

### **Designed without compromise**

Choose iLuXx Vehicle lighting solutions if you're looking for serious lighting that will get the job done. It has been designed specifically to be driven from a standard 12 Vdc automotive battery - no additional power supply is required. It is a robust LED Lighting device made from an anodized aluminum profile and a polycarbonate lens.

- Wide operating voltage range (10 to 16vdc) with full light intensity throughout the range
- Built with Lineo Drive technology for superior efficiency and maximum battery autonomy.
- Protection against humidity and condensation of the electronic circuit with conformal coating.

#### **General Technical Characteristics**

Input supply range

10 to 16 vdc

Color

3000K / 4000K / 6000K

Dimmable

Yes 100% - 0% with PWM dimmers

Beam angle

120 degree

Lead wire length

18 in. (46 cm)

Lifetime

50 000 hours

Operating temperature

-30°C to 55°C

Built-in protection against:

- Over current (auto reset)
- Over temperature (auto reset)
- Humidity and condensation with conformal coating

Warranty

3 years



#### **Lineo Drive**

Maximum Light Output - Maximum Efficiency - Minimum Size

### The Technology

**Lineo Drive** could be considered as an hybrid between constant voltage and constant current systems. Contrary to typical constant voltage Led bars we don't use resistors to regulate the LED current. Micro "LED Drivers" are embedded into each LED string at the printed circuit board level thus permitting:

#### 1- Better efficiency

At equal light output **Lineo Drive** draws 35% less current then typical constant voltage Led bars.

#### 2- 100% light output on a wide input supply range

With traditional constant voltage Led bars light output is proportional to the input voltage (less voltage = less light). With **Lineo Drive** full output is maintained through a very wide input range (see Fig. 1).

#### 3- Maximum lifetime

Traditional constant voltage led bars are designed to run on a steady 12vdc. The reality is quite different. For example, the operating voltage on a vehicle with engine running is around 13,8 Vdc. That situation is detrimental to conventional Led bars (shorter lifetime and reduced light output over time) but with **Lineo Drive** maximum lifetime is guaranteed through the full input voltage range





One of the key feature of our **Lineo Drive** technology is that you get the full light output on the whole voltage input range.

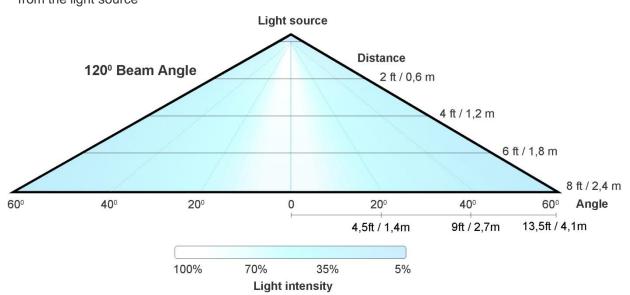
Fig. 1 Light output vs Input voltage

Input Voltage	Light output	Current draw (A)
14,0	100%	0,96
13,5	100%	0,96
13,0	100%	0,96
12,5	100%	0,96
12,0	100%	0,96
11,5	100%	0,96
11,0	100%	0,96
10,5	100%	0,96
10,0	100%	0,96
9,5	83%	0,80
9.0	60%	0.58



### **Typical light distribution**

According to beam angle and distance from the light source

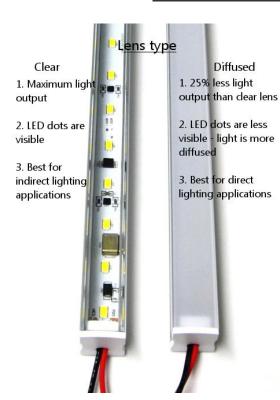








### Lighting effect based on lens type





### 12V Series Vehicle

### **Light intensity**

#### Lumen

The industry is using lumen as the unit of measure for light intensity. It's not perfect because it measures luminosity of the light source (how much light is coming out of the LED) but it does not considers the optical efficiency of the lighting fixture. We're giving you these figures also because everyone else does it and it gives you figures to compare.

