Specification

Model: Z6003XBD/Z6005XBD

Description:

Z6003XBD: 297.5*27.5mm, 3pcs XB-D LED, monochromatic, lens technology, non-waterproof with bare board , constant current, DC24V, rigid LED light

Z6005XBD: 517.5*27.5mm, 5pcs XB-D LED, monochromatic, lens technology, non-waterproof with bare board, constant current, DC24V, rigid LED light



Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands. **Tel:** 0031-79-3411152, 0031-79-3318921 **Fax:** 0031-79-3318919

Specification

Product Name: Rigid LED Light for Side Lighting

Model: Z6003XBD/Z6005XBD

Z6003XBD

Z6005XBD

Applications

Non-waterproof products, suitable for indoor single-sided light box of no more than 200cm [78.74in] width and 8-20cm[3.15~7.87] depth and 14-40[5.51~15.75]cm depth double-sided light box, also can be used in outdoor waterproof light box.

Features

Luminous efficacy up to 97 lm/W with high power Cree LED mounted;

Uniform illumination on the face of light box with tens technology;

Energy efficient and environment-friendly with brightness adjustable design, optimized brightness can be achieved at different time;

CE certificated , RoHS compliant and UL94 V-2 flame-retardant grade.

Installation

Initially fixed with double-sided adhesive tape and further secure with self-provided screws.

Warranty

5 years or 22,000 hours, whichever come first.



Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands.

Optical and Electrical Parameters:

P/N	LED Color	Color Temperature(K) Wavelength(nm)	Beam Angle (°)	Luminou s Flux (Im)	CRI	Luminou s Efficacy (Im/W)	Working Voltage (V DC)	Working Current (mA)	Power (W)
	Natural White	6000		660	≥75	97	24	283	6.8
Z6003XBD	Warm White	3000	10*10	501		74			
	Daylight White	4500		570		84			
Z6005XBD	Natural White	6000	10*40	1100		100	24	458	
	Warm White	3000		835		76			11.0
	Daylight White	4500		950		86			

Others:

P/N	LED Color	Length		LED	Weight (_/pc)		Operating Temperature		Storage Temperature		IP
F/IN		(mm)	(in)	Quantity (pcs)	g	lb	(°C)	(°F)	(°C)	(°F)	Grade
Z6003XBD	Natural White Warm White Daylight White	297.5	11.713	3	57	0.126	-25~		-25		
Z6005XBD	Natural White Warm White Daylight White	517.5	20.374	5	92	0.203	+60	-13~+140	~ +70	-13~+158	

Notes:

Testing environment temperature: 25±2°C[77±3.6°F]

The above data are typical values; the actual data of each single product could differ from the typical values. The data subject to change without prior notice.



Profile Drawings:





Light Distribution:





Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands.
 Tel:
 0031-79-3411152, 0031-79-3318921

 Fax:
 0031-79-3318919

Packaging Diagram

Z6003XBD





Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands.
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 Fax:
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Packaging:

Carton Dimension:37*24.2*27 cm=0.0241(1±10%)CBM [14.57*9.53*10.63in]

5 products per layer, 10 layers in total, totally 50 products, 1 manual and 1 bag of twist-on wire connectors per carton.

Net Weight(N.W):2.9(1±10%)kg [6.393(1±10%)lb];Gross Weight(G.W):4.7(1±10%)kg [10.362(1±10%)lb].



Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands.

Z6005XBD





Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands. **Tel:** 0031-79-3411152, 0031-79-3318921 **Fax:** 0031-79-3318919

Packaging:

Carton Dimension:58.3 *24.2* 27cm=0.038(1±10%)CBM [22.95*9.53*10.63in]

5 products per layer, 10 layers in total, totally 50 products, 1 manual and 1 bag of twist-on wire connectors per carton.

Net Weight(N.W):4.6(1±10%)kg [10.141(1±10%)lb];Gross Weight(G.W): 6.8(1±10%)kg [14.992(1±10%)lb].

Note: The actual packed quantity and weight subject to change without prior notice.



Spectrumlaan 47-49 2665NM Bleiswijk The Netherlands.

1.Installation Notes

- 1) Clean the mounting surface before installing the products.
- Make sure the polarity of connections made at the rigid LED light and power supply is correct, otherwise the products will not light.
- 3) The connection made at DIM end must be correct, or the products will be destroyed (If the product is not connected to the dimming function, please cut the exposed wire of DIM and insulate it).
- Connect the wires of rigid LED light to power supply firmly; it will be fine until the wires cannot be pulled out.
- 5) The maximum power per string cannot exceed 100W.
- 6)The supply wires between the power supply and the rigid LED light is no longer than 0.5m(19.69in) when the maximum quantity of products are used and the supply wires should be AWG18# or thicker wires, or the connected quantity should be reduced.

