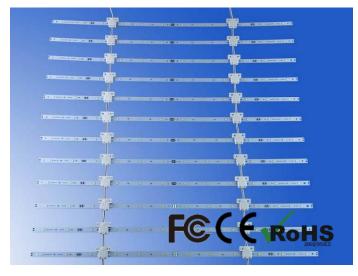


MODEL: BKT50S-50 Series Http: www.xinelam.com

Description: BKT50S-50 LED lattice backlight (LED curtain, LED bamboo slips, Patent No.:ZL201220134846.); LATTICE LED Matrix Lighting System is the most versatile and practical illumination solution for indoor and outdoor sign cabinets and large area illumination. Innovative design of LATTICE system comes in lightweight easy-to-install rolls, which allows for easy population of perfectly spaced LEDs in minutes for uniform backlit lighting.

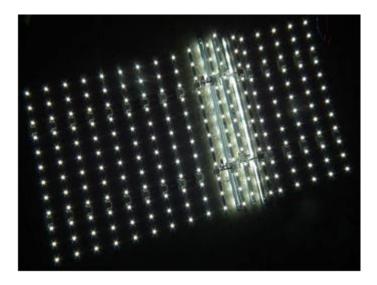


Features:

- 1. Highest luminous efficiency 100Lm/W; The actual test in excess of 50% optical efficiency than similar products.
- 2. 50mm (1.97") Perfect square Matrix
- 3. Minimal depth required at 72mm distance no hot spots on the graphic!
- 4.Available in 600mm,300mm and 150mm widths and max 2.4M/7.87ft length rolls
- 5. Warranty: 3 years

Scope of applications:

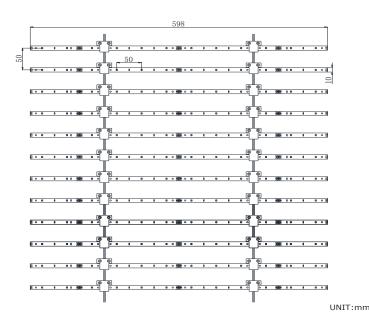
Dedicated direct type backlight, advertising signs backlight, Advertising light boxes.



LED4aLED	<u>CRI > 85</u>	
LED to LED 50mm/1.97"	Luminous efficiency	
	100Lm/W DC12V	

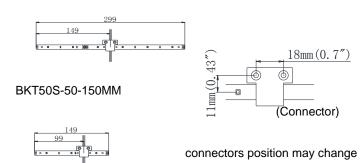
Bar to Bar	<u>Brightness</u>
50mm/1.97"	9000Lm/m ²
	836Lm/sqft

<u>LED to face distance</u> <u>Power Consumption</u> > 72mm/2.83" <u>90W/m² 8.36W/sqft</u>





BKT50S-50-300MM



^{*}Tolerance range for optical and electrical data: ±10 %. Life 40000hours@25 °C



MODEL: BKT50S-50 Series Http: www.xinelam.com

Application specs

MODEL	BKT50S-50	
Single-sided/Double-sided	Single-sided	
Brightness Level	Top Highest brightness	
Brightness	836Lm/sqft	
Min. Cabinet Depth*	>72mm (2.83")	
Default Colors	CW 6000~6500K	
	WW 2700~3200K	
Other Colors*	NW 4200~4700K	
Matamara f Dating	Non waterproof	
Waterproof Rating	(Optional Conformal Coated, IP66)	
Application Environment	Dry & Damp Locations	
Operating Temperature	-22°F~158°F (-30~70°C)	
Certification	CE RoHS FCC	

Minimum distance required from Lattices to face. Calculated with 2447 milky white acrylic with no graphics

Depth on faces with graphics can nave thinner cabinet depths

Consult with XineLam for samples and depth demonstrations

Special Order. Consult with XineLam Reps and Distributors

Power load recommendations

Oldi	BKT50S-50	BKT50S-50	BKT50S-50	
SKUs	12V-600MM	12V-300MM	12V-150MM	
LII C 400LL 40D	45bars	90bars*	180bars*	
Power 120W CC+CV Driver	2.25m / 7.38ft			
	1.35m ² / 14.53sqft			
NES-75-12	24bars	38bars	76bars	
Power 75W	1.2m/3.93ft	2.4m/7.876ft	4.8m/15.74ft	
CV driver	0.7m ² / 7.53sqft			
Recommended	Dimming power + PWM signal(Option1-10V)			
Dimming system	HLG-120H-12B + DM-IR8A			
Other	CV power + PWM signal + PWM amplifier			
Dimming system	NES-75-12 + DM-IR8A + CDA-02			

