

V-Cove Luminous

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

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 2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 6500K, 7800K. 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

Ra93 typ

Dimmable

Custom
Length
*(Build-to-order
basis)*

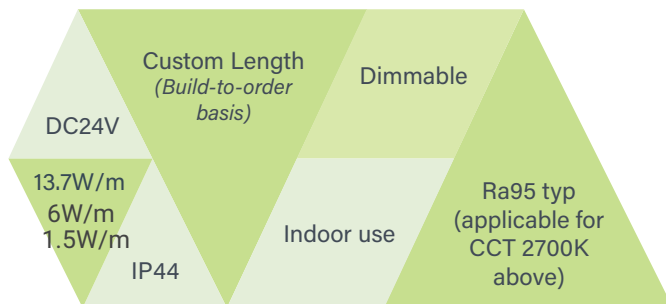
R9 90/ CRI98 available upon semi-custom request



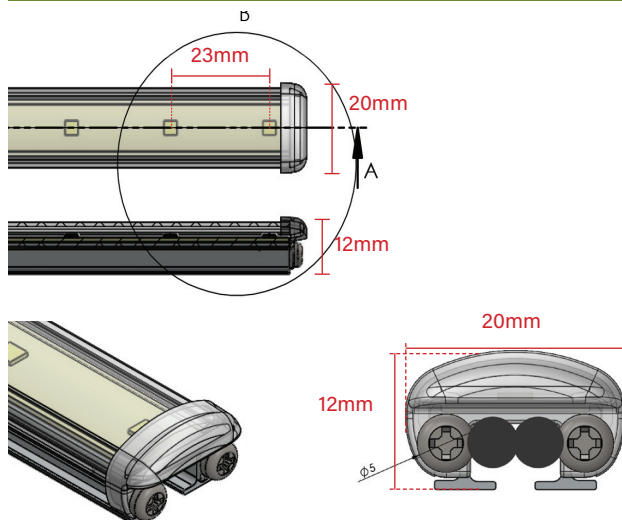
FEATURES

- Perfect solution for general cove lighting.
- Available in CCT 2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K, and 7800K.
- 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.
- R9 90 CRI Ra98 Available upon semi-custom request
⇒ Referto modelcodepage

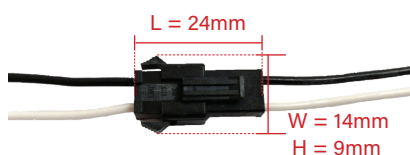
BASIC SPECIFICATION



MECHANICAL DRAWING



Male-Female Connector
(Standard Spec comes with this connector)



White Cable = Positive (+)
Black Cable = Negative (-)

COMPETITIVE ADVANTAGE

1. Dark Spot-Less Design:

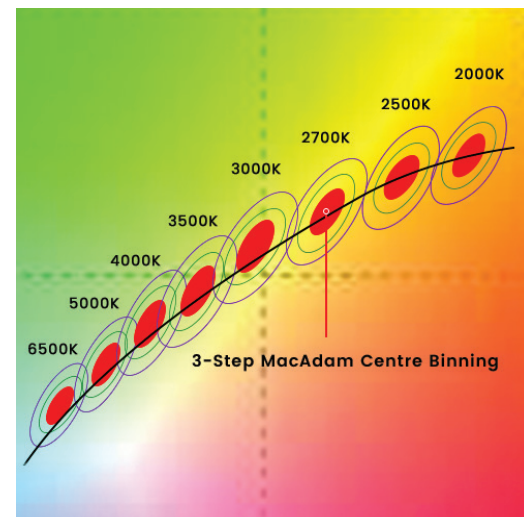
In order to avoid typical installation-related problem of dark spot caused in between fittings for cove lighting, LEDs at the both two ends of fixtures are positioned at extreme edge of the body with translucent end-cap material. With this design, even if there are some gap (typically 15mm~30mm), dark 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; 2000K, 2500K, 2700K, 3000K, 3500K, 4000K and 6500K.



