

To Be Your Light Designer



About our Production - Partner

He founded in 2009, is dedicated to offering lighting system solution for various projects with the most cost-effective and optimal illumination.

They have around 200 workers, 2 production lines, passed ISO9001:2000 and ISO14001: 2004 with full equipped management system.

They pursue modularized, intelligent, and simplified lighting to help project contractors and users save installation and maintenance costs, and to achieve design idea with elegant feature. Our main products include LED Linear Trunking System for industry lighting, LED Line Continuous System and LED Magnet Track System for office lighting.

He will be your lighting designer and exclusive expert, supporting you with tailor-made lighting solutions and VIP service to open market together.

Vision

Simplified Design

Network Intelligence

Modularization

Cost Effectiveness









About Lin	near	Specificatio)n	Function		Applica	tion
Overview	1-2	Linear Trunking System	7-22	Dimming Module	33-34	Warehouse	45-48
Characteristic	3-6	Linear Single Lamp	23-28	Sensor Module	35-36	Supermarket	49-52
		Track Rail Module	29-32	Emergency Module	37-40	Workshop	53-56
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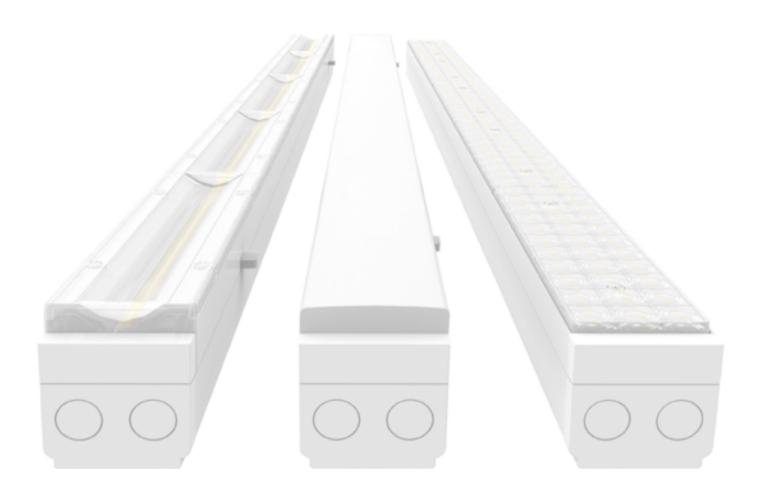


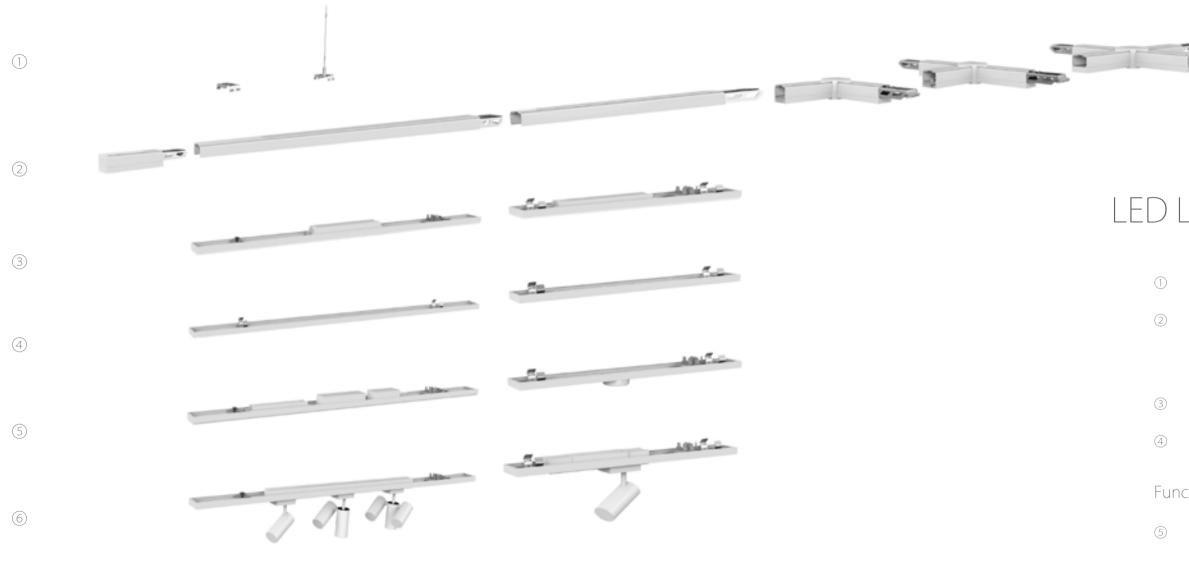
Europe Design Patent

003111848-0001 C Line: 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
- "—" Type ConnectorTrunking 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

- Emergency Module (5FT)Sensor Module (5FT / 2FT)
- 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, **2** years warranty.



