

Product Features

- High luminous efficiency, energy saving up to 70% compare of tradition lamp
- Modular design, can be used individually or in combination
- Fully sealed design, easy to clean and easy to maintain
- 30V low voltage design (LED section), more safety
- Easy maintenance (replaceable power supply)

Installation

A variety of installation methods; can be used individually or in combination; replaces traditional fluorescent (with troffer or fixture) without changing the circuit.













Combination













The angle can be adjusted.

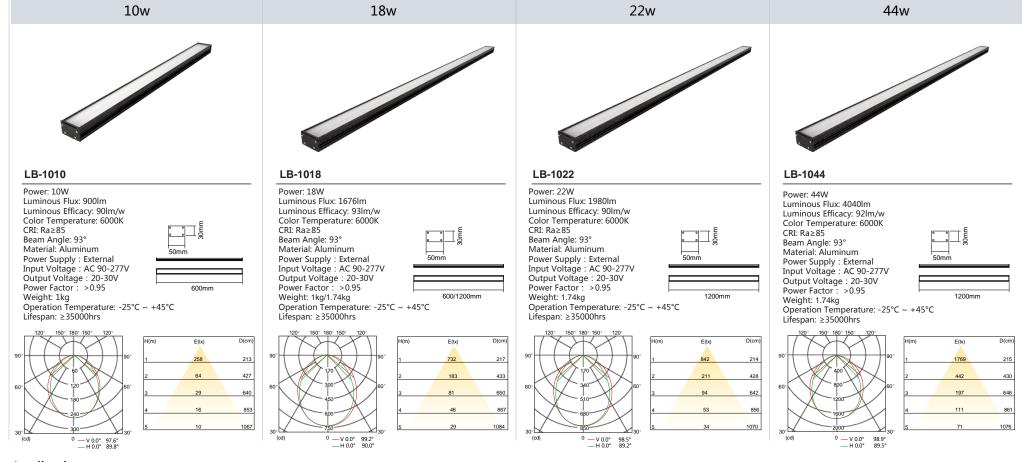






Matrix LED Integration

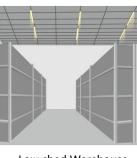
Specification



Applications



Building Decoration



Low shed Warehouse



Food production plant



Parking Lot



Offices



Pedestrian bridges, tunnel



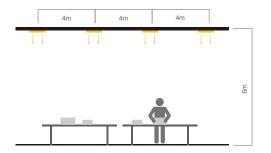




Design Example: Flour, food factory

Design illumination: 300lx

Vertical section





Traditional lamp 2×36W

Horizontal illuminance distribution

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			50m				(lx)

Light Panel
Fluorescent tube
2×2430
8000
6.0
270
8532



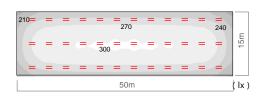
LED Light Bar 44W SONARAY LB-1044

Horizontal illuminance distribution

Same brightness

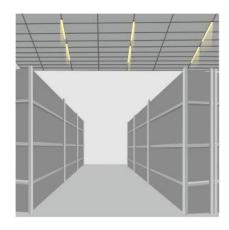






Lamp	LB-1044
Light source	LED
Luminous flux (lm)	4040
Lifetime (hrs)	35000
Mounting height (m)	6.0
Maintained average illuminance (lx)	305
Total power (W)	3168

[%]The traditional lamp power of light source is about 80% of the total power consumption. %The luminous flux of whole lamp is about 50% of light source..