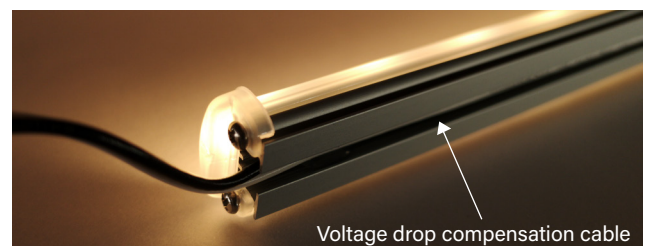
Nichia Chromaticity Diagram: Brownie Ecotronic is using the 3-Step MacAdam Centre Binning to ensure the excellent color consistency of our LED.

3. Uncompromised Light Quality and Colour Rendering:

Standard spec is Ra93 (typical) or minimum Ra90. By selecting extremely high colour rendering LED material, we intended to enhance the comfort to the lighting environment.

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.



MODEL NO

Model No

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

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 Standard
- 0500** → approx. 0.5m / L480mm, Build-to-order
- 0150** → approx. 15cm / = L161mm, Semi-custom

Color Temperature

- 78xx** → Clear White (high CRI) 7800K
- 403** → Cool White 4000K
- 353** → 3500K
- 303** → Light Warm White 3000K
- 273** → Standard Warm White 2700K
- 253** → Dark Warm White 2500K
- 203** → Amber-Like Warm White 2000K

Other types of Custom-made CCT Available: 2200K, 4500K, 5000K, 6500K

Type of LED used

- A** → Type A, manufactured by NICHIA Japan (Ra85 typ. For CCT 2500K & 2000K)
- B** → Type B, manufactured by NICHIA Japan (Ra95 typ. Except for CCT 2500K & 2000K)

Connector

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

LS : Luminous series

OS: NICHIA's Optisolis R9 90, CRI Ra98

Example

VM

1000 – **303**

B –

C – **LS**

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

LS: Luminous

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-C (L318mm) -LS	VM1000-xxxx-C (L962mm) -LS	VH0300-xxxx-C (L318mm) -LS	VH1000-xxxx-C (L962mm) -LS	VE0300-xxxx-C (L318mm) -LS	VE1000-xxxx-C (L962mm) -LS
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 Contant-Voltage Switching Power Supply (*TDK Lamba Brand)					
Dimmable Control	Dimmable	Dimmable	Dimmable	Dimmable	Dimmable	Dimmable
Lumens (typical @ 3000K)	300	901	598	1805	76	230
Available LED Color						
Daylight 7800K <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 2000K	●	●	●	●	●	●
RGB Full Color <i>*Build-to-order</i>	NA	NA	NA	NA	NA	NA

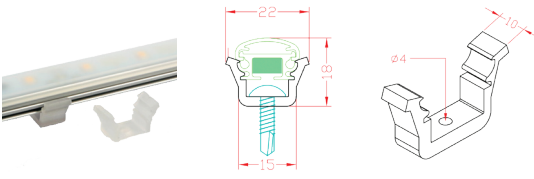
* For installation/wiring, refer to page 41.