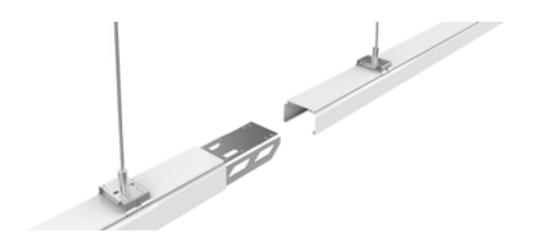


Saving Energy

- C Line: 160lm/w
- E Line: 130lm/w
- Beam Angle: 30°,60°,90°,120°,Double 25°,Right 25°,Left 25°,30° / 90°

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
- Sensor: Motion / Daylight / 0-10V Dimming
- Track Rail Module

Linear Trunking System: E Line & C Line





Linear Trunking System

Luminaire: Fline – 1301 M/W



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







2FT: 576*65*26r	nm

SMD5630

Power: 16w / 20w / 24w / 28w

CRI>80, PF>0.9

120-130lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

5FT: 1436*65*26mm

SMD5630

Power: 36w / 48w / 60w / 72w

CRI>80, PF>0.9

120-130lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

Beam Angle













30°

Sharp distribution Sharp+wide distribution Narrow distribution Applied to tight gap focusing on objects.

30°*90°

30° for left and right, 90° for the forth and back of linear light.

60°

Applied to narrow passageway

90°

Wide distribution Applied to wider passageway

25°/25° Double asymmetric

Applylied to large gap between shelves

Flat distribution

120°

Applied to open area with lower roof height

Linear Trunking System

Luminaire: C Line - 1301 M/W & 1601 M/W



- Smooth linear optical lens by **Nematec** designed, with higher light efficiency.
- TUV, GS and RCM certificate, TUV passed driver.
- Different beam angle available: 30°, 60°, 90°, 25°/ 25°, Left 25°, Right 25°.
- 2FT is for supplement length or to adjust the length in the continual connection application.







2FT: 567*65*36mm

SMD5630

Power: 16w / 20w / 26w / 32w

CRI>80, PF>0.9

120lm/w-130lm/w, 150-160lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

5FT: 1410*65*36mm

SMD5630

Power: 40w / 50w / 65w / 80w

CRI>80, PF>0.9

120lm/w-130lm/w, 150-160lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

Beam Angle



30° Sharp distribution

Applied to tight gap focusing on objects



60°

Applied to narrow

passageway

Narrow distribution

Wide distribution Applied to wider passageway

90°



25°/25°

Double asymmetric Applied to large gap between shelves



Left 25°

Left asymmetric Applied to exhibition focusing on goods



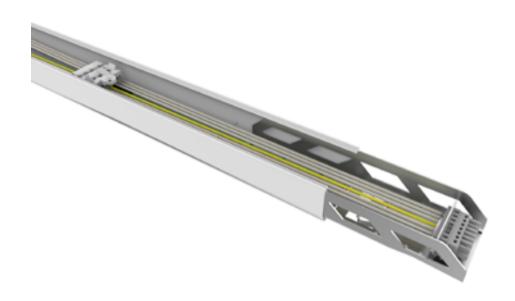
Right 25° Right asymmetric Applied to exhibition

