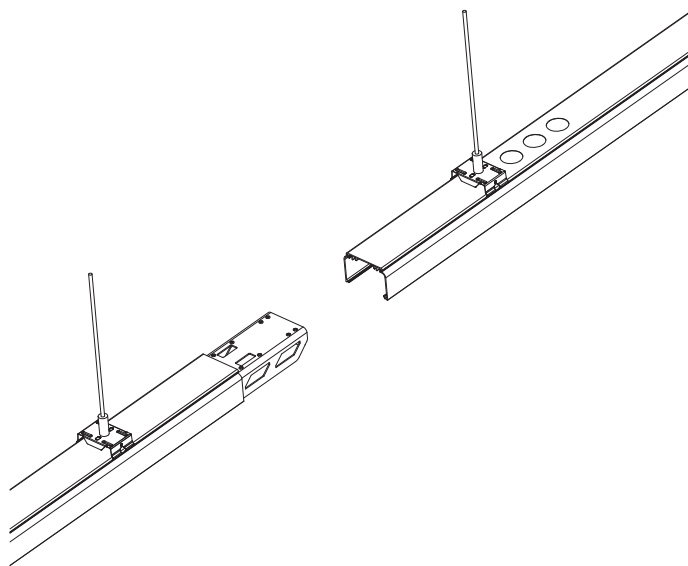


# LED market

## LED LINEAR TRUNKING SYSTEM

**2018** Collection



To Be Your Light Designer





# About LED market

Led Market is recommended as a responsible and reliable partner in R. Moldova, able to satisfy any customer requirements in short terms. Basic orientation of our business is selling and installing LED lighting, choosing individual approach to everyone.

# Vision

- Simplified Design
- Modularization
- Network Intelligence
- Cost Effectiveness



## About Linear

Overview	1-3
Characteristic	4-6

## Specification

Linear Lighting System	1-3
Linear Single Lamp	4-6
Linear Track Light	1-3

## Function

5 wires	1-3
7 wires	4-6
11 wires	1-3

## Application

Warehouse	1-3
Workshop	4-6
Supermarket	1-3
Gym	1-3

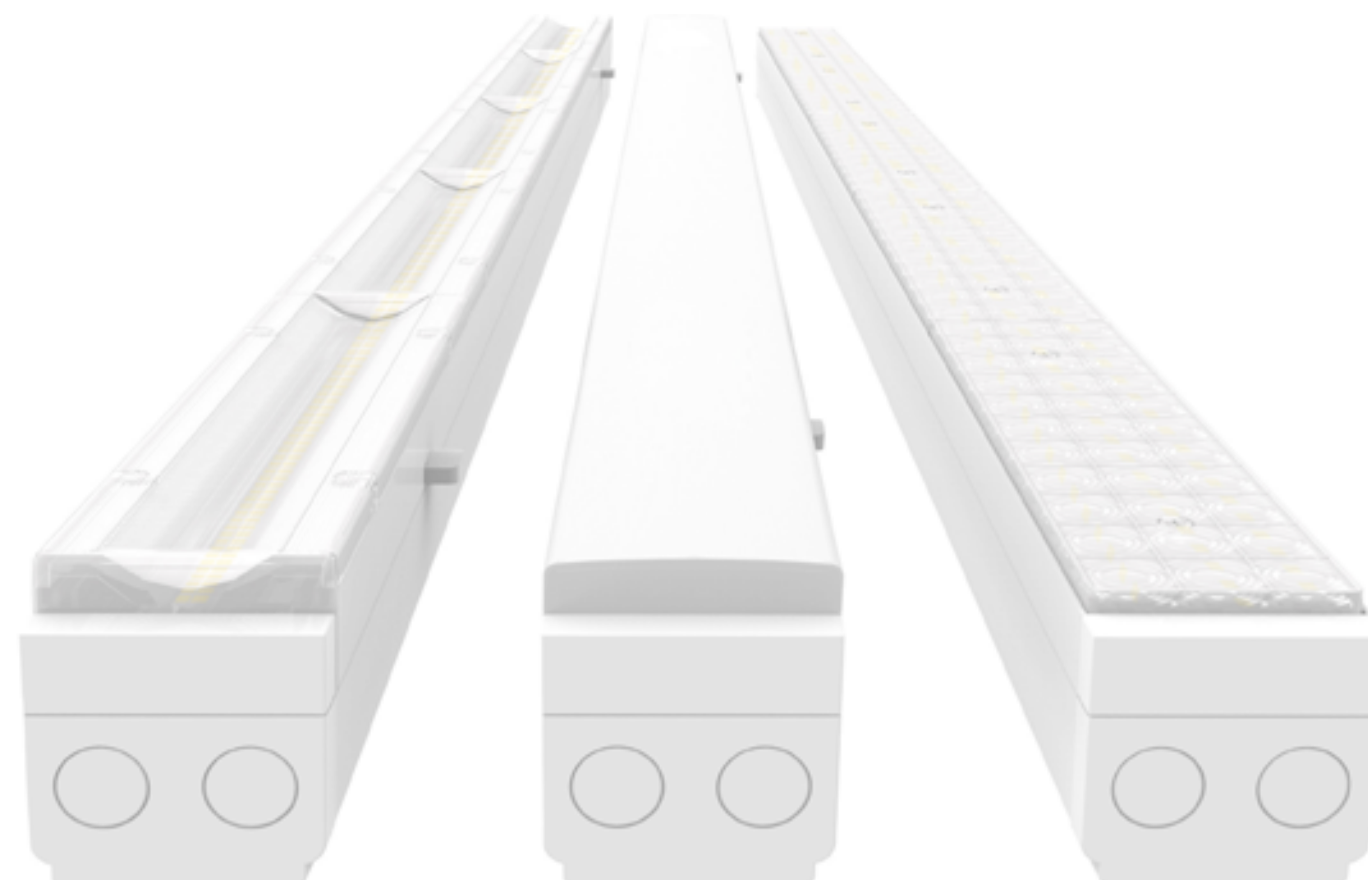


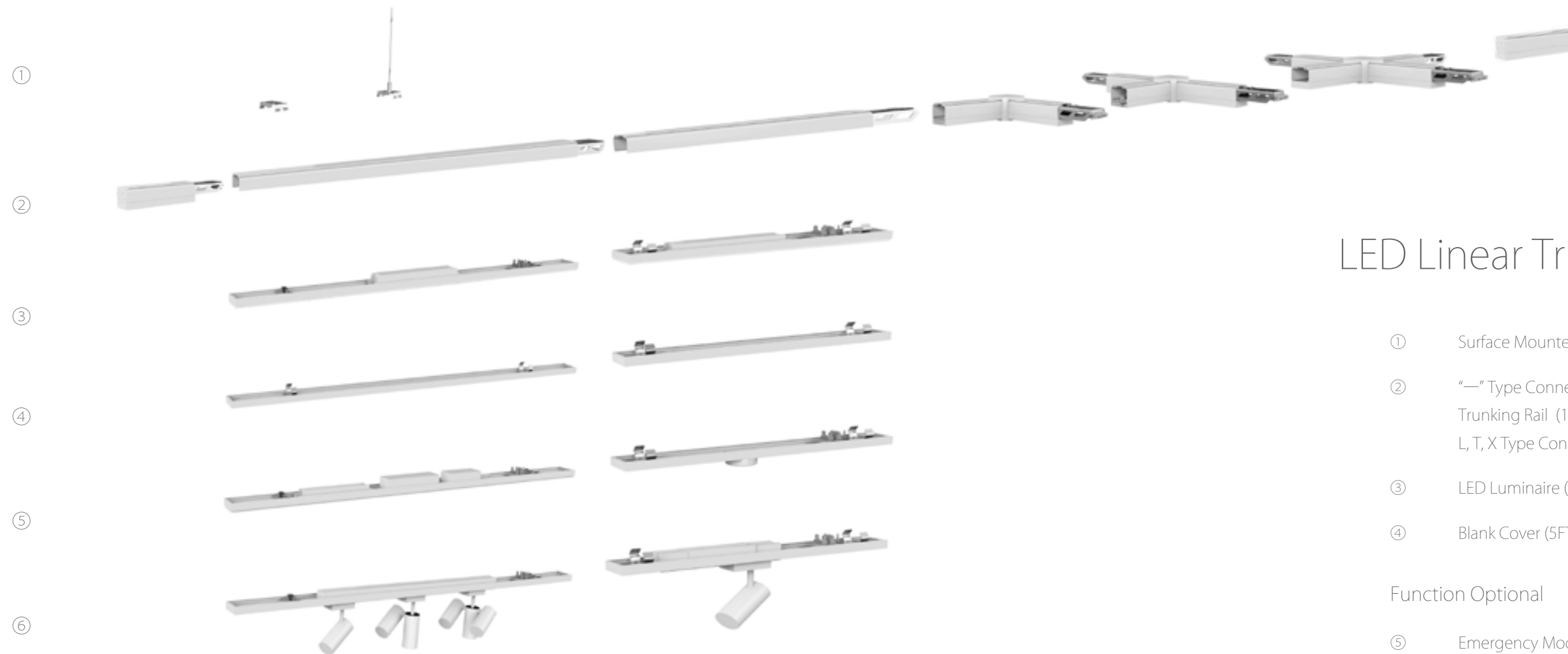
Europe Design Patent

C Line:	003111848-0001
E Line V2.0:	003111848-0002
E Line V1.0:	003111848-0003

# LED Linear Trunking System

- Designed for Saving Cost and Time -





## LED Linear Trunking System

- ① Surface Mounted Kits / Suspension Kits
- ② “—” Type Connector  
Trunking Rail (15FT / 10FT / 5FT / 2FT)  
L, T, X Type Connector (Optional) / End Box
- ③ LED Luminaire (5FT / 2FT)
- ④ Blank Cover (5FT / 2FT)

### Function Optional

- ⑤ Emergency Module (5FT)  
Sensor Module (2FT / 5FT)
- ⑥ Track Rail Module (5FT / 2FT)

## Saving Installation & Maintenance Cost

- 30 seconds to finish installation.
- Easy to assemble and disassemble because of modularization.
- TUV-GS and RCM certificate, 5 & 7 years warranty.