Formula for fixture with clear lens:

Lumen = Wattage (of lighting fixture) x lm/w (lumen per watt of LED as specified by manufacturer)

Formula for fixture with diffused lens: Lumen = Wattage x Lm/w x 75%

#### **Dimming**

Fully dimmable (100% to 0%) using a PWM switch / dimmer. Excellent way to maximize the battery autonomy. Use with a mechanical switch. Please consult our "Installation recommendations" for more details.

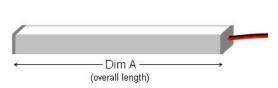


# **S75 Series**



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Version	Length (in)	Lens	Current draw @	Power	Lumen	Dim A (mm/in)	
S75D	12	Diffused	0,53	6,7	625	340/13,4	
S75T	12	Dilluseu	0,80	10,0	937	340/13,4	
S75D	24	Diffused	1,17	14,7	1374	640/25,2	
S75T	24	Dilluseu	1,75	22,0	2062	040/25,2	
S75D	36	Diffused	1,80	22,7	2124	940/37.0	
S75T	30	Dilluseu	2,70	34,1	3186	340/37,0	
S75D	48	Diffused	2,33	29,4	2749	1200/47,2	
S75T	40	Dilluseu	3,50	44,1	4123	1200141,2	



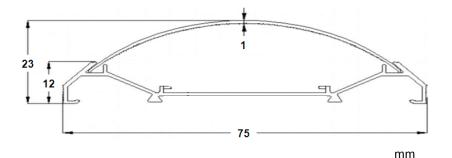




# **S75 Series**



- 1- High output lighting solution for vehicles
- 2- Surface mount installation using included mounting clips
- 3- Great for ceilings and under cabinets applications





# **S75 Series**

#### **Applications notes**

A- How does the lighting output of the S75 Series compare to fluorescent tubes usable light?

1 feet of S75D = 2 feet of a standard T8 fluorescent tube like the F32T8

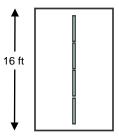
1 feet of S75T = 3 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.



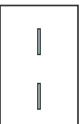
### 12V Series Vehicle



#### **Typical lighting layouts for trailers**

#### 1 x 12 linear ft

Very bright environment suitable for precision work. ratio = 12/16 = 0,75 ft of light per ft of trailer



#### 6 linear ft

Bright environment suitable for work and storage. Ratio = 6/16 = 0.375 ft of light per ft of trailer



#### 3 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 3/16 = 0,187 ft of light per ft of trailer.



#### Technical Data

Series	Length (in)	Lens	Current draw @ 12,6vdc	Power (Watt)	Lumen output	Dim A (in/mm)	Dim B (in/mm)
	12	Clear	0.22 4	4387	500 lm	42.0 / 220	122
	12	Diffused	0,32 A	4 W -	375 lm	- 13,0 / 330	n/a
S8	24	Clear	0.64 A	0.16/	1000 lm	24.0.7.020	
30	24	Diffused	U,04 A	8 W -	750 lm	- 24,8 / 630	n/a
	36	Clear	0.96 A	12 W -	1500 lm	- 36.6 / 930	n/a
	30	Diffused	0,50 A	1244	1125 lm	- 30,07930	Wa.

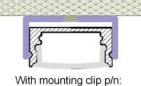
# **S8 Series**



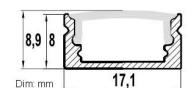
### **Installation options**

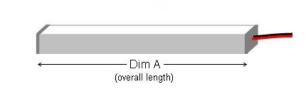


With VHB double- sided tape - included



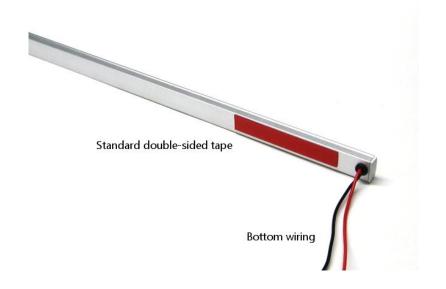
With mounting clip p/n: MDB12PC - included







# **S8 Series**



- 1- Surface mount installation using included double-sided tape (automotive VHB type) or included mounting clips.
- 2- Available in two wiring style: side or bottom lead wire
- 3- Great for ceilings, walls or under cabinets





## **S8 Series**

#### **Applications notes**

A- How does the lighting output of the S8 Series compare to fluorescent tubes usable light?