focusing on goods



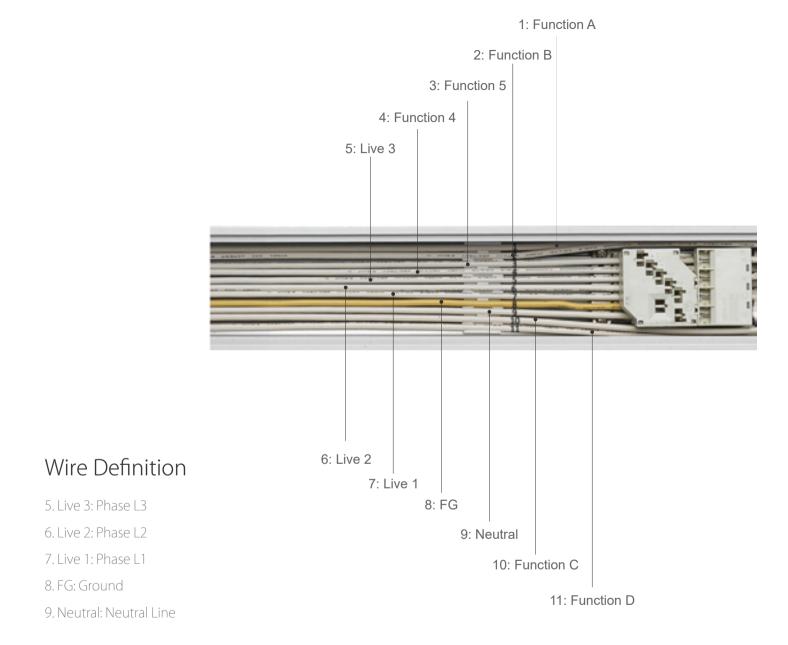
Linear Trunking System

Trunking Rail



Pre-wired Trunking Rail Saves Installation Time & Cost

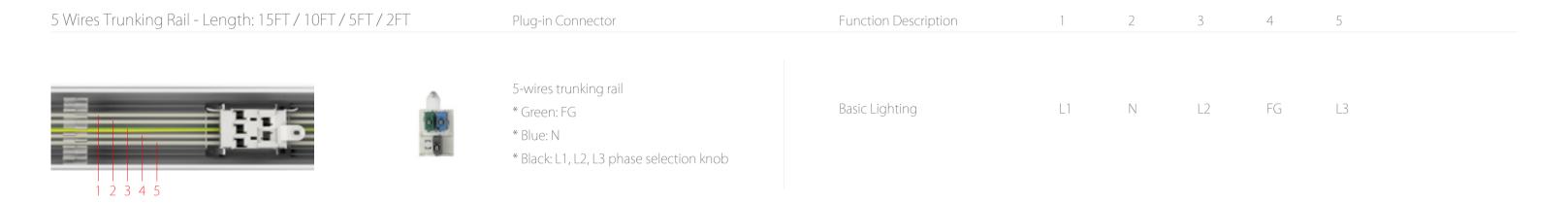
- 2FT / 5FT / 10FT / 15FT Pre-wired connector makes it easier and faster to connect the linear trunking rail.
- 5,7,11 wires support more functions.
- 44-220 pieces can be connected in 1 line.

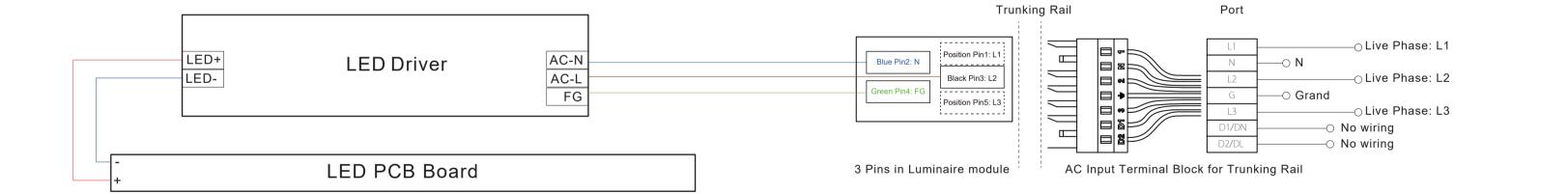


1~4, 10 and 11:Function A, Function B, Function C, Function D, Function 4 and Function 5 support DALI dimming, 0-10V Dimming and Emergency power supply, including internal battery type and EPS(Emergency Power Supply).

5 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT Connector Plug Type in Luminaire Function Description 5-wires trunking rail 3 Pins wire connector plug Basic Lighting * Green: FG * Blue: N 4 Pins wire connector plug Basic Lighting + Battery Emergency * Black: L1, L2, L3 phase selection knob 7 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT 5 Pins wire connector plug Basic Lighting; Basic Lighting + Dimming 7-wires trunking rail Basic Lighting + Battery Emergency * Green: FG * Blue: N * Red/White: D+/D-,DIM+/DIM-6 Pins wire connector plug Basic Lighting * Black: L1, L2, L3 phase selection knob Basic Lighting + Dimming Basic Lighting + Dimming + Battery Emergency 11 Wires Trunking Rail - Length: 15FT / 10FT / 5FT / 2FT 11-wires trunking rail * Basic Lighting + Dimming + 9 Pins wire connector plug Basic Lighting + Dimming + Battery Emergency + Battery Emergency External Emergency Power System * L: L1, L2, L3 phase selection knob

