

EdiCube Series Datasheet



Features :

- Consistent color uniformity
- Wide angle > 145°
- CRI 80
- One LED per module (1W)
- Changeable pitch and Flexible
- Thermal tape on backside

Typical Applications :

- Decorative lights
- Advertising Billboard
- Exit signs
- Panel light
- Ceiling light

Specification :

- Color: ○ ● ●

Table of Contents

General Information.....	3
Product Dimensions.....	4
Light Distribution.....	4
Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$).....	5
Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$).....	5
Product Packaging Information.....	6
Environmental Compliance.....	6
Revision History.....	7
About Edison Opto.....	7

General Information

Introduction

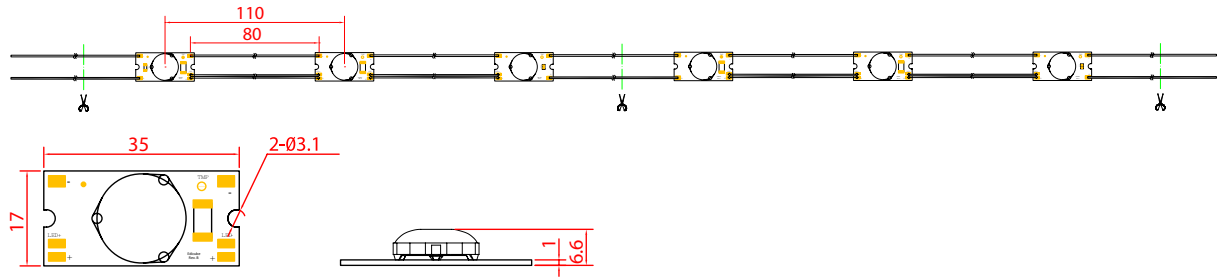
Edicube Series features outstanding lumen output with low power consumption. With secondary optical lens on LED, the emitting angle can be widened so that the module presents excellent light uniformity. Edicube Series is an energy-saving and high efficient solution for TV backlight, panel light and advertising light box.

Product Nomenclature

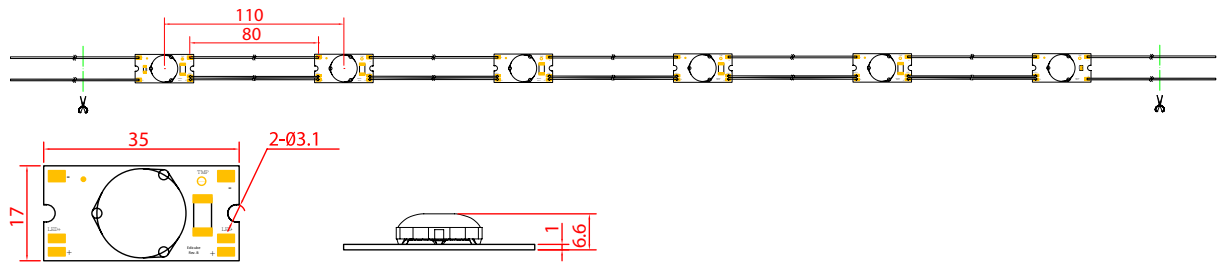
<u>6</u>		<u>LBDN</u>		<u>xW</u>		<u>1</u>		<u>0</u>		<u>XX</u>		<u>XXXXX</u>	
X1		X2		X3		X4		X5		X6		X7	
X1	X2		X3		X4		X5		X6		X7		
Item	Patent Request		Color		Light Angle		Driver		LED No.		Serial No.		
6	Module	LBDP	Yes	CW	Cool White	1	140°~149°	0	No	18	18pcs	xxxxx	--
		LBDN	No	NW	Neutral White					30	30pcs		
				WW	Warm White								

Product Dimensions

EdiCube-18 Dimensions (12V)

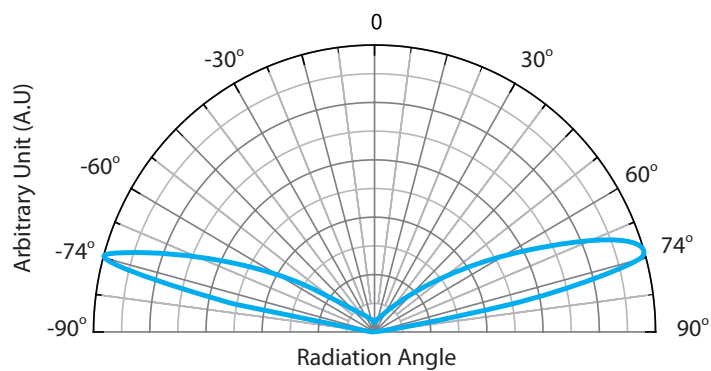


EdiCube-30 Dimensions (24V)