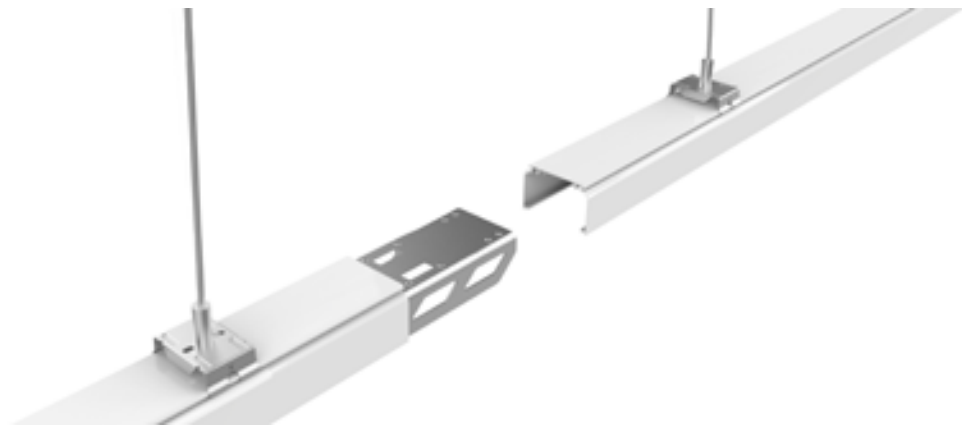


## Saving Energy

- C Line: 150lm/w
- E Line: 130lm/w
- Beam Angle: 30°,60°,90°,120°,Double 25°,Right 25°,Left 25°,30° / 90°,30° / 120°

## Saving Light Costs

- Pre-wired and connectable trunking rail saves the costs of wiring.
- Less lighting quantity, more cost effective light solution with optimal illumination.



## Intelligent C & E line, More Application

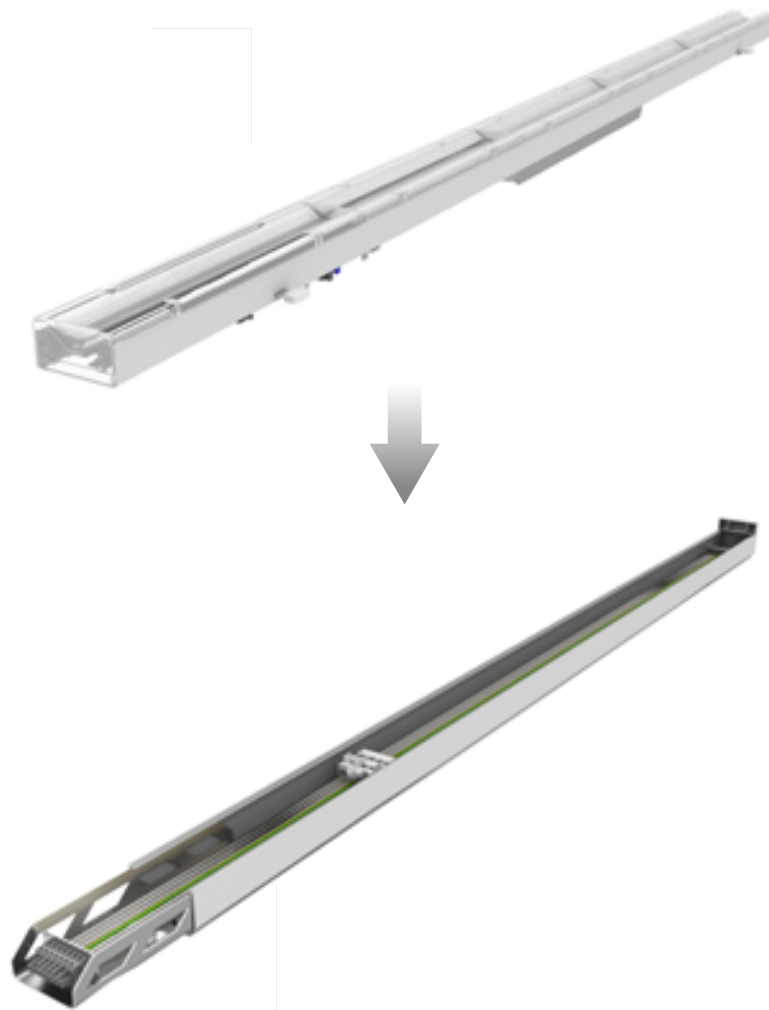
- Dimming: DALI / 0-10V
- Emergency: 6W, 12W, Self-testing
- Sensor: Motion / Daylight / 0-10V Dimming
- Track Rail Module

# Linear Lighting System: E LINE

Luminaire: E Line

]Function Module:

- Dimming
- Emergency
- Sensor
- Track Rail



Prewired Trunking Rail for Connection



# Linear Lighting System

E LINE Luminaire: 130lm/w



2FT: 576\*65\*26mm

SMD5630  
Power: 16w / 20w / 24w / 28w  
CRI>80, PF>0.9  
120-130lm/w  
5&7 Years Warranty

3000K 4000K 5000K 6000K

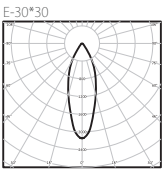


5FT: 1436\*65\*26mm

SMD5630  
Power: 36w / 48w / 60w / 72w  
CRI>80, PF>0.9  
120-130lm/w  
5&7 Years Warranty

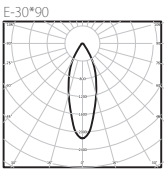
3000K 4000K 5000K 6000K

## Beam Angle



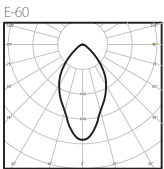
30°\*30°

Sharp distribution  
Applied to tight gap  
focusing on objects.



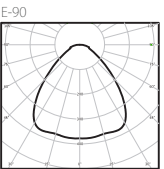
30°\*90°

Sharp distribution  
Applied to tight gap  
focusing on objects.



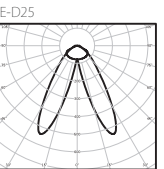
60°

Narrow distribution  
Applied to narrow  
passageway



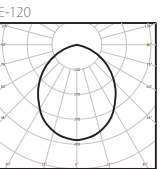
90°

Wide distribution  
Applied to wider  
passageway



25°/25°

Double asymmetric  
Applied to large  
gap between shelves



120°

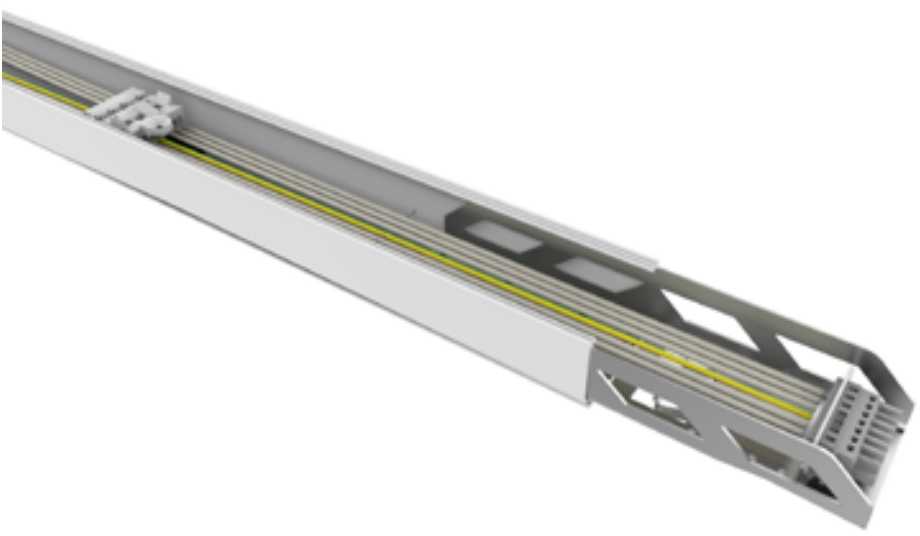
Flat distribution  
Applied to open area with  
lower roof height

- TUV, GS and RCM certificate, Lifud / Philips / Osram driver.
- Different beam angle available: 30°, 60°, 90°, 120°, 25°/ 25°, 30°\*30°, 30°\*90°
- 2FT is for supplement length or to adjust the length in the continual connection application.



