

# V-Cove

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V-Cove is a brand of product series that is designed and developed by Brownie Ecotronics, mainly targeted for cove lighting application.

The perfect solution for general cove lighting. Available in CCT 2200K, 2500K, 2700K, 3000K, 3500K, 4000K and 5000K. All luminaires of these series are designed with dark spot-less in between fittings. This fixture length of this series is also customizable, perfect for vanity mirror and other indirect lighting.

DC24V

13.7W/m  
6W/m  
1.5W/m

IP44

Indoor  
use

Ra95 typ  
(applicable for  
CCT 2700K  
above)

Dimmable

Custom  
Length  
(Build-to-order  
basis)

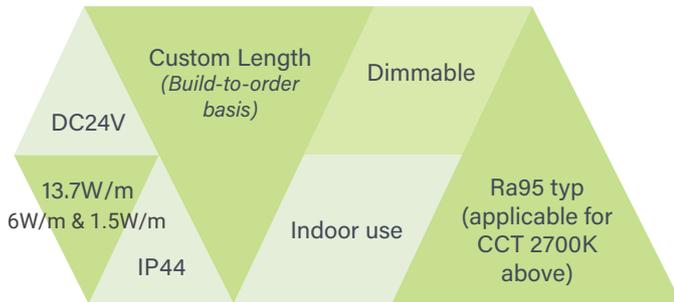
LED pitch 23mm



## FEATURES

- Perfect solution for general cove lighting.
- Available in CCT 2200K, 2500k, 2700K, 3000K, 3500K, 4000K and 5000K.
- Excellent efficiency using NICHIA Japan LED with optimized circuit design and tight-controlled chip's Vf properties.
- Dark spot-less in between fittings minimized voltage drop due to unique design of power compensation wire.
- Customized solution of different fixture length allows to apply to vanity mirror box and other indirect lighting.
- Excellent colour consistency MacAdam Step 3 Centre Binning (right on top of black locus body line).
- Three (3) types of wattage and brightness; 13.7W/m, 6W/m and 1.5W/m.
- Protection circuits equipped against reverse polarity.

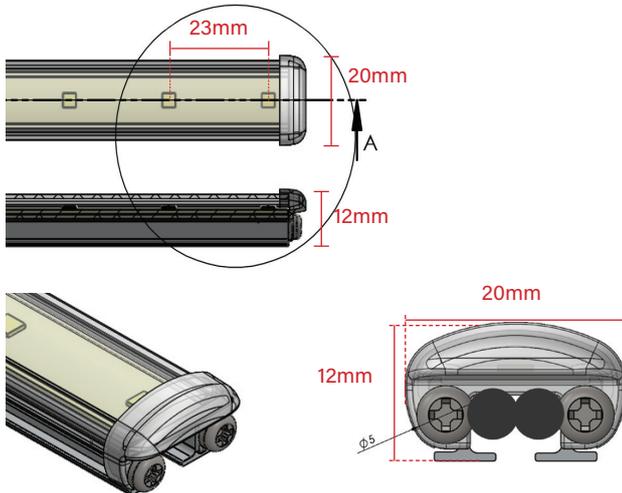
## BASIC SPECIFICATION



+ LED pitch : 23mm

+ LM80 test report available upon request

## MECHANICAL DRAWING



### Male-Female Connector

(Standard Spec comes with this connector)



White Cable = Positive (24Vdc +)

Black Cable = Negative (-)

