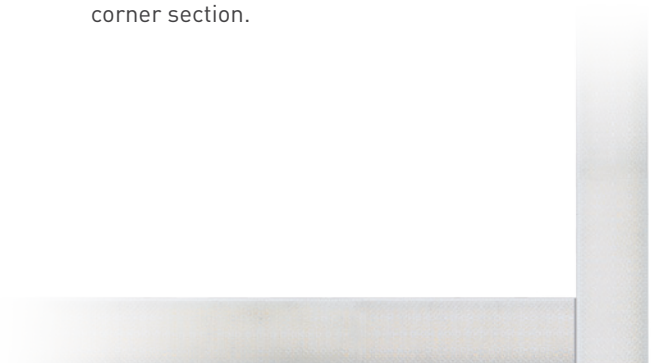


Feed-in Box + Rail

A feed in box should always be connected with a short rail to match the standard size of luminaire



With a sophisticated design of L,T,X Node connectors and supplementary rail, we can guarantee a seamless joint all along the light line even in the corner section.



H-Line

LED Linear Lighting System

American Standard 1200mm 35W 5000lm
 2400mm 70W 10000lm

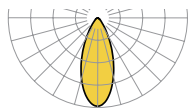
European Standard 1500mm 35W 5000lm



142lm/W

UGR<19

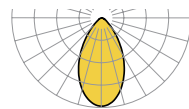
CCT Tunable Range: 2700-6500K



H40 Beam Angle
45°
UGR<19



H60 Beam Angle
50°
UGR<19



H90 Beam Angle
60°
UGR<19

UPLIGHTING OPTIONS

H-Line luminaire shines in both upward and downward directions, the output of the up/down light module need to be confirmed before ordering (please refer to the figure below for proportion options), the total power output of the luminaire remains unchanged. Note that dimming and CCT adjustment are synchronized between the up/down light modules.



American Standard

Luminaire	Uplight module	H40				H60				H90					
		length	length	Uplight	downlight	Uplight	Downlight	Uplight	downlight	Uplight	Downlight	Uplight	downlight	Uplight	Downlight
						lumen	lumen			lumen	lumen			lumen	lumen
CHU-12-2	1200mm	1007mm	20%	80%	1100lm	4000lm	20%	80%	1100lm	4000lm	20%	80%	1100lm	4000lm	
CHU-12-3	1200mm	1007mm	33%	67%	1800lm	3350lm	30%	70%	1650lm	3500lm	30%	70%	1650lm	3500lm	
CHU-12-4	1200mm	1007mm	48%	52%	2650lm	2600lm	45%	55%	2500lm	2750lm	45%	55%	2500lm	2750lm	

European Standard

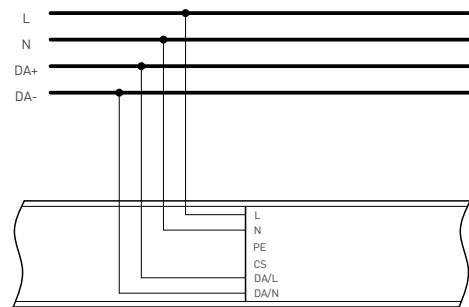
Luminaire	Uplight module	H40				H60				H90					
		length	length	Uplight	downlight	Uplight	Downlight	Uplight	downlight	Uplight	Downlight	Uplight	downlight	Uplight	Downlight
						lumen	lumen			lumen	lumen			lumen	lumen
CHU-15-2	1500mm	1307mm	20%	80%	1100lm	4000lm	20%	80%	1100lm	4000lm	20%	80%	1100lm	4000lm	
CHU-15-3	1500mm	1307mm	33%	67%	1800lm	3350lm	30%	70%	1650lm	3500lm	30%	70%	1650lm	3500lm	
CHU-15-4	1500mm	1307mm	48%	52%	2650lm	2600lm	45%	55%	2500lm	2750lm	45%	55%	2500lm	2750lm	

DALI2.0 & SENSOR MODULE

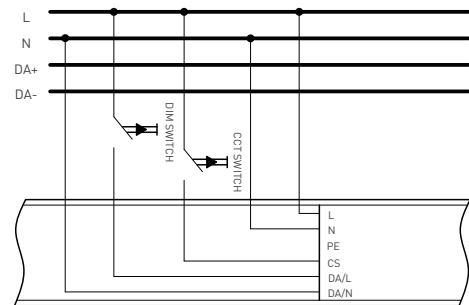
The smart control function of H-Line adopts DALI2.0 protocol. DALI2.0 as the leading lighting control protocol, can easily and intelligently manage H-Line equipment, and realize the intelligent control of single or group equipment.