+ Other CCT available: 2200K, 1800K, 4500K, 5000K

OPTIONAL ACCESSORIES

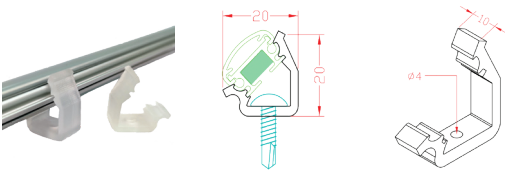
1 Mounting Clip Bracket 0° Flat Type

Model: MC-0DEG



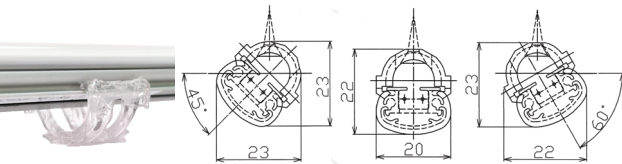
2 Mounting Clip Bracket 45° Type

Model: MC-45DEG



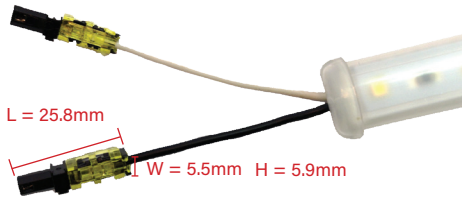
3 Angle-Adjustable Mounting Bracket

Model: MC-AJ-01

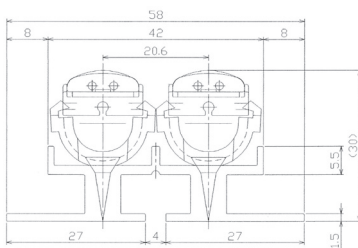
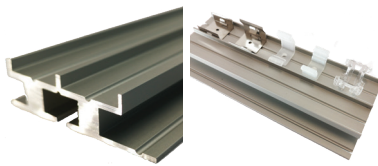


4 Clip (plug-in) Connector / Model CN-PLIN-1

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



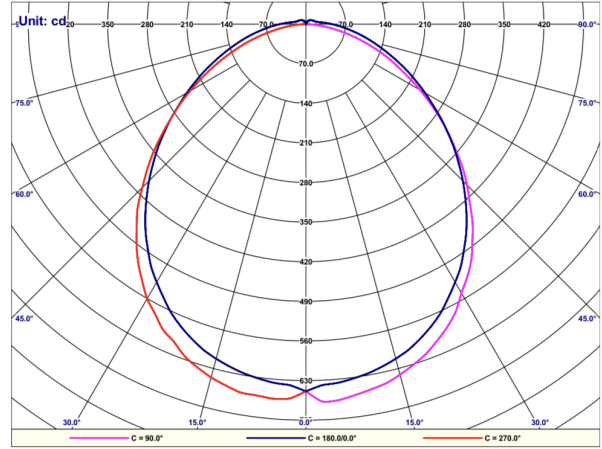
5 Aluminum Guide Rail



PHOTOMETRICS

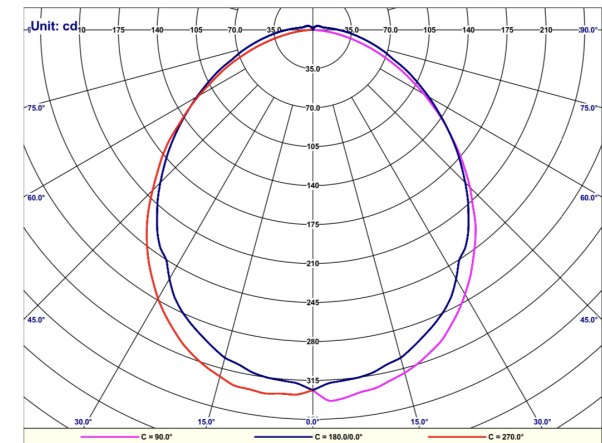
BROWNIE Lab 190214
VH1000-303B-C-LS

Article No.: VH1000-303B-C-LS (13.7W/meter)
 Luminous flux (Luminaire): 1805 lm



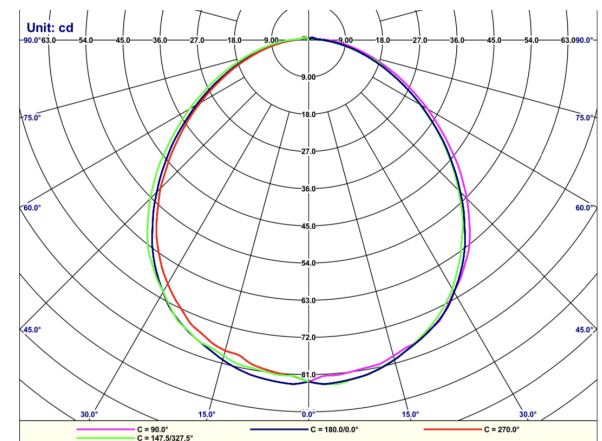
BROWNIE Lab 190215
VM1000-303B-C-LS

Article No.: VM1000-303B-C-LS (6W/meter)
 Luminous flux (Luminaire): 901 lm
 Luminous flux (Lamps): 901 lm



BROWNIE Lab 190223
VE1000-303B-C-LS

Article No.: VE1000-303B-C-LS (1.5W/meter)
 Luminous flux (Luminaire): 230 lm
 Luminous flux (Lamps): 230 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