12V LED lattice - Max Series connection 48bars(2.4m/7.87ft),

If you need more series connection length: please select 24V

Packaging: 3.6m/Roll (72bar/Roll)

Electrical specs

SKUs		BKT50S-50	BKT50S-50	BKT50S-50	
		12V-600MM	12V-300MM	12V-150MM	
Operating Voltage		12V DC			
t		bar	2.7W/bar	1.35W/bar	0.675W/bar
_	Power sqft m ²		8.36W/sqft	8.36W/sqft	8.36W/sqft
			90W/m ²	90W/m ²	90W/m ²
consumption		L:ft	16.45W/ft	8.23W/ft	4.11W/ft
		L:M	54W/m	27W/m	13.5W/m
V 16	12bar		-0.08V	-0.08V	-0.07V
Voltage	0.6m	n/1.97ft	32.4W	16.2W	8.1W
Drop*	24	4bar	-0.30V	-0.30V	-0.12V
/Roll length	1.2m	n/3.94ft	64W	32W	16W
	48bar		-0.88V	-0.88V	-0.8V
	2.4m	n/7.87ft	118W	59W	30W
luminous efficiency		100Lm/W			

Voltage drop: Start bar to the end bar voltage difference between.

Series connection length: Max 48bar 2.4m@ 12V

Series connection length: Max 96bar 4.8m@ 24V products /Need to customize

Configuration specs

SKUs		BKT50S-50	BKT50S-50	BKT50S-50	
		12V-600MM	12V-300MM	12V-150MM	
LED Pitch		50mm / 1.97"			
Bar to Bar Pitch*		50mm / 1.97"			
Bar Length	mm	600mm	300mm	150mm	
(Roll width)	Inches	23.62"	11.81"	5.9"	
#I omno	/ bar	12LED/bar	6LED/bar	3LED/bar	
#Lamps LED QTY	/ sqft	36LED / sqft			
	/ m ²	400LED / m ²			
	Area	3.16bar/sqft	6.32bar/sqft	12.64bar/sqft	
		34bar/ m ²	68bar/ m ²	136bar/ m ²	
#Bars	Length	6.09bar/ft	6.09bar/ft	6.09bar/ft	
		20bar/m	20bar/m	20bar/m	
	/Roll	61Bar / 10ft			
		60bar / 3m Roll			
Cut Increment		Every 3 LED			

Bar to Bar pitch:

You can choose 60mm pitch product, installation adjustments to reduce bar to bar of size

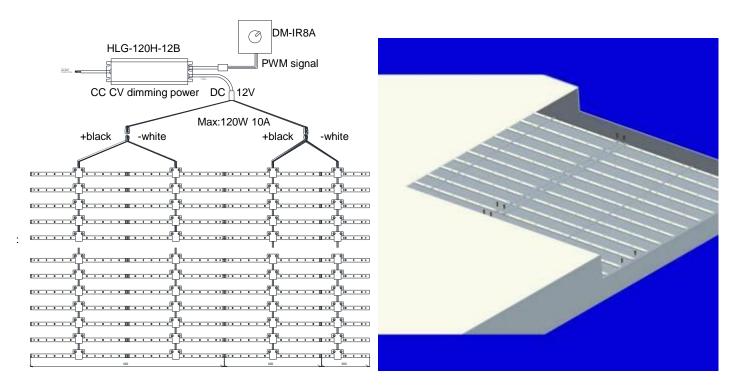
^{*}Calculations are based on 85% max load on CV power supplies

^{*}Or according to customer requirements



MODEL: BKT50S-50 Series Http: www.xinelam.com

Wiring Diagram



CAUTION: This product is installed by a professional engineering staff.

Safety Information

- 1. The LED lattice (curtain) itself and all its components may not be mechanically stressed.
- 2. Assembly must not damage or destroy conducting paths on the circuit board.
- 3. Installation of LED lamp (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- 4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the LED lattice (curtain).
- 5. Please ensure that the power supply of adapters power to operate the total load.
- 6. When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between strip and the mounting surface.
- 7. Pay attention to standard ESD precautions when installing the LED lattice (curtain).
- 8. Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- 9. Non Waterproof LED lattice (curtain)
- 10. LED lattice (curtain) can't be used as support, you need fixed in the frame, fixed to the wall, otherwise, may cause deformation.
- 11. Please be sure you choose right AC/DC power adaptor to drive LED lattices. If you have difficulty to buy such adaptor locally, please turn to us. (If you use poor quality of the LED power supply; LED lattice (caused damage, we will not warranty).