Our DALI2.0 driver series include:

- DT1 - Self-contained emergency power supply
- DT8 - Dimmable power supply for tunable white luminaires
- D4i - DALI power supply for intelligent, IoT-ready luminaires



Dali DT8



Dim Switch and CCT Switch



This smart wireless DALI sensor can be used in any DALI lighting system, as well as H-Line office linear, with DALI sensor utilized, it makes H-Line more intelligent in applications to create a comfortable lighting environment, for functional features as below:

- CCT & brightness wireless remote control
- Auto Adjustable CCT & Brightness By Time Schedule
- Daylight sensor control
- Motion sensor control

INSTALLATION

Power Feed Accessory



Feed in box



Feed in connector



End cap

Suspension Kit



Chain

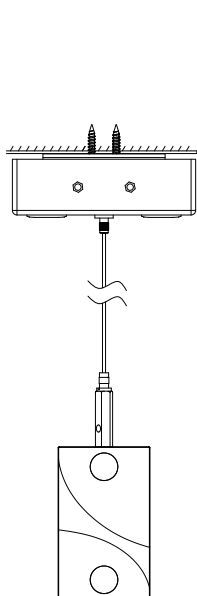


Cord

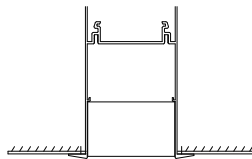


Rod

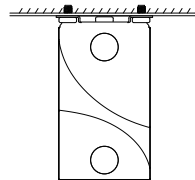
Installation Method



Pendant



Recessed



Surface Mounted

EMERGENCY LIGHTING



External emergency with Constant current(On/off) LED driver

Luminaires with Constant current(on/off) led driver connect to the central backup battery or UPS through EL, EN. When no power is detected, the luminaires are off; when power is detected, the luminaires are 100% brightness.

EL/EN	Lamp Brightness
OFF	0%
ON	100%

L/N or EL/EN	Lamp Brightness
OFF	0%
AC 220V ON	100%
DC 220V ON	15%

External emergency with DALI driver

Luminaires with DALI driver connect to the mains electricity, central backup battery or UPS. When no power is detected, the luminaires are off; when AC power is detected, the luminaires are on 100%; when DC power is detected, the luminaires are on 15%.

Internal emergency with built-in battery pack

Different combination of emergency driver and battery pack are available. When CHR detects that there is power, luminaires are on 100%; when no power detected, luminaires will work according to the selected emergency driver. Different emergency drivers and battery packs can be freely combined as below.

L/N	L-CHR/N-CHR	Battery	Emergency driver power	Power when in emergency	Duration time
OFF	ON	/	/	/	0%
OFF	OFF	1800mAh	6W	6W	3 hours
OFF	OFF	3600mAh	12W	12W	3 hours
OFF	OFF	3600mAh	6W	6W	6 hours

Order Number List - Trunking Rail

Category	Length	Option	Color
	X	X	X
CHT -	N -	N -	WH
	12	F	BK
	15	T	SV
	24	S	



Code Definition

CHT = CoreShine Trunking Rail

Length:

09 = 900mm

12 = 1200mm

15 = 1500mm

24 = 2400mm

Option:

N = normal rail

F = feed-in rail

T = terminal rail

S = supplementary rail

Color:

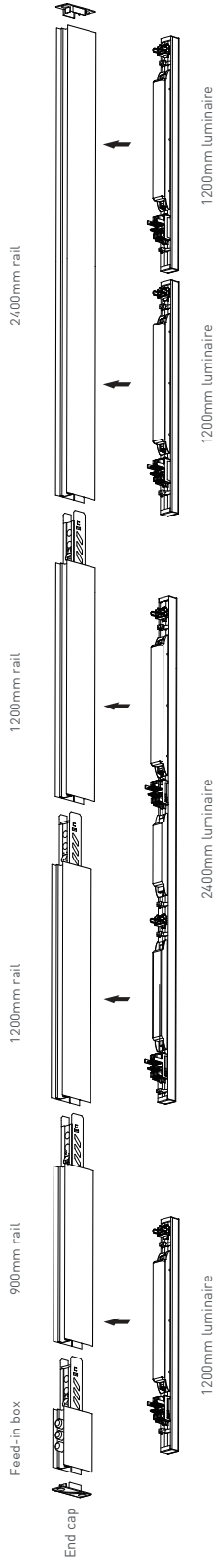
WH = white

BK = black

SV = silver

e.g.: CHT-15N-WH

1.5m linear trunking rail, normal, white color



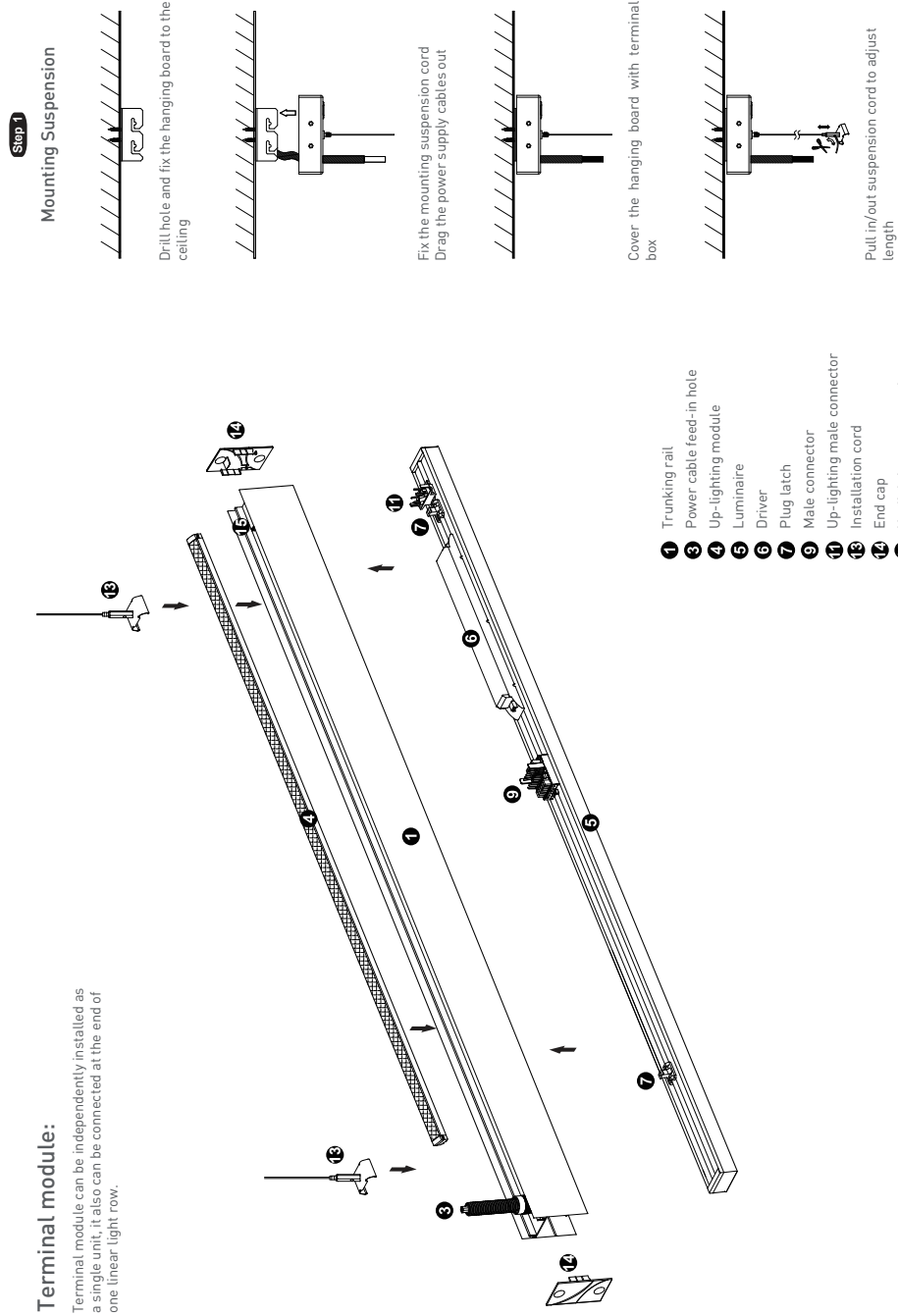
LED linear lighting System composition

Safety notes:
Installation should be performed only by qualified electrician.