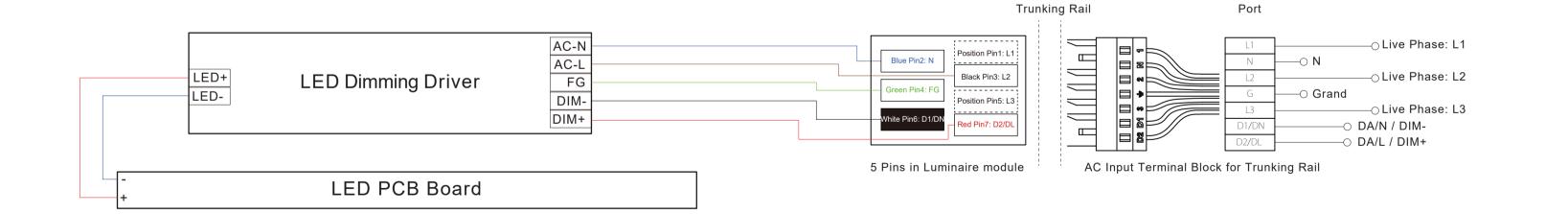
Trunking Rail 5 Wires, 3 Pins





Trunking Rail 7 Wires, 5 Pins

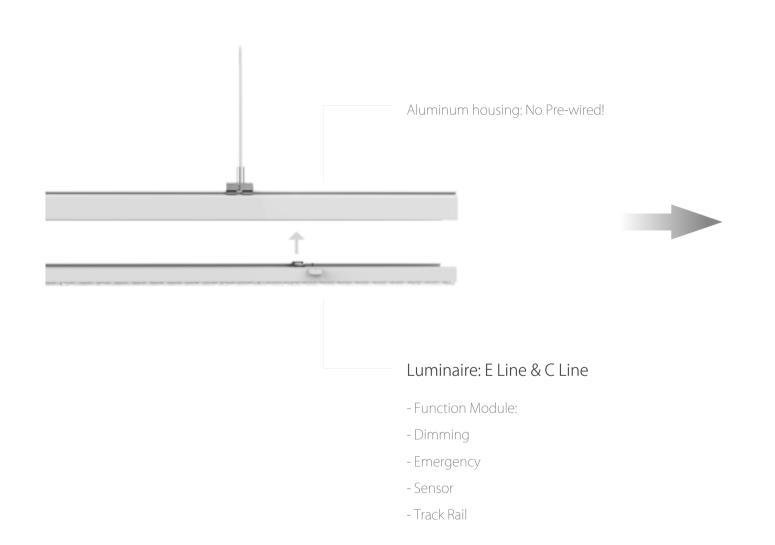




Trunking Rail 11 Wires, 9 Pins

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 Basic Lighting + Dimming A B Fn4 Fn5 L3 L2 L1 FG N C * A/B/C/D: Emergency driver and battery + Battery Emergency * L: L1, L2, L3 phase selection knob 1 2 3 4 5 6 7 8 9 1011 Gray Pin 5 Gray Pin A Gray Pin3: L3 Gray Pin B Gray Pin1: L1 Gray Pin C White Pin6: FG Gray Pin D White Pin7: N 9 Pins in Luminaire module • • • • DR-N DR-L Bat-Battery AC-N Bat+ AC-L LED Emergency Driver(Sefl-Test) L-Main DR+ LED+ LED Dimming Driver FG L-Branch DR-DIM-LED+ FG DIM+ LED-**PCB** Board

Linear Single Lamp: ELINE & CLINE





Single Lamp Suspending, No Connection

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

Linear Single Lamp

E Line – 130LM/W



- TUV, GS and RCM certificate, TUV passed driver.
- 30°, 60°, 90°, 120°, 25°/ 25°, 30°*90°, different beam angle available.







SMD5630

Power: 16w / 20w / 24w / 28w

CRI>80, PF>0.9

120-130lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

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120-130lm/w

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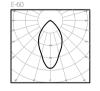
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120°

Applied to open area with gap between shelves lower roof height

Linear Single Lamp

Cline - 1301 M/W & 1601 M/W



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SMD5630

Power: 16w / 20w / 26w / 32w

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3000K 4000K 5000K 6000K

5FT: 1410*65*36mm

SMD5630

Power: 40w / 50w / 65w / 80w

CRI>80, PF>0.9

20lm/w-130lm/w, 150-160lm/w

2 Years Warranty

3000K 4000K 5000K 6000K

Beam Angle





60°





25°/25°



Left 25°



30°

Sharp distribution Applied to tight gap focusing on objects

Narrow distribution Applied to narrow passageway

Wide distribution Applied to wider passageway

90°

Double asymmetric Applied to large

Left asymmetric Applied to exhibition focusing on goods gap between shelves

Right 25° Right asymmetric Applied to exhibition

focusing on goods

Track Rail Module

The pre-assembled track rail module is mainly for spot lighting in supermarket, exhibition and showroom. It also matches with trunking rail with corresponding length 2FT/5FT.





Track Rail Module





2FT: E Line-576*65*36mm, C Line-567*65*36mm

1pcs Track Light

4 wires

Corresponding 5/7/11 wires trunking rail.

- * Green: FG
- * Blue: N
- * Black: L1, L2, L3 phase selection knob

(Wire connector's phase needs to be moved to match to the track rail L1, L2, L3 phase.)



5FT: E Line-1436*65*36mm, C Line-1410*65*36mm

2~3pcs Track Light

4 wires

Corresponding 5/7/11 wires trunking rail.

- * Green: FG
- * Blue: N
- * Black: L1, L2, L3 phase selection knob

(Wire connector's phase needs to be moved to match to the track rail L1, L2, L3 phase.)





230*220mm* φ 80



225*185mm*φ80

Cree led

Power: 12w

CRI>80, PF>0.9

Color: Black / White

3000K 4000K 5000K

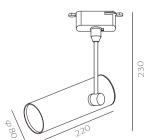
3000K 4000K 5000K

Cree led

Power: 20w

CRI>80, PF>0.9

Color: Black / White



235*220mm*φ90

Cree led

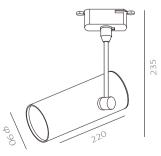
Power: 30w

CRI>80, PF>0.9

Color: Black / White

3000K 4000K 5000K



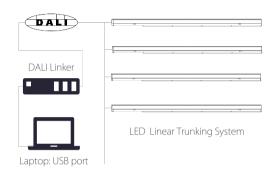






Dimming

DALI Dimming



DALI Dimming and LED Linear Trunking System

Nematec 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 and manage rooms lighting. It will save costs and energy greatly.