Note:
All dimensions are in millimeters

Light Distribution



Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Units
Forward Current	I_F	350	mA
Operating Temperature	T_{opr}	-25 ~ 60	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-25 ~ 85	$^{\circ}\text{C}$

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum at all time.
2. LEDs are not designed to drive in reverse bias.

Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

EdiCube-18

Order Code	Color	Number of LEDs	Input Voltage	Current (mA)	Flux / Unit* (lm)	CCT(K)
6LBDNCW101800003	Cool White	18	DC 12V	1,800	285	5,700
6LBDNNW101800003	Neutral White				270	4,000
6LBDNWW101800003	Warm White				255	3,000

Notes:

1. 1 Unit* = 3 LED modules
2. Flux is measured with an accuracy of $\pm 10\%$

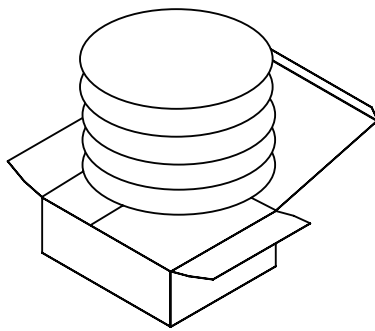
EdiCube-30

Order Code	Color	Number of LEDs	Input Voltage	Current (mA)	Flux / Unit* (lm)	CCT(K)
6LBDNCW103000003	Cool White	30	DC 24V	1,500	570	5,700
6LBDNNW103000003	Neutral White				540	4,000
6LBDNWW103000003	Warm White				510	3,000

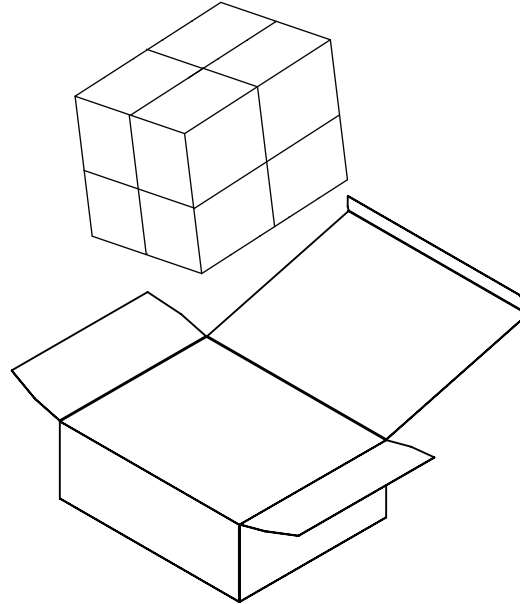
Notes:

1. 1 Unit* = 6 LED modules
2. Flux is measured with an accuracy of $\pm 10\%$

Product Packaging Information



5 Reel / Box



8 Boxes / Carton

Notes :

1. Reel Dimensions : $\varnothing 240 \times 22\text{mm}$
2. Box Dimensions : $250\text{mm}(\text{length}) \times 250\text{mm}(\text{width}) \times 130\text{mm}(\text{height})$
3. Carton Dimensions : $525\text{mm}(\text{length}) \times 525\text{mm}(\text{width}) \times 295\text{mm}(\text{height})$
4. Figures not shown to scale.
5. 11.5kg for 1 carton

Environmental Compliance

EdiCube series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials include lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDEs) which are not used in EdiCube to provide an environmentally friendly product to customers.

Revision History

Versions	Description	Release Date
1	Establish order code information	2014/07/09

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

Copyright©2014 Edison Opto. All rights reserved. No part of publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photo copy, recording or any other information storage and retrieval system, without prior permission in writing from the publisher. The information in this publication are subject to change without notice.

www.edison-opto.com

For general assistance please contact:
service@edison-opto.com.tw

For technical assistance please contact:
LED.Detective@edison-opto.com.tw