- Make sure no voltage while installation.
- Connect cable wires according to wire labeling.
- Max current should not exceed 16A in one power feed in circuit.

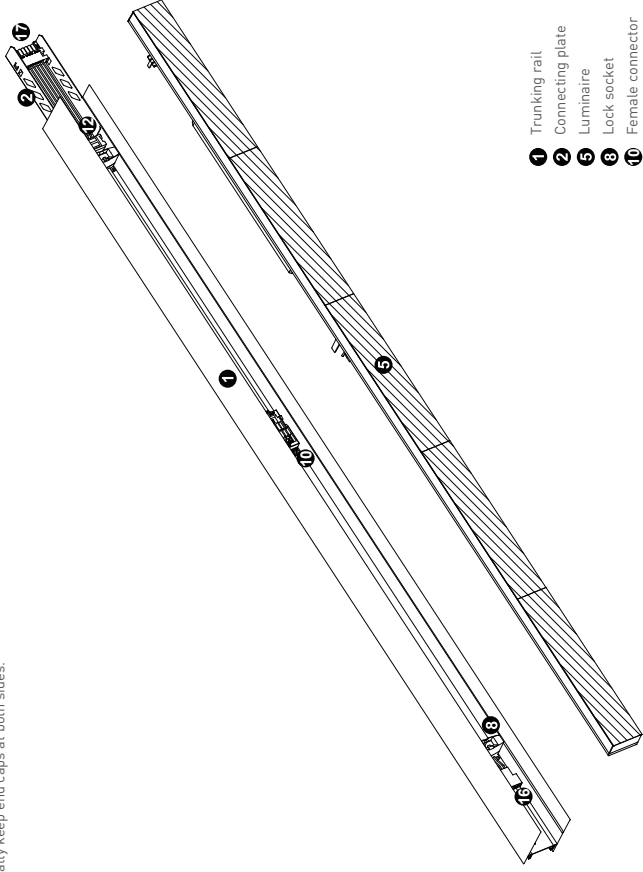
Terminal module:

Terminal module can be independently installed as a single unit, it also can be connected at the end of one linear light row.



Tracking and luminaire:

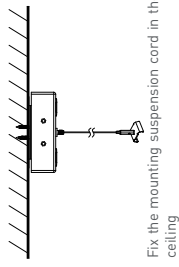
The first trunking rail should have one side connecting plate and last trunking rail with no connecting plate on both sides, then fix the luminaire to trunking rail and lock holder, finally keep end caps at both sides.



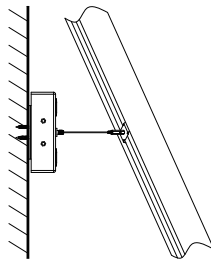
- 1 Trunking rail
- 2 Connecting plate
- 3 Luminaire
- 4 Lock socket
- 5 Female connector
- 6 Up-lighting female connector
- 7 Feed-in connector
- 8 Feed-out connector

Step 1

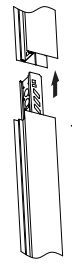
Mounting Suspension



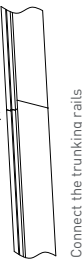
Fix the mounting suspension cord in the ceiling



Click in mounting clip into the trunking rail



Click



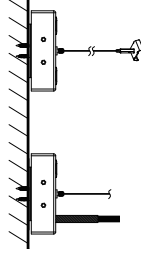
Connect the trunking rails



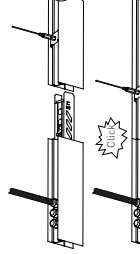
Fix the up-lighting module on the trunking rail