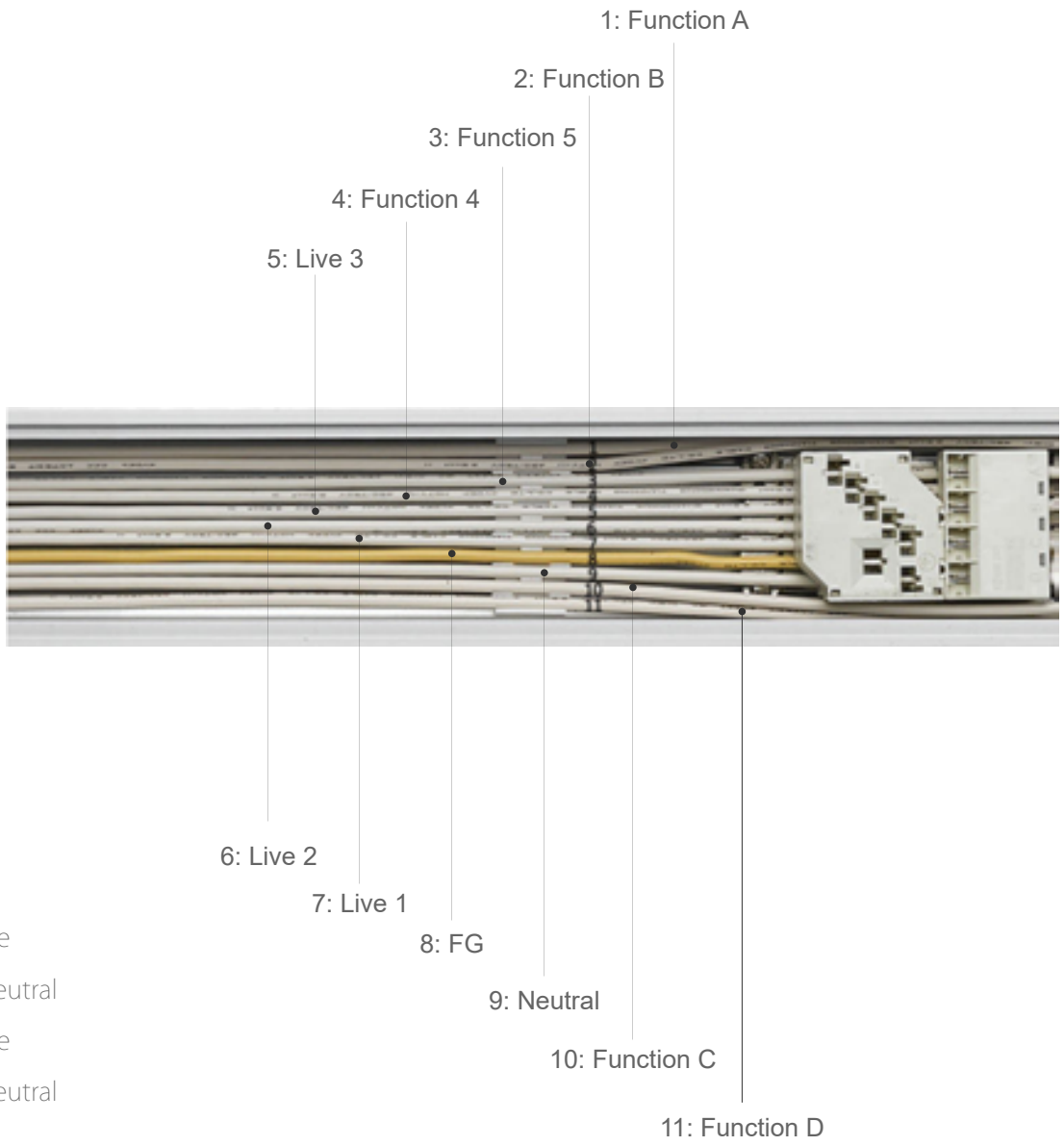
# Linear Lighting System:

## Trunking Rail



### Pre-wired Trunking Rail Saves Installation Time & Cost

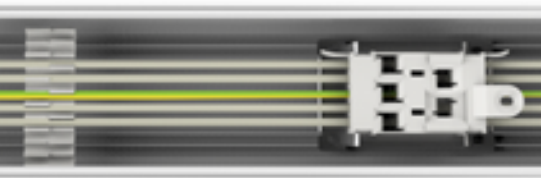
- 2FT / 5FT /10FT /15FT Pre-wired connector makes it easier and faster to connect the linear trunking rail.
- 5, 7, 11 wires supports more function.
- 44~220 pieces connection as 1 line.



### Wire Definition

- FG: Ground
- EL1: Emergency 1 supply live
- EN1: Emergency 1 supply neutral
- EL2: Emergency 2 supply live
- EN2: Emergency 2 supply neutral
- DIM+: Positive 0-10V input
- DIM-: Negative 0-10V input
- DA/L: Positive DALI input, or live when works as dimming switch
- DA/N: Negative DALI input, or neutral when works as dimming switch
- CHR: Charge input for internal battery, mainly for detection of EMG1 or EMG2.

5 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT



5-wires trunking rail  
\* Green: FG  
\* Blue: N  
\* Black: L1, L2, L3 phase selection knob

Connector Plug Type in Luminaire

3 Pins wire connector plug  
4 Pins wire connector plug

Function Description

Basic Lighting  
Basic Lighting + Emergency

7 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT



7-wires trunking rail  
\* Green: FG  
\* Blue: N  
\* Red/White: D+/D-,DIM+/DIM-  
\* Black: L1, L2, L3 phase selection knob

5 Pins wire connector plug  
  
6 Pins wire connector plug

Basic Lighting;  
Basic Lighting + Dimming  
Basic Lighting + Battery Emergency  
Basic Lighting + Emergency  
  
Basic Lighting  
Basic Lighting + Dimming  
Basic Lighting + Dimming + Battery Emergency

11 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT



11-wires trunking rail  
\* D+/D-: Dimming driver  
\* A/B/C/D: Emergency driver and battery  
\* L: L1, L2, L3 phase selection knob

9 Pins wire connector plug

Basic Lighting + Dimming + Battery Emergency + Emergency Power System

# Trunking Rail

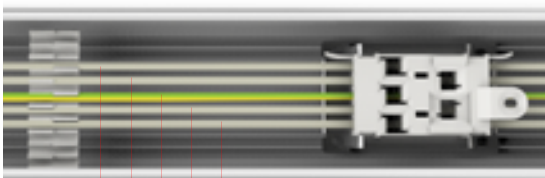
5 Wires, 3 Pins

5 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT

Plug-in Connector

Function Description

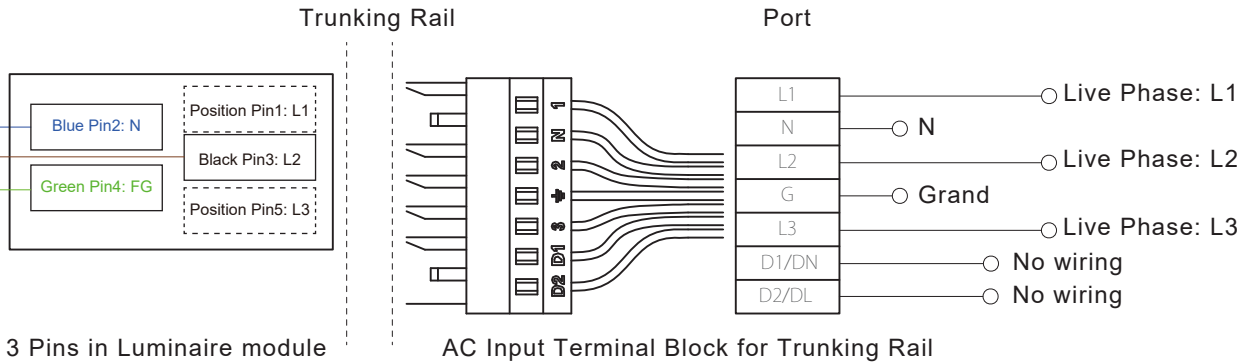
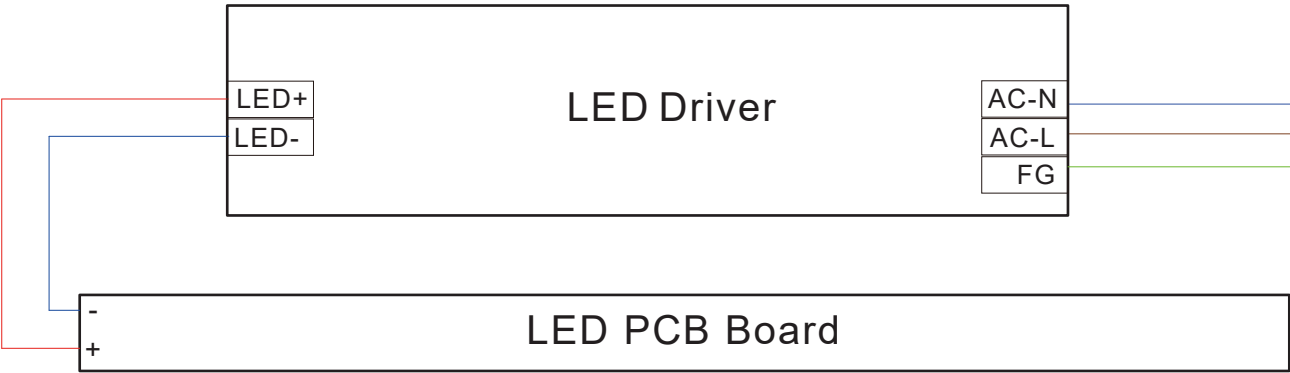
12345



5-wires trunking rail  
\* Green: FG  
\* Blue: N  
\* Black: L1, L2, L3 phase selection knob