## COMPETITIVE ADVANTAGE

### 1. Dark Spot-Less Design:

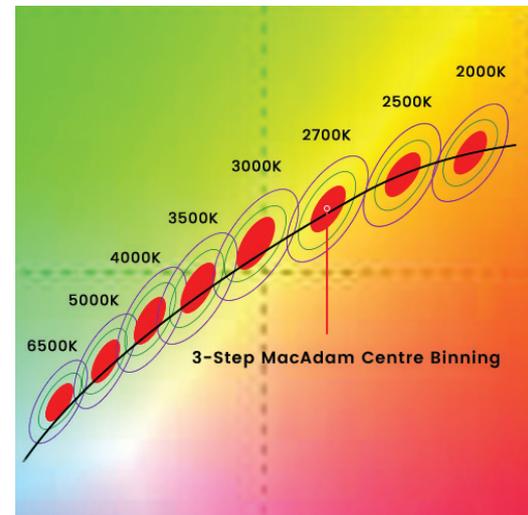
In order to avoid typical installation-related problem of dark spot caused in between fittings for cove lighting, LEDs at the both two ends of fixtures are positioned at extreme edge of the body with translucent end-cap material. With this design, even if there are some gap (typically 15mm~30mm), dark spot won't be seen.



Equal LED-LED pitch maintained to achieve uniform lighting effect.

### 2. Wide Variety of Colour Temperature:

To accommodate various lighting requirement, V-Cove is available in 7 different types of colour temperature; 2200K, 2500k, 2700K, 3000K, 3500K, 4000K and 5000K.



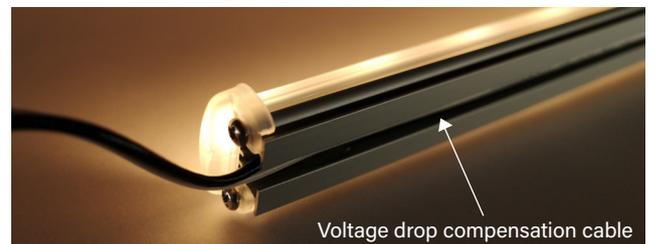
Nichia Chromaticity Diagram: Brownie Ecotronic is using the 3-Step MacAdam Centre Binning to ensure the excellent color consistency of our LED.

### 3. Uncompromised Light Quality and Colour Rendering:

Standard spec is Ra95 (typical) or minimum Ra90. By selecting extremely high colour rendering LED material, we intended to enhance the comfort to the lighting environment. (\*Except CCT 2200K and CCT 2500K)

### 4. Minimized Voltage Drop:

Due to implementation of unique design of voltage drop compensation wire laid all the way through the casing body, possible voltage drop can be significantly reduced.



Voltage drop compensation cable

## MODEL NO

Model No

**VX**      **XXXX** – **XXX** **X** – **C**

Fixture Type

Fixture Length

Color Temperature

Type of LED used

Connector

### Fixture Type

- VM** → V-Cove 6.0W/m, Build-to-order
- VH** → V-Cove Standard (13.7W/m)
- VE** → V-Cove 1.5W/m

### Fixture Length

- 1000** → approx. 1m /= L962mm, **Standard**
- 0800** → approx. 0.8m / L800mm, **Standard**
- 0300** → L318mm, **Standard**
- 1200** → approx. 1.2m / L1123mm, Build-to-order
- 0500** → approx. 0.5m / L480mm, Build-to-order
- 0150** → approx. 15cm / = L161mm, Semi-custom

### Color Temperature

- 503** → Daylight 5000K
- 403** → Cool White 4000K
- 353** → 3500K
- 303** → Light Warm White 3000K
- 273** → Standard Warm White 2700K
- 253** → Dark Warm White 2500K
- 223** → Amber-Like Warm White 2200K

### Type of LED used

- A** → Type A, manufactured by NICHIA Japan (Ra85 typ. For CCT 2500K & 2200K)
- B** → Type B, manufactured by NICHIA Japan (Ra95 typ. Except for CCT 2500K & 2200K)

### Connector

- C** → with male-female connector, **Standard**

### Example

**VM**

**1000** – **303**

**B** – **C**

Fixture Type

Fixture Length

Color Temperature

Type of LED used

Connector

V-Cove 6.0W/m,  
Standard

approx.  
1m /= L962mm,  
Standard

Light Warm  
White 3000K

Type B,  
manufactured by  
NICHIA Japan  
(Ra95 typ.)