Step 2

Connecting the Mains Electricity

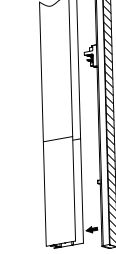


Install the terminal box in the ceiling

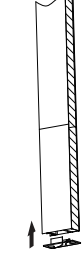


Click

Connect the feed-in box to the trunking rail

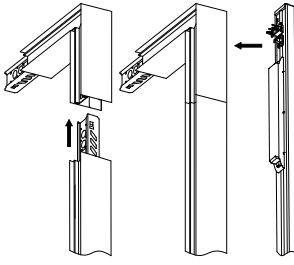


Plug the luminaire into the trunking rail

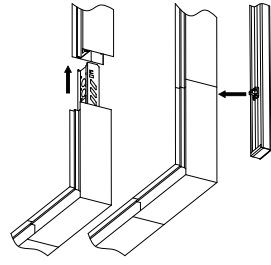


Cover with end cap

Corner Installation

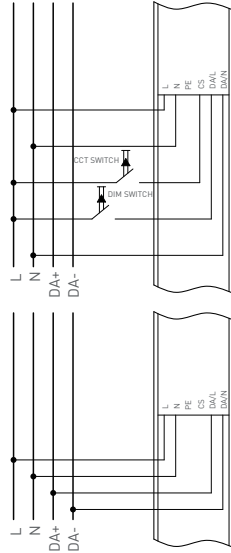


Plug in the luminaire (align the end of the "L" node connector)



Plug in the luminaire (Align another side of "L" node connector)

Wire diagram

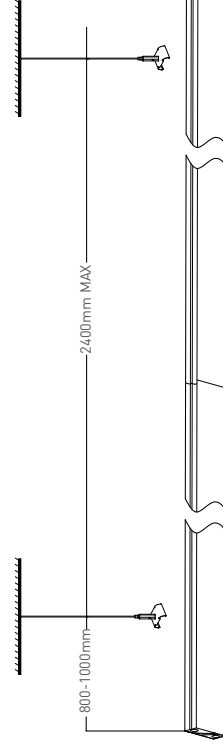


DALI DT8

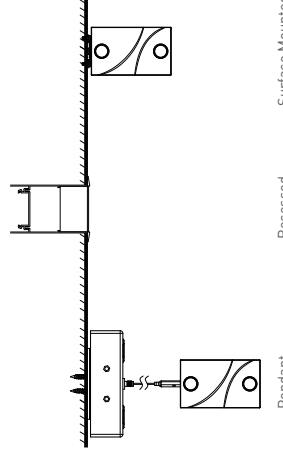
DIM switch and CCT switch

Pendant and mounting installation

Starting installation distances point should be 800 mm to 1000 mm, then in between 1st & 2nd point should be 2400 mm max.



Three options for installation



Pendant

Recessed

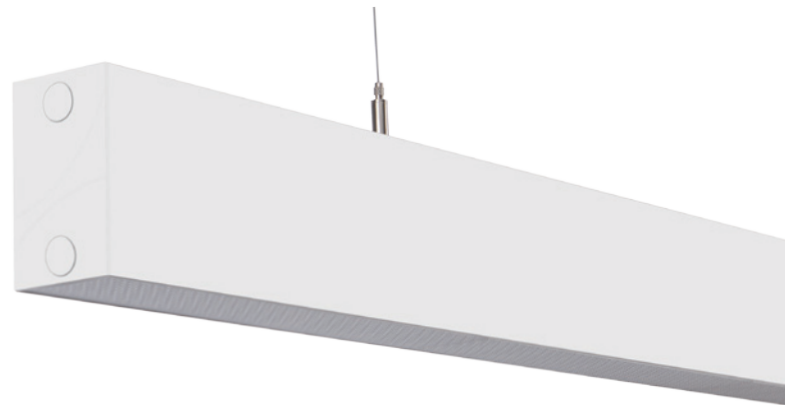
Surface Mounted

Order Number List - Luminaire

Category	Length	Power	Color	Function
	X	X	X	X
CHL -	12	35-	WH	DT8
	15	70	BK	
	24		SV	

e.g.: CHL-1235-WH-DT8

1.2m linear luminaire, 35W, white color, DT8



Code Definition

CHL = CoreShine Luminaire

Length:

12 = 1200mm

15 = 1500mm

24 = 2400mm

Color of the housing:

WH = white shell

BK = black shell

SV = silver shell

Power:

35, 70 = 35W, 70W

Function:

DT8

Order Number List - Up Lighting Module



Category	Length	ULOR
	X	X
CHU -	12	2
	15	3
		4

e.g.: CHU-12-4

The up lighting module apply to 1.2m upward light trunking rail, upward light output ratio: 40%-50%

Code Definition

CHU = CoreShine up lighting module

Length:

12 = Apply to 1200mm upward light trunking rail

15 = Apply to 1500mm upward light trunking rail

ULOR:

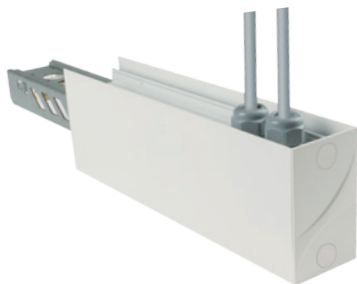
2 = Upward light output ratio(20%-30%)

3 = Upward light output ratio(30%-40%)

4 = Upward light output ratio(40%-50%)

Order Number List - Node Connector - Feed-in Box

Category	Model	Color
CHN -	BF-	X
		WH
		BK
		SV



Code Definition

CHN=Coreshine Node Connector

Model:

BF= Feed-in box

Color:

WH= white

BK= black

SV= silver

Order Number List - L, T, X Node Connector

Code Definition

CHN=Coreshine Node Connector

Model:

L= L-node connector

T= T-node connector

X= X-node connector

Option:

OI=feed-in by the left side; feed-out by right side

IO=feed-in by the right side; feed-out by left side

OIO=one side for feed-in; two sides for feed-out

I000=one side for feed-in; three sides for feed-out

Color:

WH= white

BK= black

SV= silver

Category	Model	Option	Color
CHN -	L	X	X
		OI	WH
		IO	BK
		OIO	SV
	T	I000	SV
		OIO	
		O0I	
		O00I	
X	I000		

e.g.: CHN-XI000-WH

X-node connector, one side for feed-in, three sides for feed-out, white color



L Node Connector

T Node Connector

X Node Connector

H-Line Luminaire Characteristics | DALI DT8 Version | 35W/70W

Product Description

UGR<19

Seamless connection

Continuous line without gap

Applications

Office

Commercial

Industrial



Model No.	CHLS-1235-DT8	CHLS-1535-DT8	CHLS-2470-DT8
Outer dimensions	H40: 1200*100*40mm H60: 1200*100*60mm H90: 1200*100*90mm	H40: 1500*100*40mm H60: 1500*100*60mm H90: 1500*100*90mm	H40 :2400*100*40mm H60 :2400*100*60mm H90 :2400*100*90mm
Input power	35W	35W	70W
Dip switch to	20/25/30/35W	20/25/30/35W	40/50/60/70W
Input voltage	220 - 240VAC	220 - 240VAC	220 - 240VAC
Input current	0.2A max	0.2A max	0.4A max
Mains frequency	50/60HZ	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9	0.9
Lumen	5000lm	5000lm	10000lm
Efficiency	142lm/W	142lm/W	142lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra	80Ra	80Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
UGR	<19	<19	<19
Beam Angle	45°/50°/60°	45°/50°/60°	45°/50°/60°
Up light	25%/35%/45%	25%/35%/45%	25%/35%/45%
Dimming	DALI DT8/switch	DALI DT8/switch	DALI DT8/switch
Dimming range	1% - 100%	1% - 100%	1% - 100%
Flicker percent	≤5%	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4	≤0.4
Type of protection	IP40	IP40	IP40
Operating humidity	10% - 80%	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%	10% - 80%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C