Basic Lighting

L1N L2 FG L3



# Trunking Rail

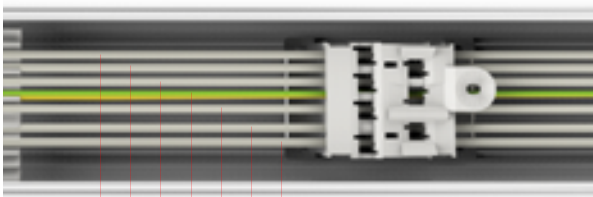
7 Wires, 5 Pins

7 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT

Plug-in Connector

Function Description

1234567



1 2 3 4 5 6 7

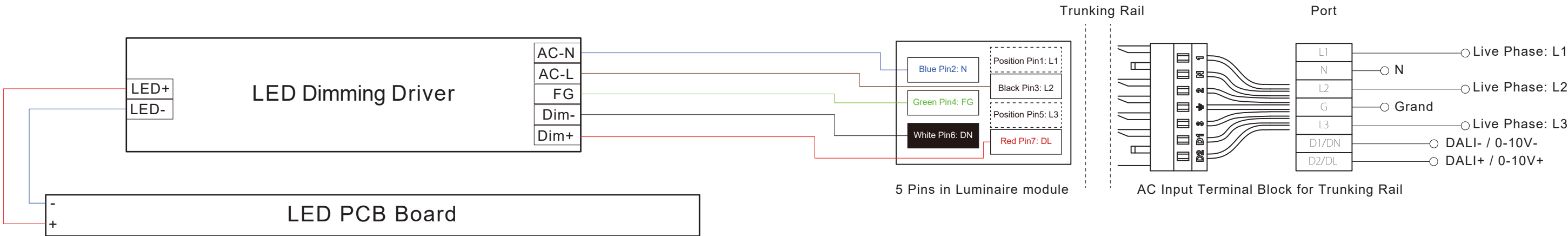


7-wires trunking rail

- \* Green: FG
- \* Blue: N
- \* Red/White: D+/D-,DIM+/DIM-
- \* Black: L1, L2, L3 phase selection knob

Basic Lighting + Dimming

L1N L2 FG L3 D1/DN D2/DL



# Trunking Rail

11 Wires, 9 Pins

11 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT	Plug-in Connector	Function Description	1	2	3	4	5	6	7	8	9	10	11
--	-------------------	----------------------	---	---	---	---	---	---	---	---	---	----	----

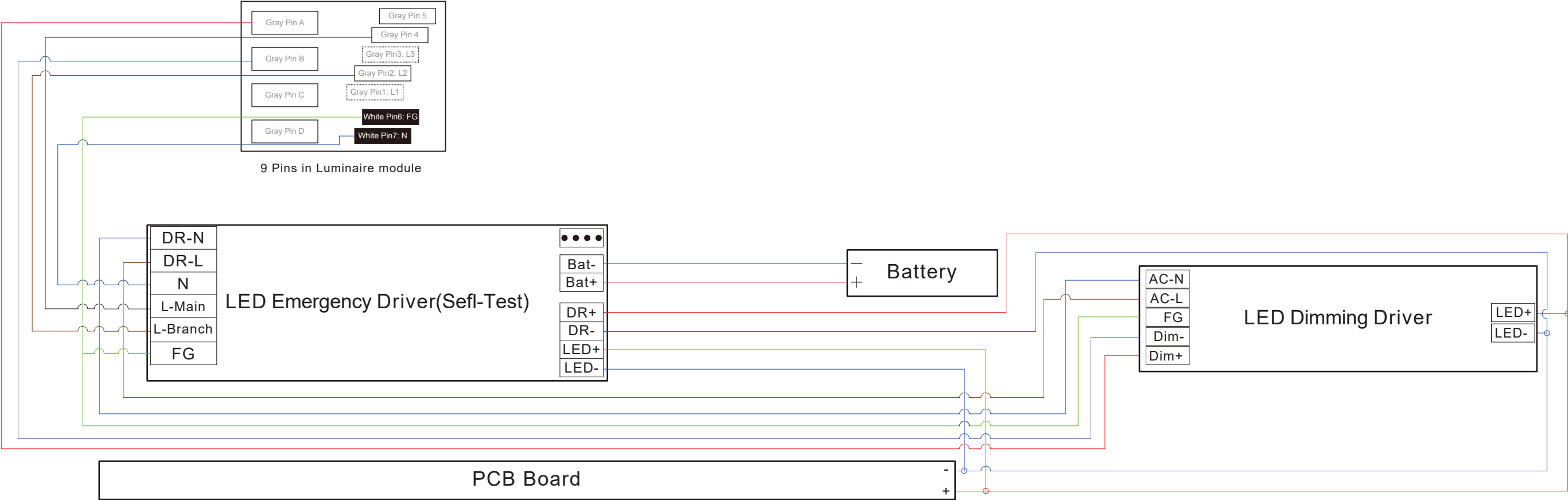


11-wires trunking rail  
\* D+/D-: Dimming driver  
\* A/B/C/D: Emergency driver and battery  
\* L: L1, L2, L3 phase selection knob

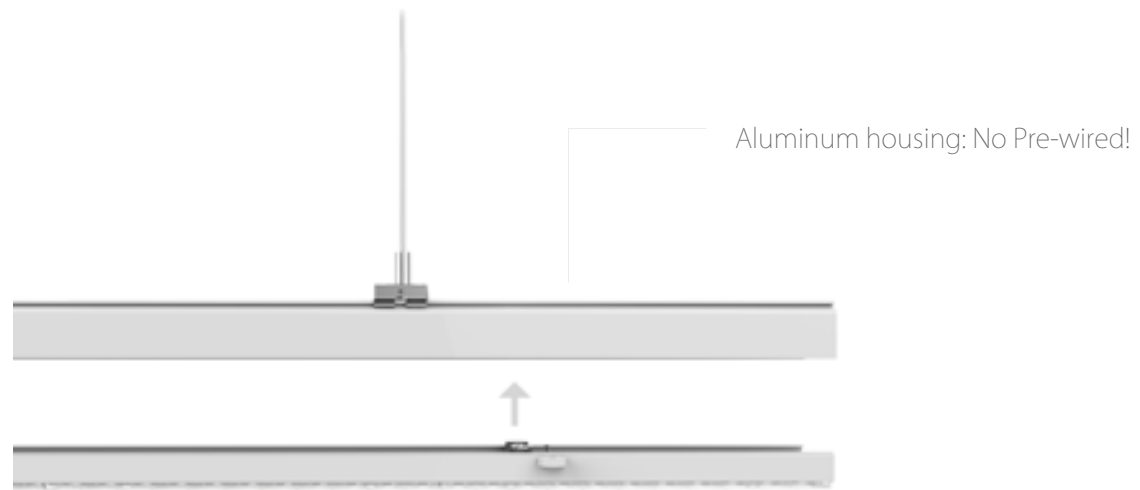
Basic Lighting + Dimming

A    B    Fn4    Fn5    L3    L2    L1    FG    N    C    D

1 2 3 4 5 6 7 8 9 10 11



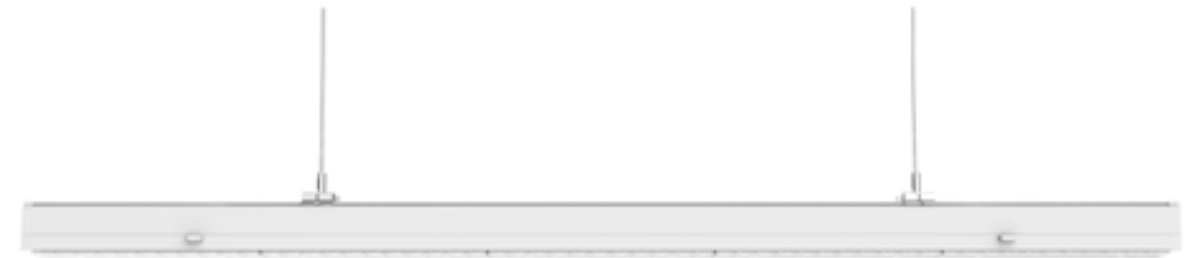
## Linear Single Lamp: E LINE



Aluminum housing: No Pre-wired!

Luminaire: E Line

- Function Module:
- Dimming
- Emergency
- Sensor
- Track Rail



Single Lamp Suspending, No Connection

No wires and connector in the aluminum housing, no connection function.

# Linear Single Lamp

E LINE Luminaire: 130lm/w



- TUV, GS and RCM certificate, Lifud / Philips / Osram driver.
- 30°, 60°, 90°, 120°, Double 25°, different beam angle available.
- 2FT is for supplement length or to adjust the length in the continual connection application.



2FT: 576\*65\*26mm

SMD5630  
Power: 16w / 20w / 24w / 28w  
CRI>80, PF>0.9  
120-130lm/w  
5&7 Years Warranty

3000K 4000K 5000K 6000K

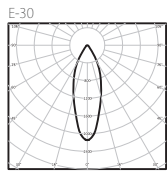


5FT: 1436\*65\*26mm

SMD5630  
Power: 36w / 48w / 60w / 72w  
CRI>80, PF>0.9  
120-130lm/w  
5&7 Years Warranty

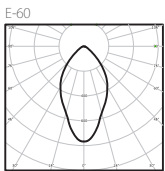
3000K 4000K 5000K 6000K

## Beam Angle



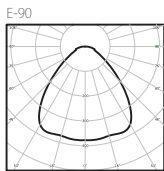
30°

Sharp distribution  
Applied to tight gap  
focusing on objects.



