

# V-Flex 13.7W/m type

## (Pre-wired Multi-Module / In Single Housing Type)

V-Flex 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 1800K 2000K 2200K 2500K 2700K 3500K 4000K and 5000K. All luminaires of these series are designed horizontally-bendable with dark spot-less in between fittings. The fixture length of this series is also customizable, perfect for vanity mirror and other indirect lighting.

DC24V

13.7W/m / 9W/m  
3.0W/m

IP65

Semi-Outdoor

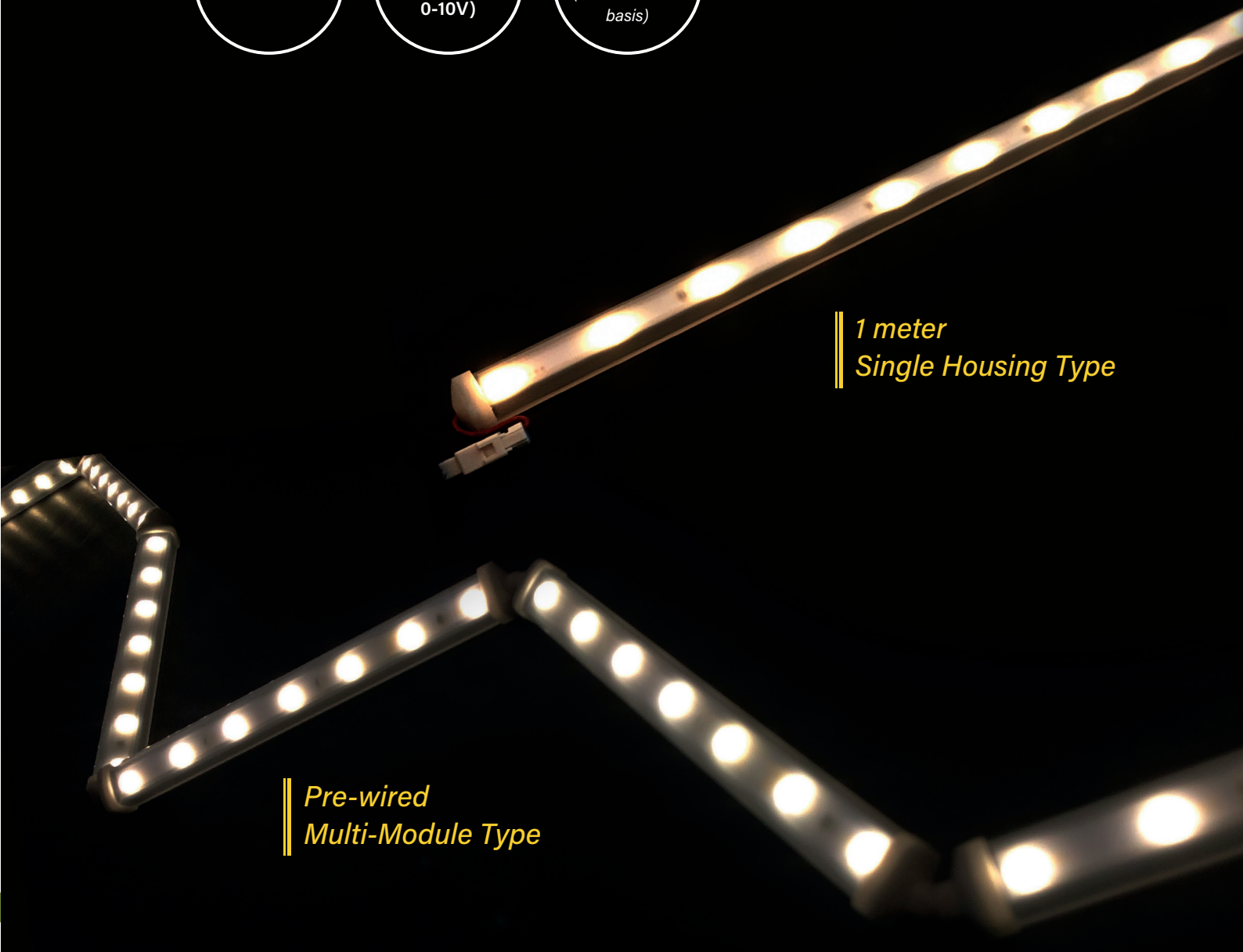
Ra93 typ.  
Applicable for  
all CCT including  
1800K 2000K 2200K

Dimmable  
(Dali, DMX,  
0-10V)

Custom  
Length  
(Build-to-order  
basis)