H-LINE

Electrical Characteristics | DALI DT8 Dimming Driver | 35W/70W

Product description

Constant current LED driver

Lifespan: 50,000h

5 years warranty

Properties

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

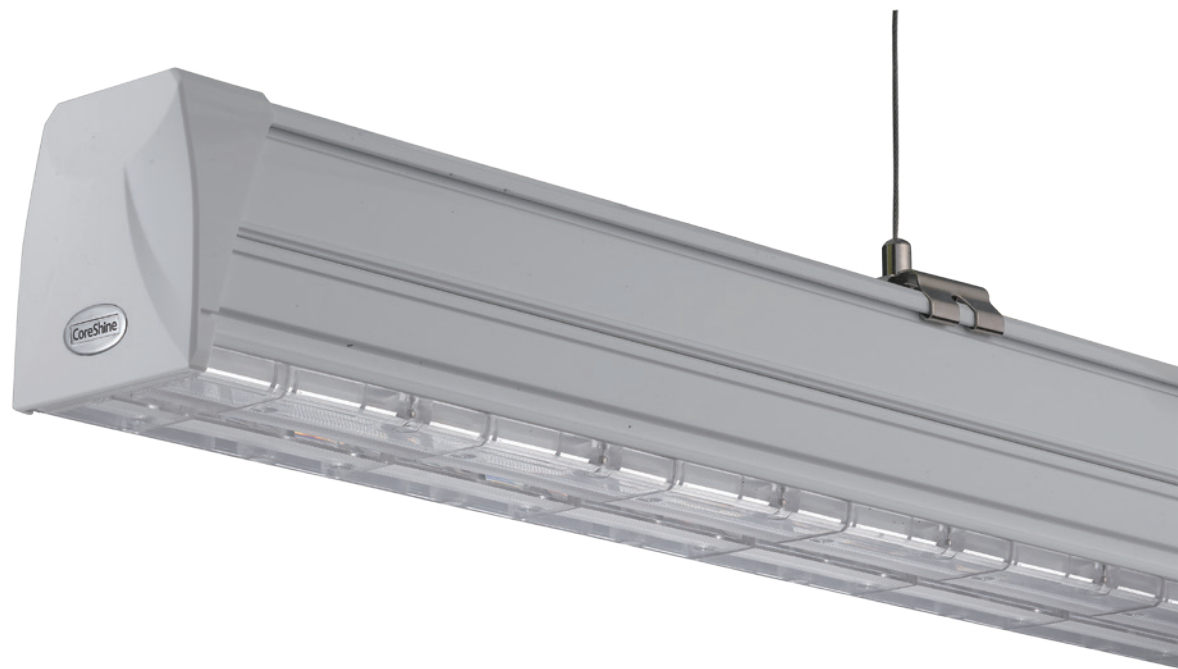
Surge voltage: 2.5KV



Model No.	CSD2H-35-DT8	CSD2H-70-DT8
Input voltage	220 - 240V	220 - 240V
Input current	0.21A max	0.43A max
Mains frequency	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9
THD (at 230 V, 50 Hz, full load)	15%	15%
Inrush current	24A@120us	30A@110us
Turn on time (output)	≤1s	≤1s
Standby power P _{sb}	≤0.5W	≤0.5W
Output voltage	30 - 40V	30 - 40V
Output current	0.47/0.59/0.71/0.83A	0.96/1.19/1.42/1.65A
Max output power	33W	66W
Efficiency (at 230V,50Hz,full load)	87%	88%
Dimming	DALI DT8/switch	DALI DT8/switch
Dimming range	1% - 100%	1% - 100%
Output LF current ripple	≤5%	≤5%
Surge (between L - N)	2.5KV	2.5KV
Surge (between L/N - PE)	2KV	2KV
Type of protection	IP20	IP20
Operating humidity	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 60°C	-25 - 60°C
Max. Casing temperature T _c	80°C	85°C
Storage temperature T _s	40 - 85°C	40 - 85°C
Outer dimensions	280*32*30mm	360*32*30mm

C-Line | LED Linear Lighting System

LED Linear Lighting System



16W / 26W / 32W / 40W / 65W / 80W optional
DALI / 1-10V / DIM switch dimmable optional
Sharp / narrow / wide / flat / asymmetric / double asymmetric
5 / 7 / 11 wires trunking rail
Daylight sensor, motion sensor
L , T , X node connector
160LM / 180LM per watt
DC emergency / central safety emergency supply / built-in battery supply
Cord / chain / rod / surface mounted / mounting clip
570mm / 1416mm



CoreShine

Shenzhen CoreShine Optoelectronics Co.,Ltd