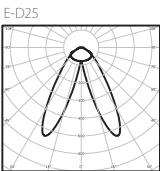
60°

Narrow distribution  
Applied to narrow  
passageway



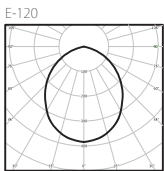
90°

Wide distribution  
Applied to wider  
passageway



25°/25°

Double asymmetric  
Applied to large  
gap between shelves

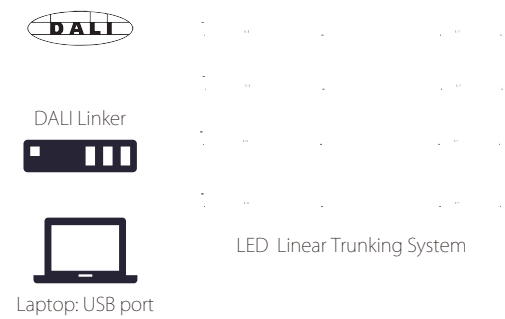


120°

Flat distribution  
Applied to open area with  
lower roof height

# Dimming

## DALI Dimming



### DALI Dimming and LED Linear Trunking System

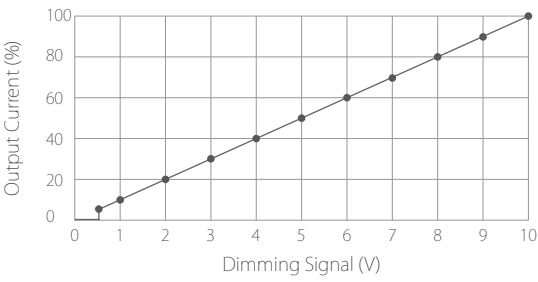
CooCo LED Linear Trunking System with DALI function helps to intelligently control lighting in industry application, achieving to manage the rooms lighting flexibly. User can divide group according to different lighting elements to control an-d manage rooms lighting. It will save costs and e-nergy greatly.

Trunking rail:	7 wires
Brightness:	0% to 100%
System control:	64 elements, 16 groups, 40-50 pieces lamps

### Power Supply: Osram DALI

Standard protocol:	EN 60598-2-22 and IEC 61347-2-13, compatible with DALI control system.
Dimming range:	0-100%, 0.1% possible.
Power factor:	PF>0.95, Efficiency > 85%
Lifespan:	over 100000hours (Tc= 65°C)
Total harmonic distortion:	<10%
Certificates:	Certificates: ENEC, VDE, EMC,Dali association

## 0-10V Dimming



### 0-10V Dimming and LED Linear Trunking System.

We integrate the 0-10V dimming into the led linear trunking system. It helps to save energy greatly with easy dimming.

Trunking rail:	7 wires
10V:	100% Brightness
0V:	0% Brightness

### Power Supply

Function:	0-10V & PWM & Rx Dimmable
Dimming range:	0%-100%
Power factor:	High PF(PF > 0.9 @ 230Vac)
Standard protocol:	Comply with IEC61000-4-5 Surge Level
Certificates:	Certificates: CB, TUV, CE, RCM, UL, FCC





# Sensor Module



2FT: 576\*65\*50mm / 5FT: 1436\*65\*50mm

## Daylight sensor + Motion sensor

Sensor	Meryteck
Dimming	0-10V dimming
Trunking rail:	7 wires, 11wires
Maximum watt:	400W in a row



0-10V Dim



Hold Time  
5s~30min



Automatic  
Dimming



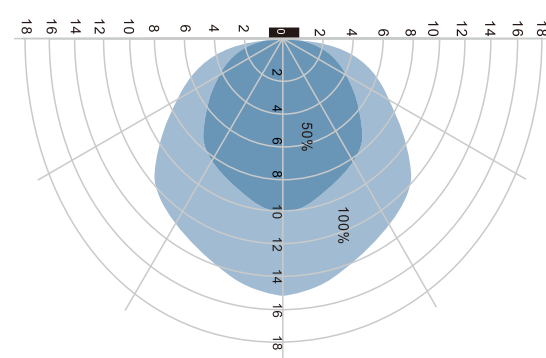
Max.8M



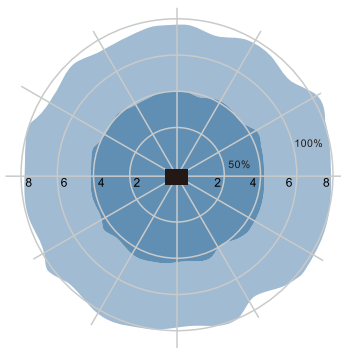
Mounting Height  
15min Max.

## Detection Area

Maximum Detection zone: 16m (D) x 15m (H);  
Detection angle: 360°

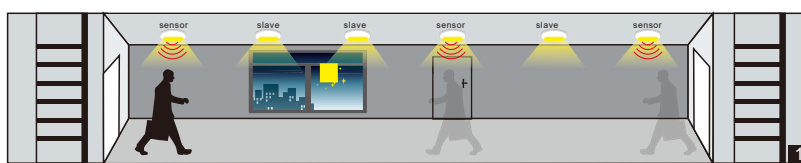


Cross Section Pattern (Unit: m)

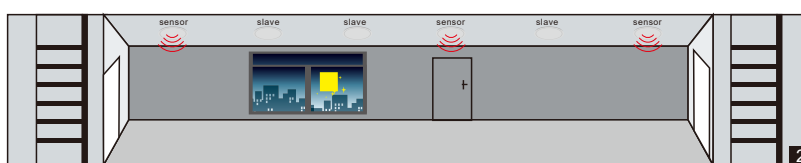


Horizontal Plane Pattern (Unit: m)

## Motion sensor function

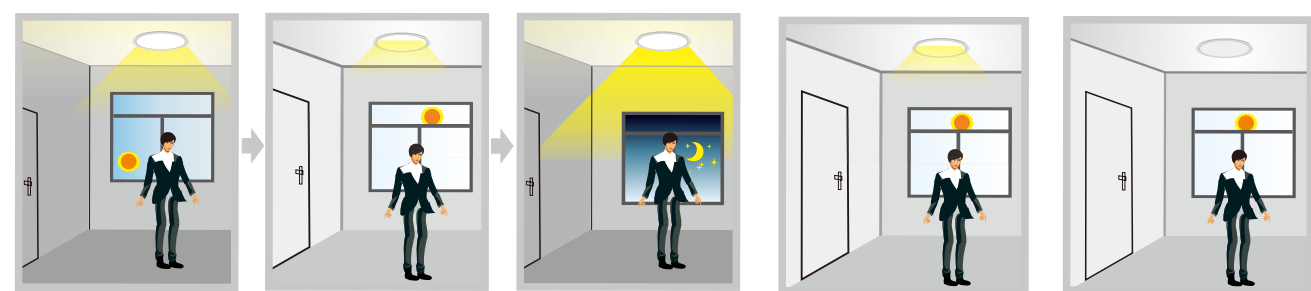


**1** Lighting up: Any movement is detected from any direction, all lamps synchronously switch on.



**2** Dim: No motion is detected in detection area, all lamps synchronously dim to a low light level after hold time.  
After stand-by period, the lamps switch off if no movement is detected in the detection zone.

## Daylight sensor function



- 1** The lamp lights on 100% illumination or dims to maintain the preset illumination level against ambient light.
- 2** The lamp dims to minimum light level but never turn off even if with sufficient ambient light.
- 3** Users can switch off the light manually.

# Emergency Module

2 types of emergency solution for user's choice:

- External emergency supply
- Built-in battery supply



## ① Self-Testing / Testing Button

Emergency module can test automatically by themselves timely. There also testing button for user testing.

## ② NIMH built-in battery

There are 2 choices of battery with high temperature resistance to support the luminaire's brightness: 6w with 1800mAh and 12w with 3600mAh.

## ③ Emergency Driver


The emergency driver supplies to luminaire automatically when power cuts, and switches to external central generator or built-in battery.

## ④ LED driver

The LED driver supplies to the luminaire when it is not emergency. There is 36W to 80W with Lifud, Philips or Osram driver option.

# Emergency Solution

Solution 1 External Emergency Supply




Emergency Driver + LED Driver

When power fails to supply to the led driver L1, luminaire automatically switches to external emergency power supply EL1 /L2, the battery will support luminaire 100% brightness.

CHR	L1	Battery	Light Brightness
●	○	○	0
●	●	○	100%
○	○	●	100%

Solution 2 Built-in Battery Supply



Build-in Battery + Emergency Driver + LED Driver

When the power fails to support the led driver, it will automatically switch to emergency driver, then the emergency battery will support the luminaire with 6W or 12W for user's.

CHR	L1	Battery	Light Brightness
●	○	○	0
●	●	○	100%
○	○	●	30%

# Emergency Built-in Battery

	1800mAh Battery	3600mAh Battery
Mains Power	6 W	12 W
Lumen	780 lm	1560 lm
Charge period	24 hours	
Max. case temp.	75℃	
Over-heat protection	Over-heat protection with auto-reset.	
EMC standard	EN55015 , EN61547	
Safety standard	EN50172, EN61347-2-7, EN61347-2-13 , IEC62034 ,BS5266	
Certification	Semko, CB, CE, EMC	
Dielectric strength	Input→output: 3750VAC	
IP grade	IP20	

# Emergency Self-Testing



## Self-Testing Driver

Self-testing function for emergency solution of the led linear trunking system use the driver which interrupt the permanent mains supply at pre-determined intervals to perform the requested routine testing. It saves a lot of time and costs to test timely in the application.










Function	LED indication and Buzzer warning
Standard	IEC62034, BS5266, EN5017
Testing Items	Status of the battery, Status of the lamp Charge condition, , Functional test, Duration test
Testing Time	3min / month; 1h / 6 months & 20min (12W); 3h / 12months & 1h (12W);
Advantage	LED indication and Buzzer warning. Auto-commissioning, Permanently monitors bat- tery and charge condition. Automatic delayed test.