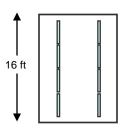
1 feet of S8 = 1 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.



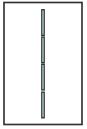
### 12V Series Vehicle



#### **Typical lighting layouts for trailers**

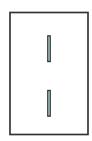
#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0.75 ft of light per ft of trailer



#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer

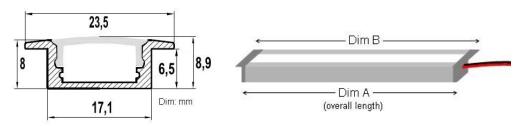


# **R8 Series**



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Series	Length (in)	Lens	Current draw @ 12,6vdc	Power (Watt)	Lumen	Dim A (in/mm)	Dim B (in/mm)
	12	Clear	0.32 A	4 W -	500 lm	- 13.0 / 330	13.2 / 336
	1,4	Diffused	0,32 A	4 VV	375 lm	- 13,07330	13,27,330
R8	24	Clear	0.64 A	8 W -	1000 lm	- 24.8 / 630	25.0 / 636
RO	24	Diffused	0,04 A	O W -	750 lm	24,07030	23,07 030
	20	Clear	0.00 //	12 W -	1500 lm	- 36.6 / 930	36.9 / 936
	36	Diffused	0,96 A	12 //	1125 lm		30,87830

- 1- Recessed installation using included double-sided tape (automotive VHB type).
- 2- Available in two wiring style: side or bottom lead wire
- 3- Great for ceilings and walls





Tachnical Data



## **R8 Series**

#### **Applications notes**

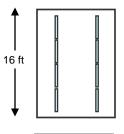
A- How does the lighting output of the R8 Series compare to fluorescent tubes usable light?

1 feet of R8 = 1 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.

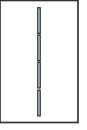
# 12V Series Vehicle



#### **Typical lighting layouts for trailers**

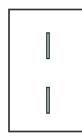
#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0,75 ft of light per ft of trailer



#### 6 linear ft

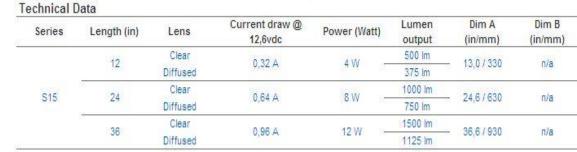
Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer

Standard double-sided tape

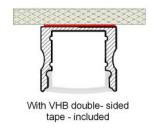
**Bottom wiring** 



# **S15 Series**

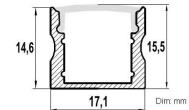


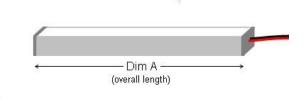
### **Installation options**





With mounting clip p/n: MDB12PC - included

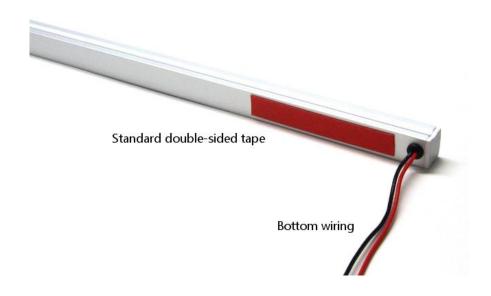




Side wiring



## S15 Series



- 1- Surface mount installation using included double-sided tape (automotive VHB type) or included mounting clips.
- 2- Available in two wiring style: side or bottom lead wire
- 3- Great for ceilings, walls or under cabinets





## **S15 Series**

#### **Applications notes**

A- How does the lighting output of the S15 Series compare to fluorescent tubes usable light?