with male-  
female  
connector

PRODUCT SPECIFICATIONS						
Product Name	V-Cove 6.0W/m (LED 23mm Pitch) Medium Brightness		V-Cove 13.7W/m (LED 23mm Pitch) STANDARD		V-Cove 1.5W/m (LED 23mm Pitch) Low Wattage/Low Brightness	
Model No.	VM0300-xxxx (L318mm)	VM1000-xxxx (L962mm)	VH0300-xxxx (L318mm)	VH1000-xxxx (L962mm)	VE0300-xxxx (L318mm)	VE1000-xxxx (L962mm)
Input Voltage	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Power Consumption	2.0 W	6.0 W	4.6 W	13.7 W	0.5 W	1.5 W
Dimension (mm)	318*20*12(H)	962*20*12(H)	318*20*12(H)	962*20*12(H)	318*20*12(H)	962*20*12(H)
Weight	64 grams	190 grams	64 grams	190 grams	64 grams	190 grams
Casing Body	Aluminium Heatsink with UV-resistant Polycarbonate Semi-Frosted Diffuser					
LED Beam Angle	110°	110°	110°	110°	110°	110°
Operating Temperature	-10°C~50°C	-10°C~50°C	-10°C~45°C	-10°C~45°C	-10°C~50°C	-10°C~50°C
Max. Length of Series Connection	10 meter	10 meter	5 meter	5 meter	16 meter	16 meter
Option Parts	Mounting clip bracket 0° (flat) type / 45° fixed angle type					
No of LEDs	14	42	14	42	14	42
Power Supply Unit (Gear-Driver)	24Vdc Constant-Voltage Switching Power Supply (*TDK Lambda Brand)					
Dimmable Control	Dimmable	Dimmable	Dimmable	Dimmable	Dimmable	Dimmable
Lumens (typical @ 3000K)	221	667	430	1310	73	219
Available LED Color						
Daylight 5000K <i>*Build-to-order</i>	●	●	●	●	●	●
Cool White 4000K	●	●	●	●	●	●
3500K <i>*Build-to-order</i>	●	●	●	●	●	●
Light Warm 3000K	●	●	●	●	●	●
Standard Warm 2700K	●	●	●	●	●	●
Dark Warm 2500K	●	●	●	●	●	●
Amber-Like Warm 2200K	●	●	●	●	●	●
RGB Full Color <i>*Build-to-order</i>	NA	NA	NA	NA	NA	NA

\* For installation/wiring, refer to page 41.

+ LED Pitch: 23mm + Comply with IS 10322 IEC60598-2-20:2014 standards  
 +LM80 test report available upon request

## OPTIONAL ACCESSORIES

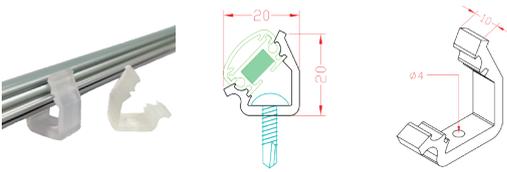
### 1 Mounting Clip Bracket 0° Flat Type

Model: MC-0DEG



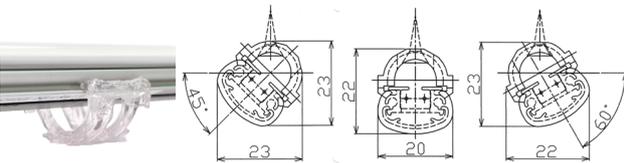
### 2 Mounting Clip Bracket 45° Type

Model: MC-45DEG



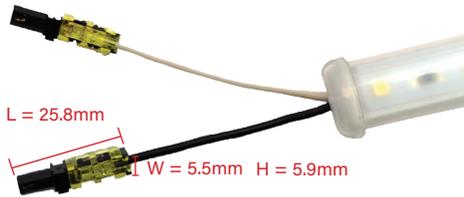
### 3 Angle-Adjustable Mounting Bracket

Model: MC-AJ-01

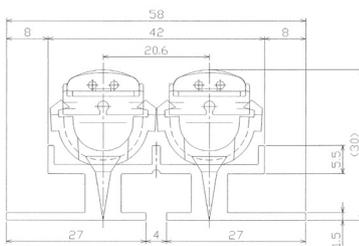
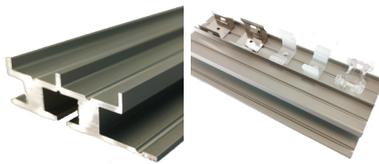