## LED Status Indicator

Wire for status indicators is to show the operation status of the emergency lighting system and regular performing functional test.



- Green indicator  
On: Mains supply is connected  
Off: Mains supply is disconnected
- Red indicator  
On: Battery is charging  
Off: Battery charging finished
- Yellow indicator  
On: System failure

LED Indicator	Buzzer	Status
<span>●</span> <span>○</span> <span>○</span> slowly flashes: 1 times / 3 seconds	 buzzer beeps: 10 seconds / hour	Battery failure
<span>●</span> <span>●</span> <span>○</span> rapidly flashes: 2times / 3 seconds	 buzzer beeps : 10 seconds / hour.	LED lamp failure
<span>◐</span> <span>◐</span> <span>◐</span> rapidly flashes: 3 times / 3 seconds	 buzzer beeps : 10 seconds / hour.	Emergency / LED driver failure
<span>●</span> <span>●</span> <span>●</span> <span>●</span> <span>●</span> constantly on	 no buzzer beep	Healthy condition
<span>◐</span> <span>◐</span> <span>◐</span> <span>◐</span> <span>◐</span> slowly flashes: 1 time / 1 second	 no buzzer beep	Battery charge
no indicators	 no buzzer beep	Battery discharge
<span>●</span> <span>○</span> <span>○</span> slowly flashes: 1time / 3 seconds	 no buzzer beep	Monthly test
<span>●</span> <span>●</span> <span>○</span> flashes: 2times / 3 seconds	 no buzzer beep	6 month test
<span>◐</span> <span>◐</span> <span>◐</span> quickly flashes: 3 times / 3 seconds	 no buzzer beep	12 month test

# Accessory



## Female AC Input Terminal Block A

For connection with input wires from endcap.



## “—” end box:

For covering the connector of trunking rail when finishing the connection at the end.



## Surface Mounted Kits / Suspension Kits

Material: stainless steel  
Size: L53\*W36\*H15mm  
Cord Length: 2m  
3m Max distance between two suspension points



## “—” type feed-in connector:

For making it easier to input wires on hand. It can be replaced by terminal block.



## End Cap

Print customer’s logo  
Output wires by the hole  
2 hole 5wires, 7 wires and 11 wires



## “L” type feed-in connector:

For trunking rail connection by corner.



## Female AC Input Terminal Block B

For connection with input wires from the back of trunking rail.



## “T” type feed-in connector:

For trunking rail connection by two corner.



## Blank Cover

For covering the trunking rail which has no luminaire.  
2FT/5FT  
White / Black



## “X” type feed-in connector:

For trunking rail connection in the central corner.

# Application



WAREHOUSE

---



SUPERMARKET

---



WOKSHOP

---



GYM

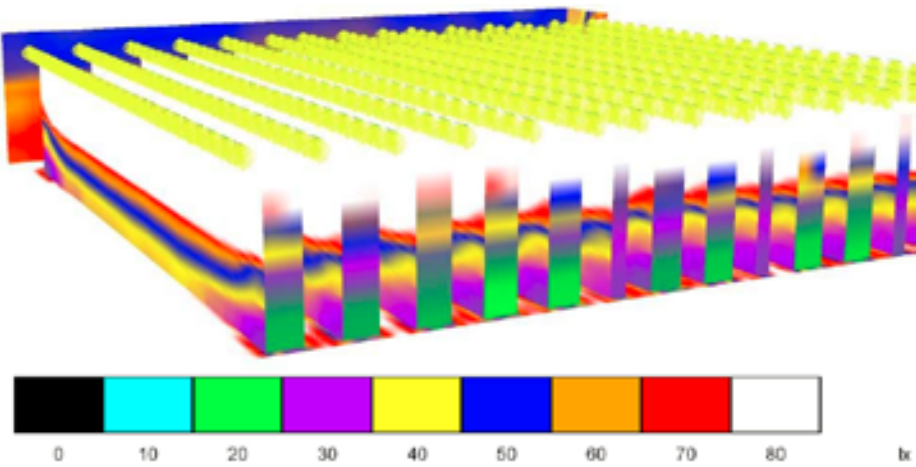
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## Warehouse

In warehouse with high hall, comparing with LED high bay or LED tri-proof light, LED Linear Trunking System can save more time and cost. Modular lighting makes it easy to install.



Height of Room: 10.000 m, Mounting Height: 8.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:1209

Surface	$\rho$ [%]	Eav[lx]	Emin[lx]	Emax[lx]	u0
Workplane	/	142	28	184	0.197
Floor	20	78	9.98	162	0.128
Ceiling	70	125	33	186	0.261
Walls(21)	50	129	22	858	/

### Workplane:

Height:	0.850 m
Grid:	64 x 64 Points
Boundary Zone:	0.000 m

### Luminaire Parts List:

No.	Pieces		$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P[W]
1	389	COOCO LIMITED LED LINEAR TRUNKING SYSTEM CCLS-E5FS72-65D25 (1.000)	9596	9503	71.8
Total:			3634865	Total: 3631563	26738

# Energy Saving Analysis

• Application:	Warehouse	• Luminaire:	CCLS-E5FS72-65D25
• Area:	60.00 m*30.00 m	• Beam angle:	Double 25 degree
• Lighting Height:	8.5 m	• Room Height:	10 m
• Maintenance factor:	0.7	• Number of Light:	389 pieces
• Illuminance:	at least 100 lux	• Function:	0-10V, DALI
• Gap of Shelves:	1.5 m		

	LED High Bay	LED Tri-proof Light	E Line LED Linear Trunking System
Power of Luminaire(Watt)	400	50	72
Number of Light(Pieces)	101	661	389
Total Power Consumption(Watt)	40400	33050	28008
Total Lumens(Lm)	3634865	3634865	3634865
Luminous Efficiency(lm/w)	90	110	130
Work Hours p.d.(Hours)	12	12	12
Kilowatt Hours p.d(kWh)	484.8	396.6	336.1
Energy Saving cost p.d(\$)	\	\$88.2	\$148.7

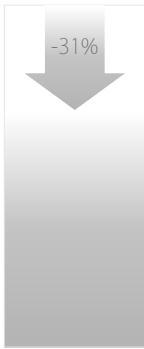
How much energy cost saving ?



484.8 kWh p.d

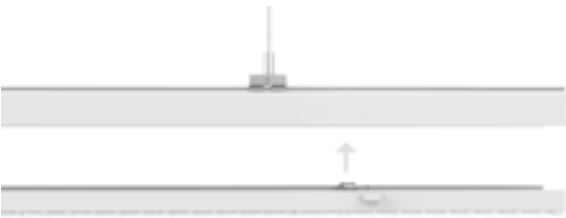


396.6 kWh p.d



336.1 kWh p.d

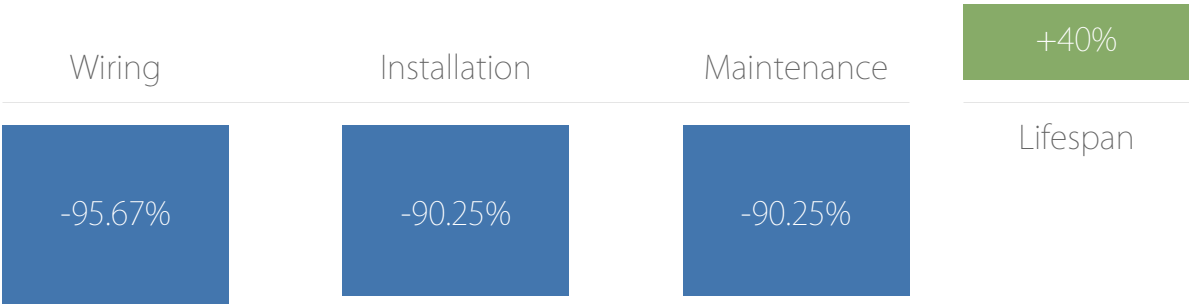
\* The price of electricity is \$1/kWh as assumed.



## LED Linear Trunking System

- Pre-wired Trunking Railway reduces 95.67% of cost of wiring
- Flexible lock bar design saves 90.25% cost of installation
- Modularized design reduces 90.25% maintenance cost
- High quality module expands lifespan 40%
- TUV, GS and RCM certificate, 5 years guarantee

How much labor cost saving ?



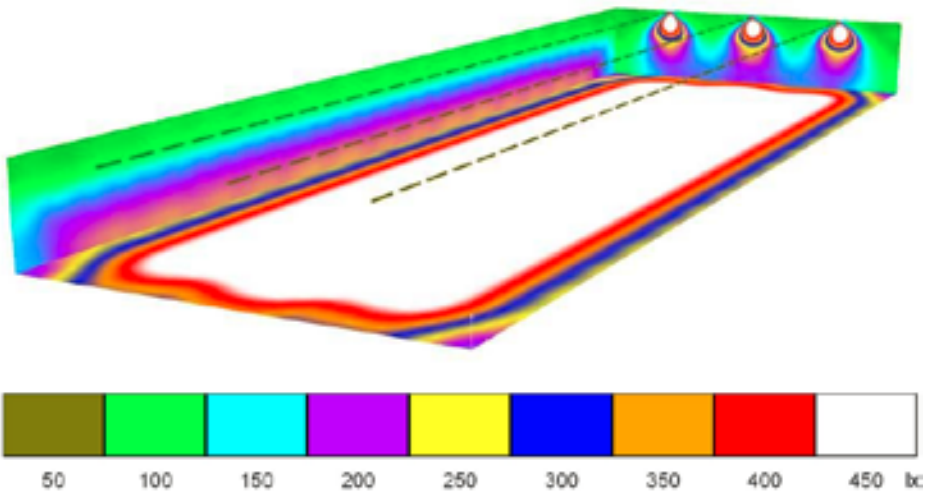
\* The data is based on local salary in Shenzhen City, China.