Trunking rail: 7 wires

Brightness: 0% to 100%

System control: 64 elements, 16 groups,

40-50 pieces lamps

Power Supply



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)

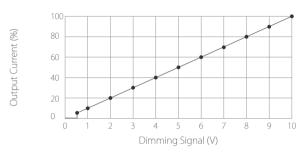
Total harmonic distortion:

<10%

Certificates:

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

OV: 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: CB, TUV, CE, RCM, UL, FCC

Sensor Module



2FT / 5FT





Daylight sensor + Motion sensor

Sensor Meryteck

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

Maximum watt:





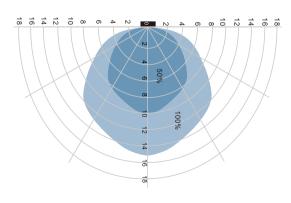


Detection Area

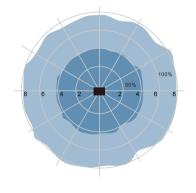
Maximum Detection zone:

16m (D) x 15m (H);

Detection angle: 360°



Cross Section Pattern (Unit: m)



Horizontal Plane Pattern (Unit: m)

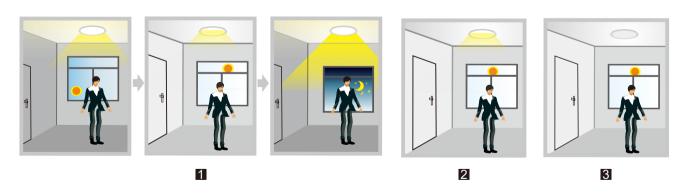
Motion sensor function



- 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 or turn off against ambient light.
- **3** Users can switch off the light manually.

Emergency Module

LED Linear Trunking System is popular in industrial and commercial application, like warehouse, supermarket and factory.

Emergency function is necessary in such application to ensure the safe environment.



① NIMH Built-in battery

Battery supplies power to LED luminaire when power fails.

There are two kinds of high temperature resistance battery for option: 6w with 1800mAh and 12w with 3600mAh.

2 Emergency Driver

The emergency driver supplies power from battery to luminaire automatically when power cuts.

3 LED Driver

LED driver supplies power to LED luminaire as usual. Power is from 36W to 80W with LED driver.

Emergency Solution

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	0	0
•	•	0	100%
0	0	•	30%

Trunking Rail: 7 wires, 11wires Trunking Rail

Emergency Brightness: 6w (780lm), 12w (1560lm)

Emergency Durable: 10hrs

Emergency Battery: NIMH high-temp resistant battery

Emergency Driver Lifespan: 10,000hrs

Emergency Driver Warranty: 1 years

Battery Warranty: 1 year

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℃	
max. case temp.	73 C	
Over-heat protection	Over-heat protection with auto-reset.	
EMC standard	EN55015, EN61547	
Safety standard	EN50172, EN61347-2-7, EN61347-2-13 , IEC	62034 BS5266
Surety standard	27,2101317 27,2101317 2 13,120	0203 1 ,033200
Certification	Semko, CB, CE, EMC	
Dielectric strength	Input→output: 3750VAC	
IP grade	IP20	

Accessory



— Type End Box

For covering the connector of the last trunking rail when finishing connection in one row.



— Type Connector

Make it easier to input power by hand. It can be replaced by terminal block.



Surface Mounted Kits / Suspension Kits

Material: stainless steel
Size: L53*W36*H15mm

Cord Length: 2m

3m Max distance between two suspension points.



L Type Connector

For trunking rail connection by corner.



End Cap

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



T Type Connector

For trunking rail connection by two corner.



Female AC Input Terminal Block B

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



X Type Connector

For trunking rail connection in the central corner.



Blank Cover

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

White / Black

Application







SUPERMARKET

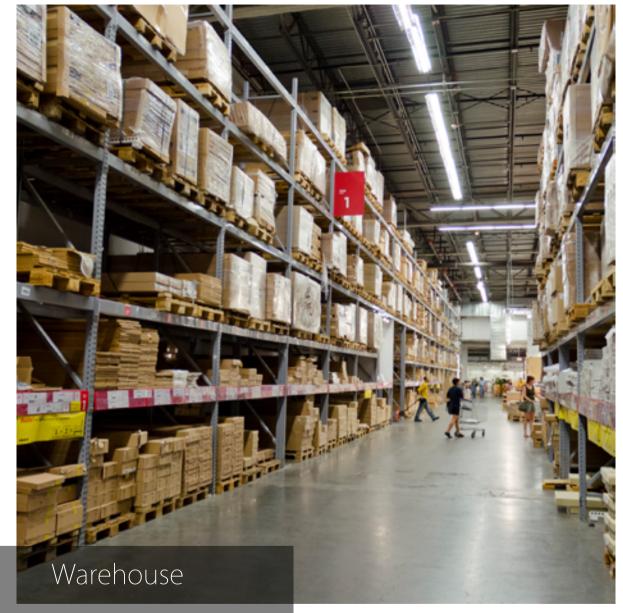


WOKSHOP



GYM





Morking environment has great impact on workers' work efficiency.And, lighting places important role in creating enthusiastic workingenvironment.