### 4 Clip (plug-in) Connector / Model CN-PLIN-1

Pre-connection to fixture can be done on "Build-to-order" basis.



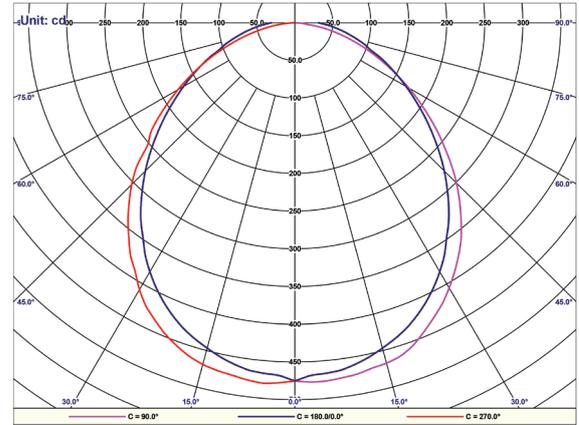
### 5 Aluminum Guide Rail



## PHOTOMETRICS

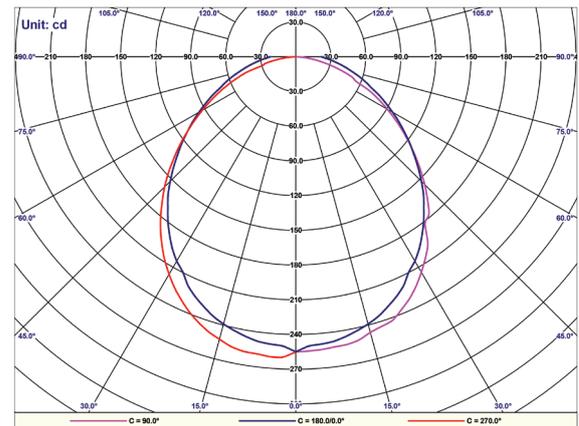
### BROWNIE Lab 190214 VH1000-303B-C

Article No.: VH1000-303B-C  
 Luminous flux (Luminaire): 1263 lm  
 Luminous flux (Lamps): 1263 lm



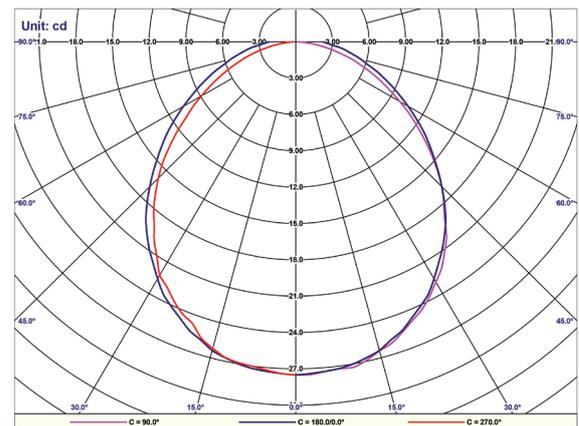
### BROWNIE Lab 190215 VM1000-303B-C

Article No.: VM1000-303B-C  
 Luminous flux (Luminaire): 689 lm  
 Luminous flux (Lamps): 689 lm