## Supermarket

Because of its wide area, the different heights for shelves, the aim of showing goods well and the crowded environment, there are a lot of special requirements for led light in supermarket.



Height of Room: 6.000 m, Mounting Height: 4.000 m, Light loss factor: 0.80

Values in Lux, Scale 1:374

Surface	$\rho$ [%]	Eav[lx]	Emin[lx]	Emax[lx]	u0
Workplane	/	462	139	617	0.301
Floor	20	448	179	563	0.399
Ceiling	70	93	61	689	0.654
Walls(21)	50	162	76	814	/

### Workplane:

Height:	0.800 m
Grid:	128x 64 Points
Boundary Zone:	0.000 m

### Luminaire Parts List:

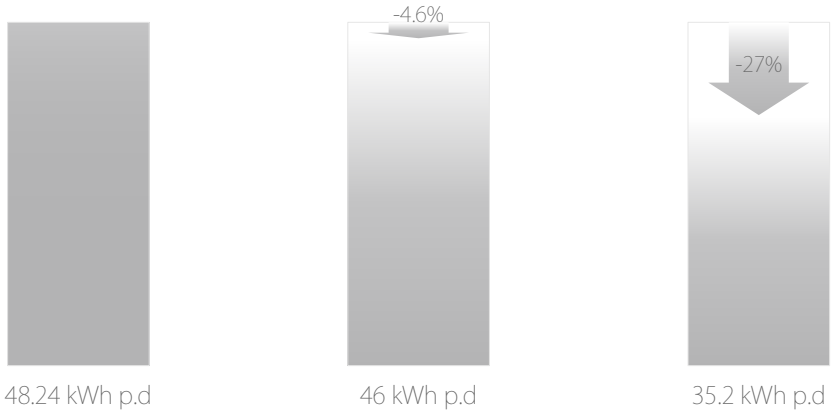
No.	Pieces		$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P[W]
1	83	COOCO LIMITED LED LINEAR TRUNKING SYSTEM CCLS-C5FD40-5090 (1.000)	5444	5200	40.4
Total:			506263	483600	3757.2

# Energy Saving Analysis

• Application:	Supermarket	• Luminaire:	CCLS-C5FD40-5090
• Area:	50.40 m*17.30 m	• Beam angle:	90 degree
• Lighting Height:	4 m	• Room Height:	6 m
• Maintenance factor:	0.80	• Number of Light:	83 pieces
• Illuminance:	at least 300 lux	• Function:	Emergency, DALI
• Gap of Shelves:	1.8 m		

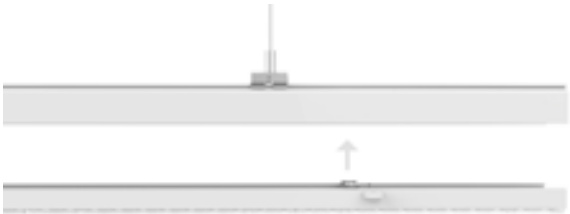
	LED T8 Tube Light	LED Tri-proof Light	C Line LED Linear Trunking System
Power of Luminaire(Watt)	36	50	40
Number of Light(Pieces)	134	92	83
Total Power Consumption(Watt)	4824	4600	3520
Total Lumens(Lm)	506263	506263	506263
Luminous Efficiency(lm/w)	105	110	145
Work Hours p.d.(Hours)	10	10	10
Kilowatt hours p.d(kWh)	48.24	46	35.2
Energy Saving cost p.d(\$)	\	0.224	1.304

How much energy cost saving ?



\* The price of electricity is \$0.1/kWh as assumed.

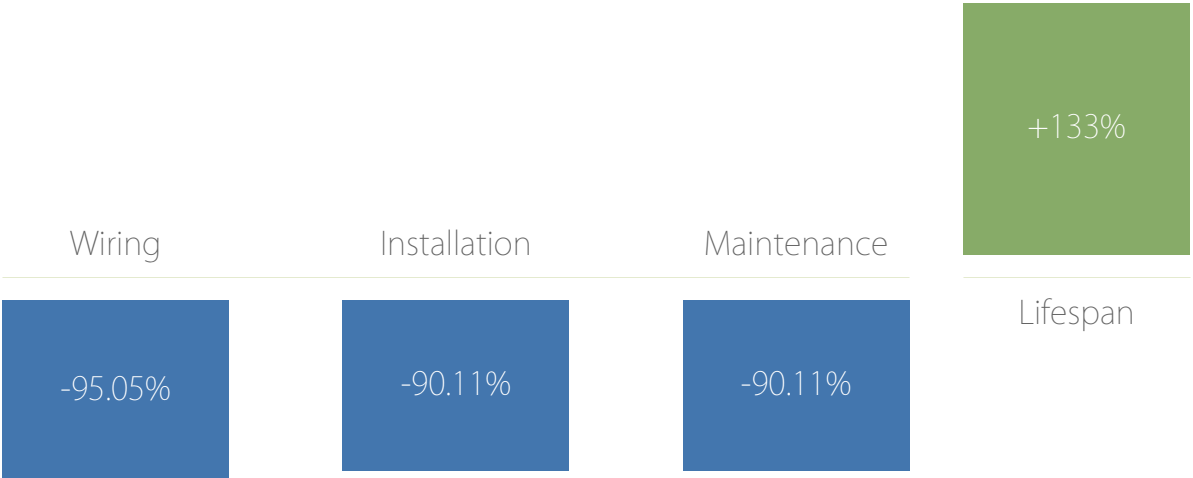
# Labor Cost Saving Analysis



## LED Linear Trunking System

- Pre-wired Trunking Railway reduces 95.05% of cost of wiring
- Flexible lock bar design saves 90.11% cost of installation
- Modularized design reduces 90.11% maintenance labor cost
- High quality module expands 133% lifespan
- TUV, GS and RCM certificate, 7 years guarantee

How much labor cost saving ?

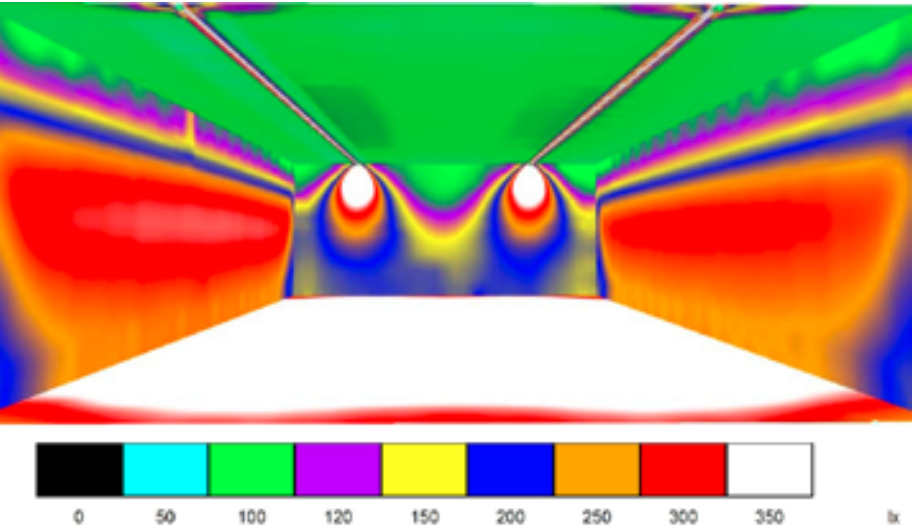


\* The data is based on local salary in Shenzhen City, China.



## Workshop

Working environment has great impact on workers' work efficiency. And, lighting places important role in creating enthusiastic workingenvironment. Different workshops have different temperature and humidity range. It requires high quality to support the operation.



Height of Room: 6.00 m, Mounting Height: 6.00 m, Light loss factor: 0.65

Values in Lux, Scale 1:500

Surface	$\rho$ [%]	Eav[lx]	Emin[lx]	Emax[lx]	u0
Workplane	/	454	255	536	0.561
Floor	20	435	253	499	0.582
Ceiling	70	104	72	843	0.690
Walls(21)	50	225	91	829	/

### Workplane:

Height:	0.850 m
Grid:	128x 64 Points
Boundary Zone:	0.000 m

### Luminaire Parts List:

No.	Pieces		$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P[W]
1	45	COOCO LIMITED LED LINEAR TRUNKING SYSTEM CCLS-C5FS80-6560 (1.000)	8672	11658	80.4
Total:			537677	523900	1206

# Energy Saving Analysis

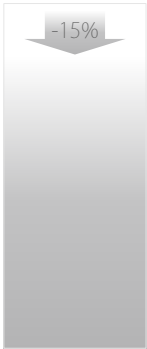
• Application:	Workshop	• Luminaire:	CCLS-C5FS80-6560
• Area:	45.00 m*15.00 m	• Beam angle:	60 degree
• Lighting Height:	6 m	• Room Height:	6.00 m
• Maintenance factor:	0.65	• Number of Light:	62 pieces
• Illuminance:	at least 400 lux	• Function:	0-10V, DALI
• Gap of Shelves:	2.0 m		

	LED High Bay	LED T8 Tube Light	C Line LED Linear Trunking System
Power of Luminaire(Watt)	400	36	80
Number of Light(Pieces)	15	142	46
Total Power Consumption(Watt)	6000	5112	3680
Total Lumens(Lm)	537677	537677	537677
Luminous Efficiency(lm/w)	90	105	145
Work Hours p.d.(Hours)	10	10	10
Kilowatt hours p.d(kWh)	60	51.12	36.8
Energy Saving cost p.d(\$)	\	0.888	2.32

How much energy cost saving ?