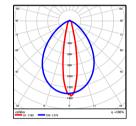
Different workshops have different temperature and humidityrange. It requires high quality to support the operation.

Warehouse Data

Lighting power density: 2.22 W/m²
 Area: 3058.24 m²
 Consumption: 111325 kWh/a
 Gap of Shelves: 3.10 m
 Shelves Height: 10.9~12 m

Lighting Solution:

Area	ltem	Quantity	Rows	illumination
Corridor	C Line, 30°, 80w, 160lm/w	392 pcs	24	169 lx
	Emergency Module, 5FT, 3600mAh, 12W	40 pcs	24	
	Blank Cover	1056 pcs		
Total		1488 pcs	24	

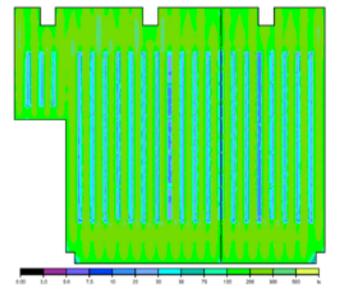






Linear Trunking System C Line

Blank Cover



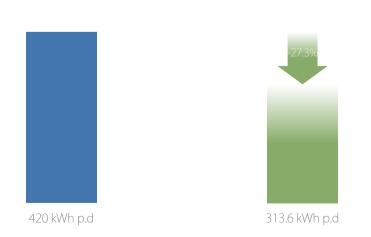




Energy Saving Analysis

How much energy cost saving?

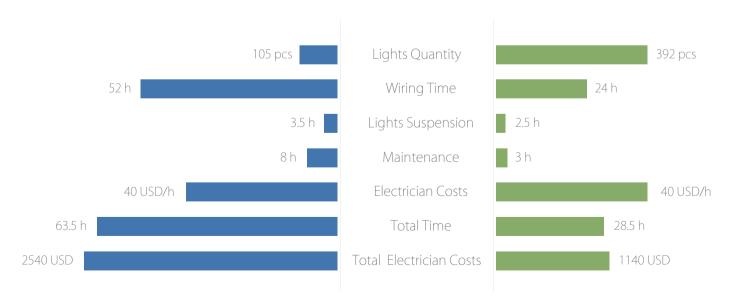
	LED High Bay	C Line LED Linear Trunking System
Power of Luminaire(Watt)	400	77.8
Number of Light(Pieces)	105	392
Total Power Consumption(Watt)	42000	30497.6
Total Lumens(Lm)	5017600	4647834
Luminous Efficiency(Im/w)	120	152.4
Work Hours p.d.(Hours)	10	10
Kilowatt Hours p.d(kWh)	420	305
Energy Saving p.d(kWh)	\	115



Labor Cost Saving Analysis

How much labor cost saving?

	LED H	ligh Bay	LED Linear 1	Frunking System
Lights Quantity	105	pcs	392	pcs
Wiring Time	52	hours	24	hours
Lights Suspenion	3.5	hours	2.5	hours
Maintenance	8	hours	3	hours
Electrician Costs	40	USD/hour	40	USD/hour
Total Time	63.5	hours	28.5	hours
Total Electrician Costs	2540	USD	1140	USD





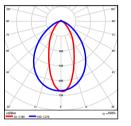
Because of its wide area, the different heights for shelves, the aim of showing goods well and the crowed environment, there are a lot of special requirements for led light in supermarket.

Supermarket Data

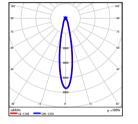
• Lighting power density: 11.62 W/m²
• Area: 3058.24 m²
• Consumption: 97750 kWh/a
• Gap of Shelves: 1.80 m
• Shelves Height: 2.10~2.30 m

Lighting Solution:

Area	Item	Quantity	Rows	illumination
Shelves	C Line, 60°, 40w, 160lm/w	455 pcs	39	896 lx
Corridor	C Line, 60°, 65w, 160lm/w	126 pcs	4	1188 lx
Fruit	Track Lights, 24°, 30w, 88lm/w	164 pcs	6	2678 lx
Total		745 pcs	49	



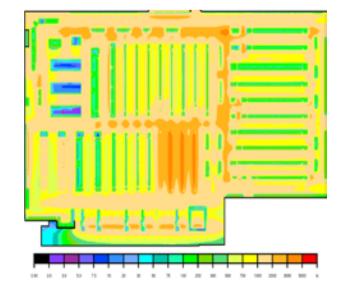


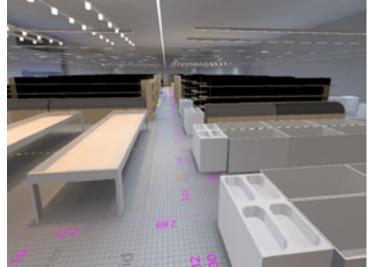




Linear Trunking System C Line

Track Light



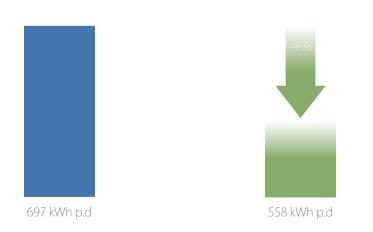




Energy Saving Analysis

How much energy cost saving?