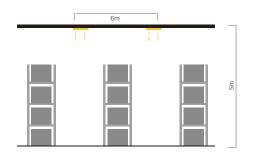




Design Example: Low shed Warehouse

Design illumination: 75lx

Vertical section





Traditional lamp 70W

Horizontal illuminance distribution

	60 O	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
30m	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	O 60
(lx				n	50r			

Traditional Lamp
HPS
6000
8000
5.0
76
3920



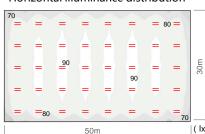
LED Integration 22W SONARAY LB-1022

Horizontal illuminance distribution

Same	
brightness	

Energy saving 54%

Add 24 sets



Lamp	LB-1022
Light source	LED
Luminous flux (lm)	1980
Lifetime (hrs)	35000
Mounting height (m)	5.0
Maintained average illuminance (lx)	81
Total power (W)	1792

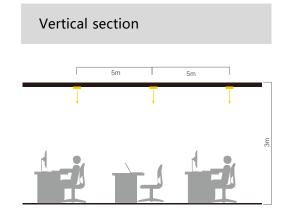
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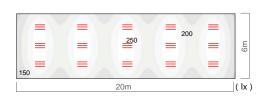
Design Example: Office area lighting

Design illumination: 200lx

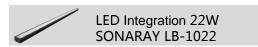




Horizontal illuminance distribution

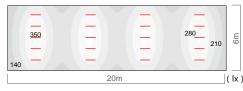


Lamp	Light Panel
Light source	Fluorescent tube
Initial Luminous flux (lm)	3×1260
Lifetime (hrs)	8000
Mounting height (m)	3.085
Maintained average illuminance (lx)	201
Total power (W)	1080



Horizontal illuminance distribution





Add 5 sets

Lamp	LB-1022
Light source	LED
Luminous flux (lm)	1980
Lifetime (hrs)	35000
Mounting height (m)	3.0
Maintained average illuminance (lx)	228
Total power (W)	440

[%]The traditional lamp power of light source is about 80% of the total power consumption. %The luminous flux of whole lamp is about 50% of light source.

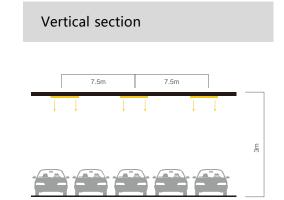






Design Example : Parking Lot

Design illumination: 75lx





Lamp	Light Panel
Light source	Fluorescent tube
Initial Luminous flux (lm)	2×1930
Lifetime (hrs)	8000
Mounting height (m)	3.060
Maintained average illuminance (lx)	80
*The traditional damminower	of light 36 urce is about 80% of the t

The traditional (appr) power of ligh 3 gurce is about 80% of the total power consun-The luminous flux of whole lamp is about 50% of light source.

」(lx)



Horizontal illuminance distribution



Lamp	LB-1022
Light source	LED
Luminous flux (lm)	1980
Lifetime (hrs)	35000
Mounting height (m)	3.0
Maintained average illuminance (lx)	78
Total power (W)	176



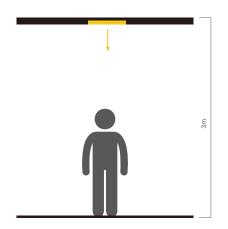




Design Example: Pedestrian bridges, tunnel

Design illumination: 45lx

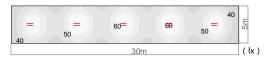
Vertical section





Traditional lamp 2×24W

Horizontal illuminance distribution



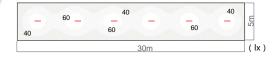
Lamp	Tube+Panel
Light source	Fluorescent tube
Initial Luminous flux (lm)	2×1000
Lifetime (hrs)	8000
Mounting height (m)	3.0
Maintained average illuminance (lx)	45
Total power (W)	240



LED Integration 18W SONARAY LB-1018

Horizontal illuminance distribution

Same brightness



Energy saving 55%

Reduce 4sets

Lamp	LB-1018
Light source	LED
Luminous flux (lm)	900
Lifetime (hrs)	35000
Mounting height (m)	3.0
Maintained average illuminance (lx)	49
Total power (W)	108

XThe traditional lamp power of light source is about 80% of the total power consumption. XThe luminous flux of whole lamp is about 50% of light source.