60 kWh p.d



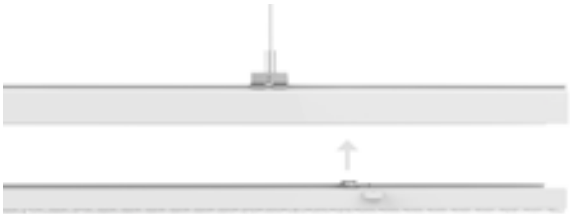
51.12 kWh p.d



23.2 kWh p.d

\* The price of electricity is \$0.1/kWh as assumed.

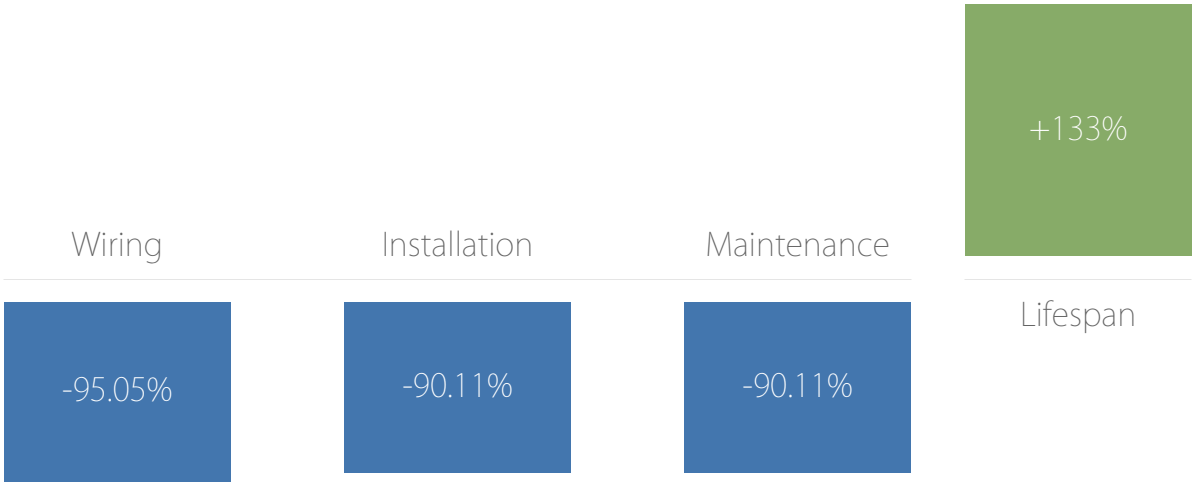
# Labor Cost Saving Analysis



## LED Linear Trunking System

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How much labor cost saving ?



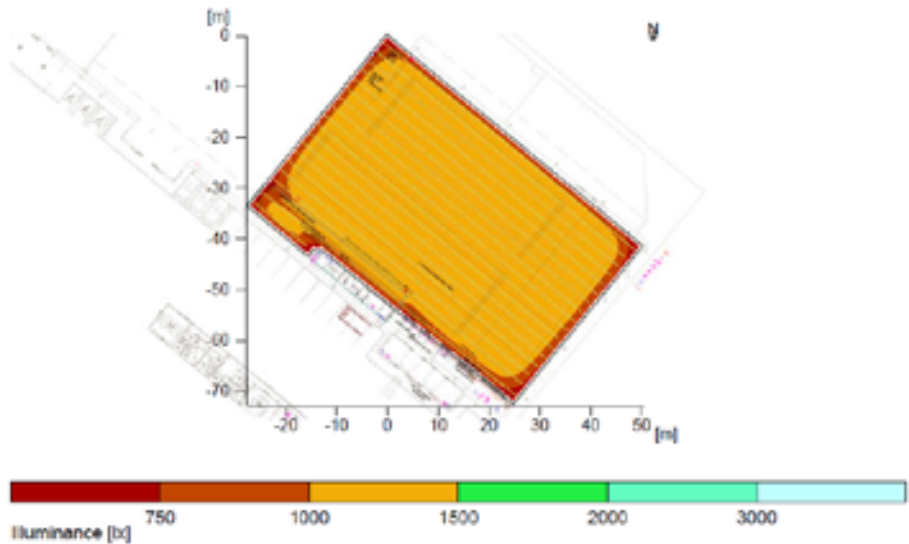
\* The data is based on local salary in Shenzhen City, China.





## Gym

Gym and hall with high roof and wide-open area requires high lumen of led light.  
LED linear trunking system with different beam angle and high lumen not only



Height of Room: 7.800 m, Mounting Height: 6.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:1 209

Surface	$\rho$ [%]	Eav[lx]	Emin[lx]	Emax[lx]	u0
Workplane	/	1280	466	1470	0.36
Floor	50	830	302	1020	0.26
Ceiling	70	230	73	276	0.32
Walls(21)	50	392	54	686	0.14

### Workplane:

Height:	0.750 m
Grid:	64 x 64 Points
Boundary Zone:	0.000 m

### Luminaire Parts List:

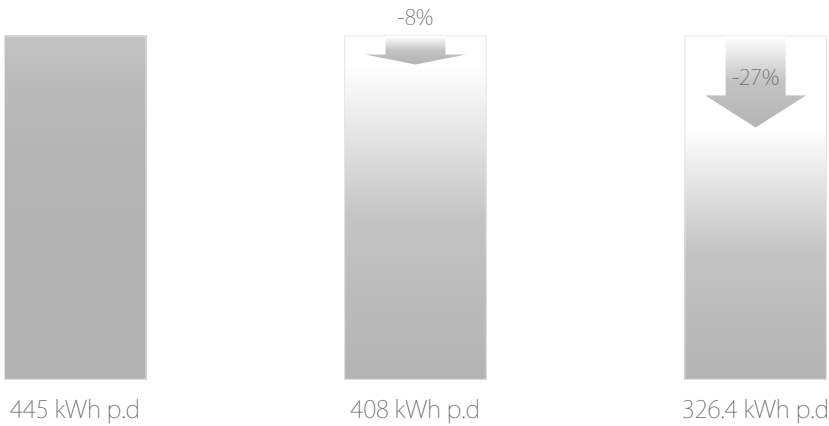
No.	Pieces		$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P[W]
1	340	COOCO LIMITED LED LINEAR TRUNKING SYSTEM CCLS-C5FS80-6060 (1.000)	12010	12000	80
Total:			4083400	4079940	27200

# Energy Saving Analysis

• Application:	Warehouse	• Luminaire:	CCLS-C5FS80-6060
• Area:	2687.94 m²	• Beam angle:	60 degree
• Lighting Height:	6.5 m	• Room Height:	7.8 m
• Maintenance factor:	0.7	• Number of Light:	340 pieces
• Illuminance:	at least 1200 lux	• Function:	DALI

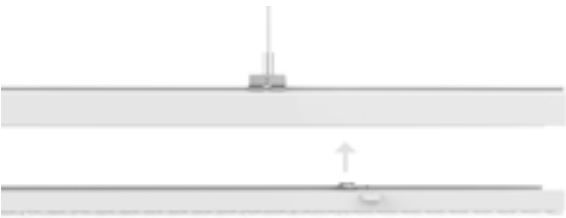
	LED Tri-proof Light	LED High Bay	C Line LED Linear Trunking System
Power of Luminaire(Watt)	50	200	80
Number of Light(Pieces)	742	170	340
Total Power Consumption(Watt)	37090	34000	27200
Total Lumens(Lm)	4079940	4079940	4079940
Luminous Efficiency(lm/w)	110	120	150
Work Hours p.d.(Hours)	12	12	12
Kilowatt Hours p.d(kWh)	445	408	326.4
Energy Saving cost p.d(\$)	\	3.7	\$11.86

How much energy cost saving ?



\* The price of electricity is \$0.1/kWh as assumed.

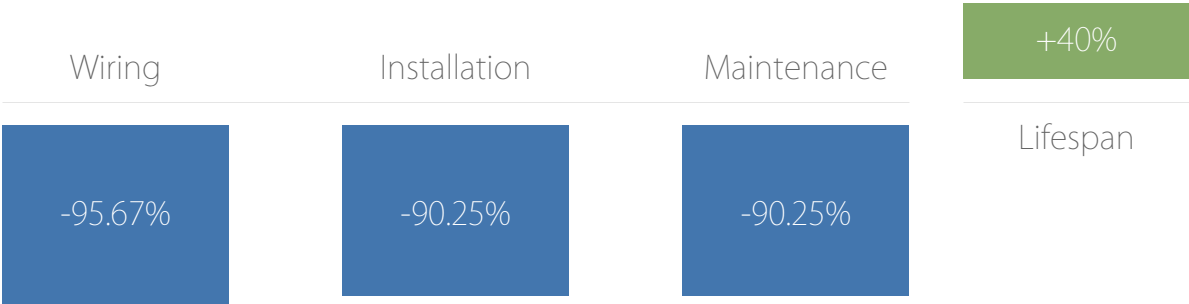
# Labor Cost Saving Analysis



## LED Linear Trunking System

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How much labor cost saving ?



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