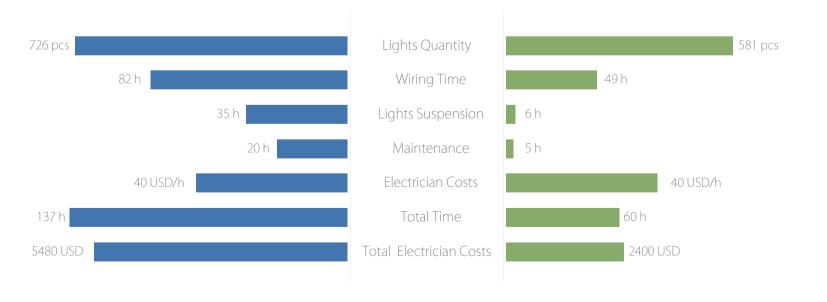
	LED T5 Tube Light	C Line LED Linear Trunking System
Power of Luminaire(Watt)	80	40~65
Number of Light(Pieces)	726	581
Total Power Consumption(Watt)	58080	26784
Total Lumens(Lm)	4646400	4285440
Luminous Efficiency(lm/w)	80	160
Work Hours p.d.(Hours)	10	10
Kilowatt Hours p.d(kWh)	580.8	267.8
Energy Saving p.d(kWh)	\	313



Labor Cost Saving Analysis

How much labor cost saving?

	LED T5	Tube Light	LED Linear	Frunking System
Lights Quantity	726	pcs	581	pcs
Wiring Time	82	hours	49	hours
Lights Suspenion	35	hours	6	hours
Maintenance	20	hours	5	hours
Electrician Costs	40	USD/hour	40	USD/hour
Total Time	137	hours	60	hours
Total Electrician Costs	5480	USD	2400	USD





Workshop

Working environment has great impact on workers' work

And, lighting places important role in creating enthusiastic vorkingenvironment.

range. It requires high quality to support the operation.

Workshop Data

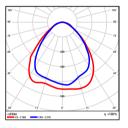
Height of Lights:

• Lighting power density: 8.08 W/m²
• Area: 750 m²
• Consumption: 22115 kWh/a
• Height of Desk: 1.00 m

3.40 m

Lighting Solution:

Area	Item	Quantity	Rows	illumination
Working	E Line, 90°, 36w, 130lm/w	166 pcs	10	169 lx
	Blank Cover, 2FT	83	10	
Total		249 pcs	20	

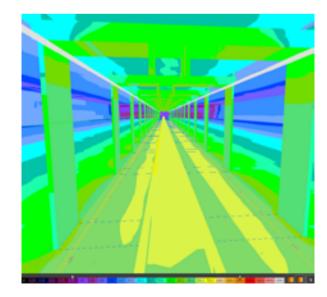






Linear Trunking System ELine

Blank Cover





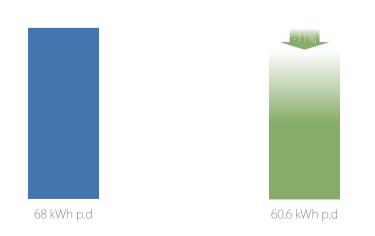




Energy Saving Analysis

How much energy cost saving?

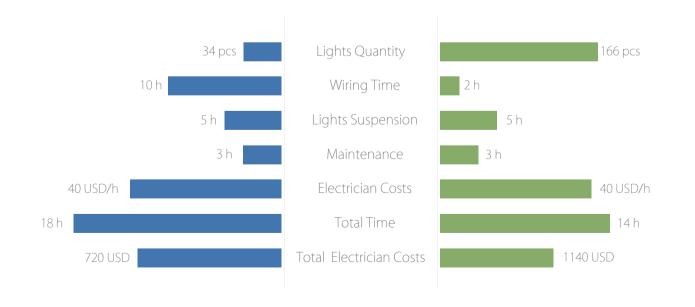
	LED High Bay	E Line LED Linear Trunking System
Power of Luminaire(Watt)	200	36.5
Number of Light(Pieces)	34	166
Total Power Consumption(Watt)	6800	6059
Total Lumens(Lm)	811906	811906
Luminous Efficiency(lm/w)	120	134
Work Hours p.d.(Hours)	10	10
Kilowatt Hours p.d(kWh)	68	60.6
Energy Saving p.d(kWh)	\	7.4