2.Notes for Optional Supplies

- Forbid using any acid or alkaline adhesive to secure the products.
- 2) Please choose the safety-certificated switch power supply with 24VDC output voltage (with short-circuit, overvoltage and overcurrent protections; the tolerance range for output voltage of the power supply is ±5%). If more products needed, ensure the power supply has more than 20% load reserve.

Malfunctions & Solutions Table

Malfunction & Solutions Table					
Symptoms	Possible Causes	Solutions			
	1. There is no primary power.	Power on.			
All the rigid LED lights do not light	2.Short circuit occurs at the input of power supply; No primary power for the power supply; The power supply is auto protected since the short or open circuit occurs at the output of the power supply.	Remove any short or open circuits and other malfunctions, and energize the fixture.			
	 The input wires of the rigid LED lights are connected reversely. 				
	 No primary power for some switch power supplies. 	Check the power supply and remove malfunctions.			
Some rigid LED lights do not light	Some rigid LED lights are wrongly connected to the power supply.				
	Some rigid LED lights' polarities are connected reversely.	Connect the wires correctly.			

Malfunction & Solutions Table(Continued)					
Symptoms	Possible Causes	Solutions			
	1. The power supply is over loaded.	Use higher or more power supplies.			
Brightness of the LED is dim or not even	2. The wire loss of the power supply is too much.	Make sure the working voltage of rigid LED light is within 95%-105% of the rated voltage, shorten the supply wire between the power supply and the first rigid LED light or use thicker supply wires.			
	 Too many rigid LED Lights are connected. 	Adjust the quantity of LED lights for each string to meet the maximum quantity per string.			
LEDs are blinking	1. Intermittent connections exist.	Find the intermittent connections and remove any malfunctions.			
	2.Switch power supply doesn't work.	Replace the power supply.			

▲ WARNNING

- This product is non-waterproof, forbid being exposed to the damp environment.
- Forbid disassembling or modifying this product.
- Do not install the products with power on.
- The products should be installed or maintained ONLY by the professional persons.
- Check the supply voltage and wire connections before energizing the fixture.
- These products are suitable for use in dry locations.
- These products are only suitable for connection to a circuit from a class 2 power source.
- There products have not been evaluated for use when connected to a power source that does not comply with class 2 voltage and energy limited supplies.

Declaration

- Warranty: 5 years or 22,000 hours, whichever comes first.
- If the external flexible cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
- All the data and pictures in this manual are subject to actual products.
- · Information provided is subject to change without notice.

Rigid LED Light for Side Lighting

Manual

Z6003XBD Z6005XBD





Read this manual carefully before using this product and keep it!

TIDER[®]SIGN

Model and Specification

Series	Rigid LED Ligh	ight for Side Lighting		
Model	Z6003XBD	Z6005XBD		
Power (W)	6.8	11		
Working Voltage (VDC): 24				
Operating Temperatu	ıre (°C[°F]) :	-25~60[-13~140]		
Storage Temperatur	e(°C[°F]) :	-25~70[-13~158]		

Applications: This product is non-waterproof, can be used in indoor single-sided

light box of no more than 200cm(78.74in) width or height and

8-20cm(3.15-7.87in) depth or 14-40cm(5.51-15.75in) depth double-sided light box. Besides, it also can be used in outdoor waterproof light box.

Profile Drawings



Fig.3

Product Components and Tools Required

1. Installation and Connection Illustration :



2. Application and Installation Illustration :



Notes :

- 1. The maximum gap between the two products is 165mm(6.50in);
- 2. DIM end: dimming function with PWM signal , the range of the signal is 0~+5V;
- The border of the light box should be painted as white or made of the highly reflective material.

3. Product Components and Tools Required :

1. Product Components





2.Tools and Supplies Required





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Glass Glue Self-tapping Screws (ST 3.5)

Installation and Application Examples

Reference Scheme

Size: Length*Width(m[in])	Depth(mm[in])	Layout	Surface Illuminance(lux
2.0*1.5[78.74*59.06]	300[11.81]	1.5m(59.06in) two sides light	500
2.0*1.5[78.74*59.06]	300[11.81]	2.0m(78.74in) two sides light	441
1.5*1.0[59.06*39.37]	180[7.09]	1.5m(59.06in) two sides light	599
1.5*1.0[59.06*39.37]	180[7.09]	1.0m(39.37in) two sides light	835

Notes :

- 1. The above layout data are based on the product with 6000K color temperature;
- The test is done with double-sided light box with 40% luminous transmittance 3M P2 white flex banner.
- The above illuminance values are the average values with uniform surface illumination under this depth;
- 4. The above data are for reference only.