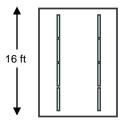
1 feet of S15 = 1 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.



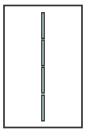
### 12V Series Vehicle



#### **Typical lighting layouts for trailers**

#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0.75 ft of light per ft of trailer



#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer



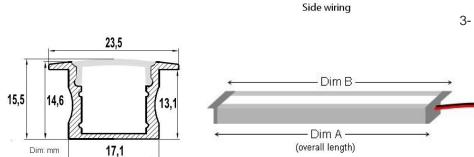
# **R15 Series**

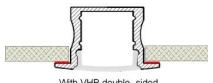


# 12V Series Vehicle

Series	Length (in)	Lens	Current draw @ 12,6vdc	Power (Watt)	Lumen	Dim A (in/mm)	Dim B (in/mm)
	146	Clear	PARTAGONIA PARTANIA	10/220	500 lm	0.0000000000000000000000000000000000000	0.000.000.000.000
	12	Diffused	0,32 A	4 W -	375 lm	- 13,0 / 330	13,2 / 336
R15	24	Clear	0.64 A	0.166	1000 lm	- 24.8 / 630	25.0 / 636
RIS	24	Diffused	U,04 A	8 W -	750 lm	- 24,07030	25,07030
	36	Clear	0.96 A	12 W -	1500 lm	- 36.6 / 930	36.9 / 936
	30	Diffused	0,56 A	12.44	1125 lm	- 30,07930	30,37 330

- 1- Recessed installation using included double-sided tape (automotive VHB type).
- 2- Available in two wiring style: side or bottom lead wire
- 3- Great for ceilings and walls





With VHB double- sided tape - included

Technical Data



## **R15 Series**

#### **Applications notes**

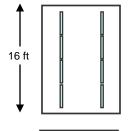
A- How does the lighting output of the R15 Series compare to fluorescent tubes usable light?

1 feet of R15 = 1 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.

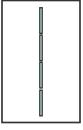
### 12V Series Vehicle



#### **Typical lighting layouts for trailers**

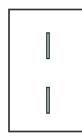
#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0.75 ft of light per ft of trailer



#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer

Bottom wiring

Standard double-sided tape



# C18 Series

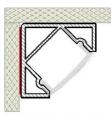


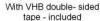
# **12V Series Vehicle**

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Series	Length (in)	Lens	Current draw @ 12,6vdc	Power (Watt)	Lumen	Dim A (in/mm)	Dim B (in/mm)
	12	Clear	0,32 A	4 W -	500 lm	- 13.0 / 330	n/a
	12	Diffused	0,32,A	4 // -	375 lm	- 13,07.330	104
0.10	24	Clear	0.64.6	9.144	1000 lm	- 24.8 / 630	-12
CIO	24	Diffused	0,64 A	8 W -	750 lm	- 24,07030	n/a
	36	Clear	0.96 A	12 W -	1500 lm	- 36.6 / 930	n/a
C18	30	Diffused	0,90 A	12 VV -	1125 lm	- 30,07930	n/a

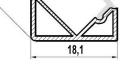
### **Installation options**







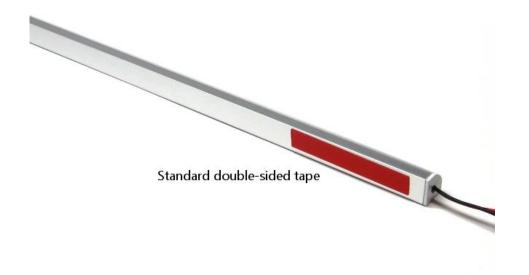
With mounting clip p/n: MDB12PC45C - included



Dim: mm



# C18 Series



- 1- Surface mount or recessed installation using included doublesided tape (automotive VHB type) or included mounting clips.
- 2- Great for ceilings and walls corner or under cabinets





## C18 Series

#### **Applications notes**

A- How does the lighting output of the C18 Series compare to fluorescent tubes usable light?

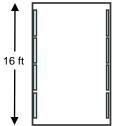
1 feet of C18 = 1 feet of a standard T8 fluorescent tube like the F32T8

B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.