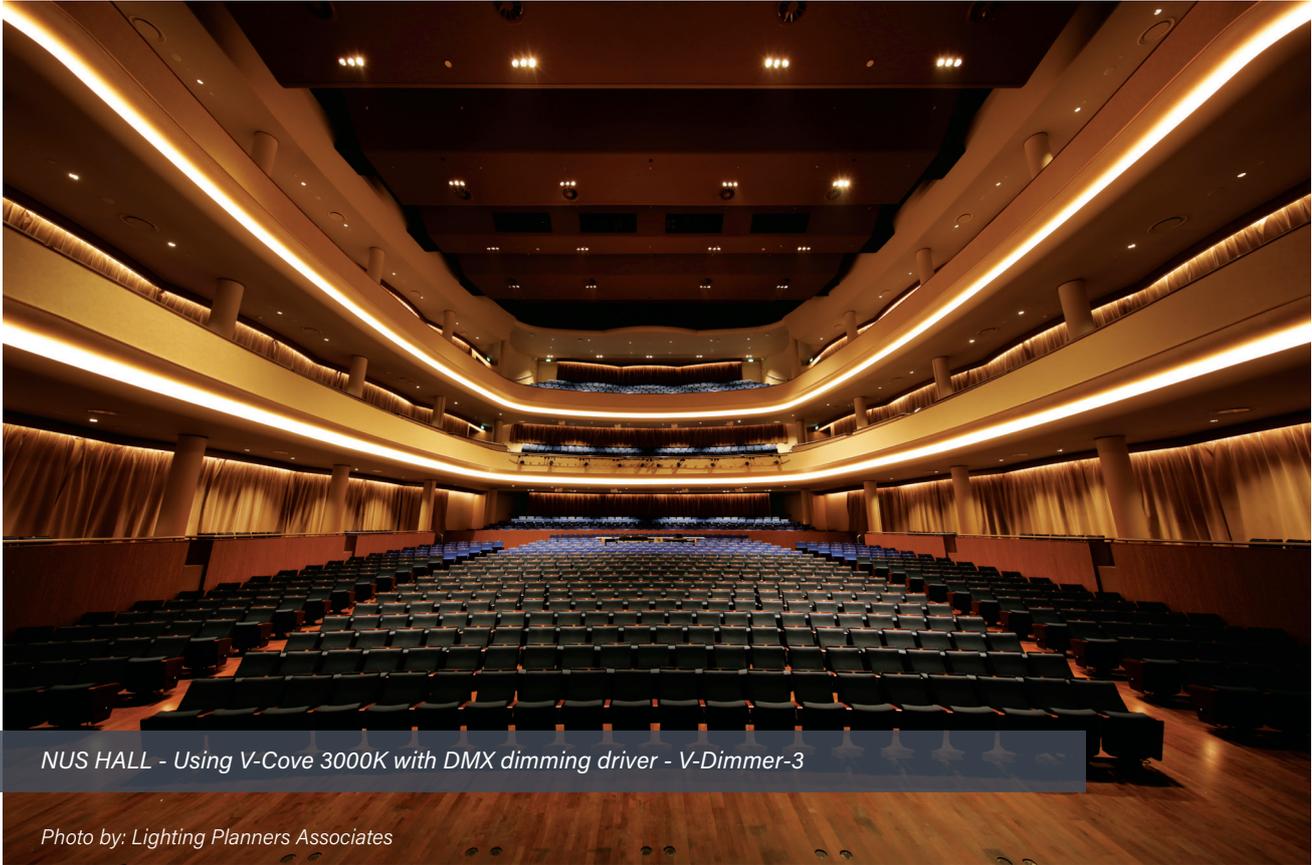
### BROWNIE Lab 190223 VE0300-303B-C

Article No.: VE0300-303B-C  
 Luminous flux (Luminaire): 73 lm  
 Luminous flux (Lamps): 73 lm



※For IES data, please contact our sales staff or distributor

## PROJECT REFERENCE



NUS HALL - Using V-Cove 3000K with DMX dimming driver - V-Dimmer-3

Photo by: Lighting Planners Associates



Kinokuniya Book Shop at Takashimaya using V-Cove (ver 1) 3000K