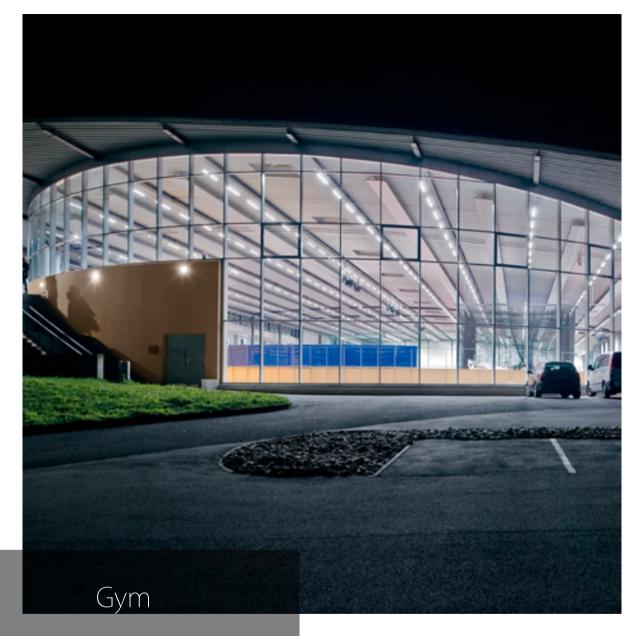


Labor Cost Saving Analysis

How much labor cost saving?

	LED	High Bay	LED Linear	Trunking System
Lights Quantity	34	pcs	166	pcs
Wiring Time	10	hours	2	hours
Lights Suspenion	5	hours	5	hours
Maintenance	3	hours	3	hours
Electrician Costs	40	USD/hour	40	USD/hour
Total Time	18	hours	14	hours
Total Electrician Costs	720	USD	560	USD





Gym and hall with high roof and wide-open area requires high lumen of led light.

ED linear trunking system with different beam angle and high umen not only

Gym Data

• Lighting power density: 1.26 W/m²

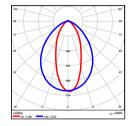
• **Area:** 30000 m²

• Consumption: 137970 kWh/a

• Height of Lights:

Lighting Solution:

Area	Item	Quantity	Rows	illumination
Opening	C Line, 60°, 80w, 160lm/w	486 pcs	27	168 lx
	Blank Cover, 5FT	280 pcs	10	
	Sensor Module, 2FT, 16m(D)*15m(H)	100 pcs	27	
Total		866 pcs	64	

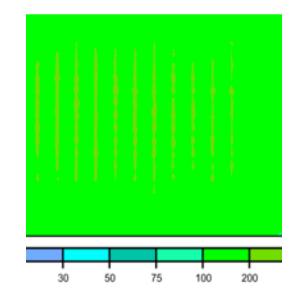


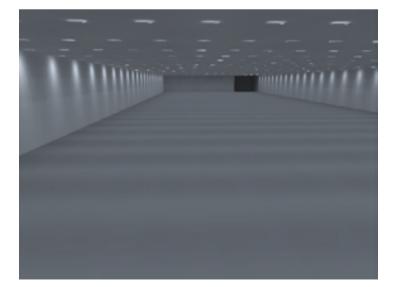




Linear Trunking System C Line

Blank Cover





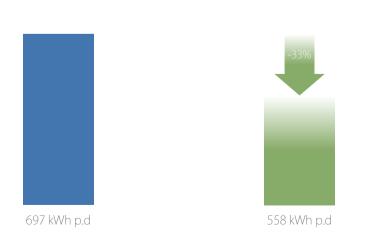




Energy Saving Analysis

How much energy cost saving?

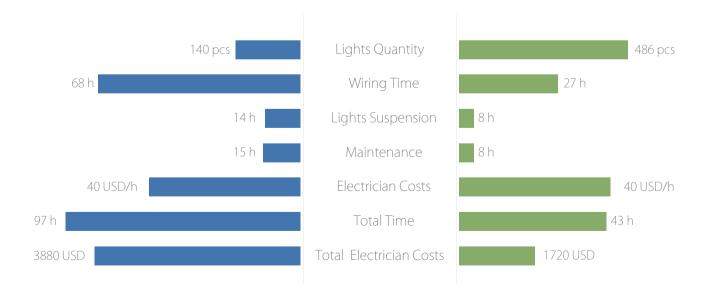
	LED High Bay	C Line LED Linear Trunking System
Power of Luminaire(Watt)	400	77.8
Number of Light(Pieces)	140	486
Total Power Consumption(Watt)	56000	37810.8
Total Lumens(Lm)	6720000	5671620
Luminous Efficiency(lm/w)	120	150
Work Hours p.d.(Hours)	10	10
Kilowatt Hours p.d(kWh)	560	378
Energy Saving p.d(kWh)	\	182



Labor Cost Saving Analysis

How much labor cost saving?

	LED High Bay	LED Linear Trunking System
Lights Quantity	140 pcs	486 pcs
Wiring Time	68 hours	27 hours
Lights Suspenion	14 hours	8 hours
Maintenance	15 hours	8 hours
Electrician Costs	40 USD/hour	40 USD/hour
Total Time	97 hours	43 hours
Total Electrician Costs	3880 USD	1720 USD









NEMATEC Display Factory GmbH & Co. KG Hauptstrasse 1 D - 65462 Ginsheim

Tel. +49 (0) 6144 - 938 - 182

Mail: info@nematecdisplay.de www.nematec-led-shop.de www.nematec-displayfactory.de

Fax +49 (0) 6144 - 938 - 184