## 12V Series Vehicle



#### **Typical lighting layouts for trailers**

#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0.75 ft of light per ft of trailer



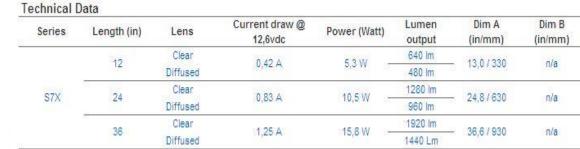
#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer

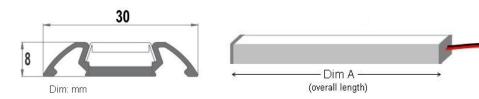


# **S7X Series**

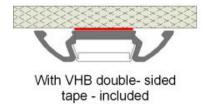




- 1- Surface mount installation using included double-sided tape (automotive VHB type).
- 2- Available in two wiring style: side or bottom lead wire
- 3- Great for ceilings and walls



Side wiring





# **S7X Series**

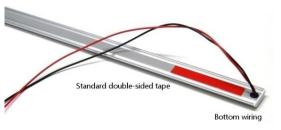
#### **Applications notes**

A- How does the lighting output of the S7X Series compare to fluorescent tubes usable light?

1 feet of S8 7X 1 feet of a standard T8 fluorescent tube like the F32T8

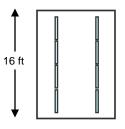
B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.





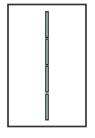
# 12V Series Vehicle



#### **Typical lighting layouts for trailers**

#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0.75 ft of light per ft of trailer



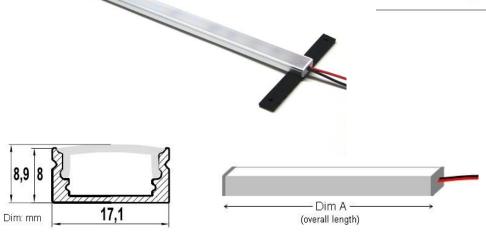
#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer



#### Technical Data

COD Corios	Series	Length (in)	Lens	Current draw @ 12,6vdc	Power (Watt)	output	(in/mm)	(in/mm)
S8B Series		12	Clear	0,32 A	4 W -	500 lm	- 13,0 / 330	n/a
		12	Diffused	0,02 A	Zaří l	375 lm	10,07000	7777
	S8B	24	Clear	0,64 A	8 W -	1000 lm	- 24,8 / 630	n/a
			Diffused	0,04.4		750 lm		
		36	Clear	0,96 A	12 W -	1500 lm	- 36,6 / 930	n/a
		30	Diffused	0,50 A	214 W	1125 lm	30,07,330	31/d







# **S8B Series**



- 1- Installation on various circular or rectangular shape using the rubber belts and a tie-wrap. This is a flexible and robust solution.
- 2- Great for outdoor shelters, event tents, etc





## **S8B Series**

#### **Applications notes**

A- How does the lighting output of the S8B Series compare to fluorescent tubes usable light?

1 feet of S8B = 1 feet of a standard T8 fluorescent tube like the F32T8

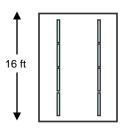
B- How many luminaires do I need to light a trailer?

Next we show 3 typical lighting

layouts that will help you evaluate how many luminaires are required to obtain the desired level of lighting.



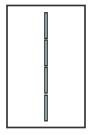
### 12V Series Vehicle



#### **Typical lighting layouts for trailers**

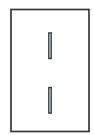
#### 2 x 12 linear ft

Very bright environment suitable for precision work. Ratio = 24/16 = 1,5 ft of light per ft of trailer



#### 1 x 12 linear ft

Bright environment suitable for work and storage. Ratio = 12/16 = 0,75 ft of light per ft of trailer



#### 6 linear ft

Not enough to work comfortably but enough to be able to read. Perfect for delivery trucks and general storage. Ratio = 6/16 = 0,375 ft of light per ft of trailer