1 meter  
Single Housing Type

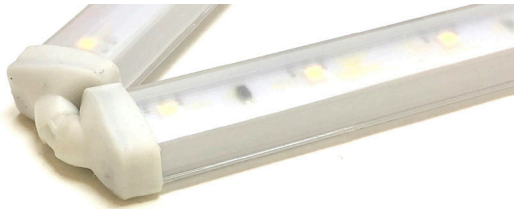
Pre-wired  
Multi-Module Type



## COMPETITIVE ADVANTAGE

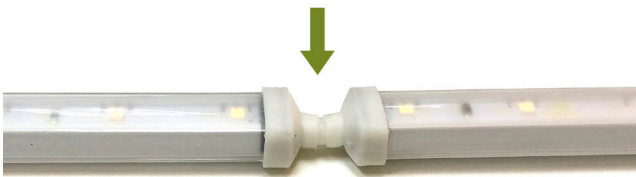
### 1. Rigid Yet Flexible:

Electrical connection error or solder crack are very common problems found in conventional LED strips that uses flexible PCB. In order to eliminate these problems, V-Flex incorporates overmoulded polymer between pre-wired fixtures, thus greatly enhances product reliability and at the same time achieving uniform lighting effect that are free of dark spots in the typical cove application. The overmoulded polymer can be twisted and bent up to 180° at all X.Y.Z (omnidirectional) directions, further enhance the flexibility of application.

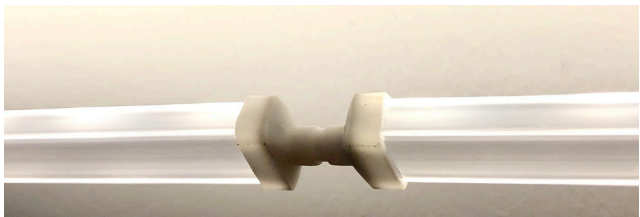


Overmoulded polymer at every end-cap

### 2. Minimized Risk of Dark-Spot at Fixture-to-Fixture Joint Area:

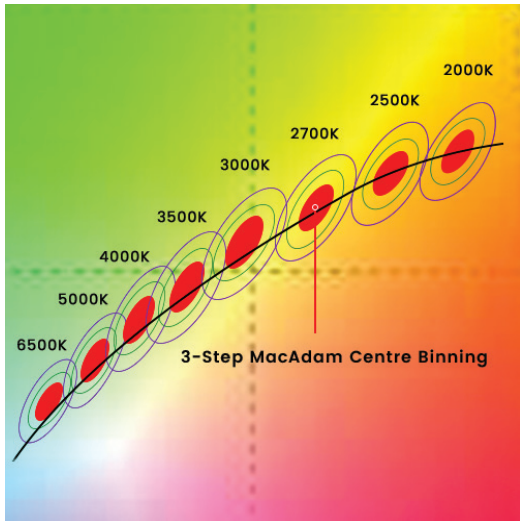


Cuttable on Site (at every L190mm)



50mm away from the wall surface  
→ Perfect uniformity / No dark spot

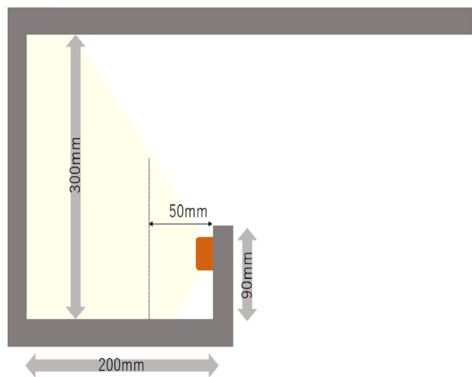
### 3. Reliable NICHIA, Single & Center Colour Binning:



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

### 4. Cuttable at Every L190mm Module Unit

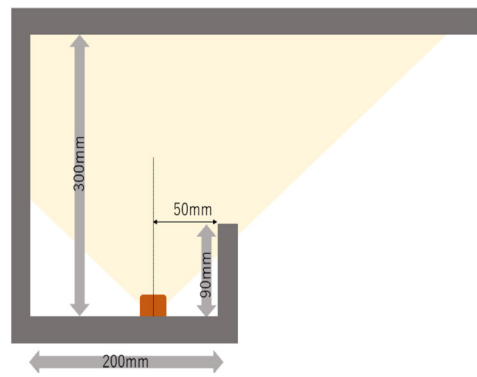
### 5. Reverse Polarity Protection Circuit Built-in



Conventional Mounting Method for Curved Ceiling Cove



Brightness enhanced by approx. 40% (=Minimized Energy)

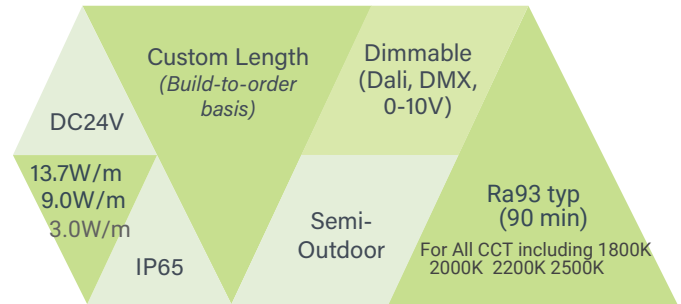


## 13.7W/METER TYPE

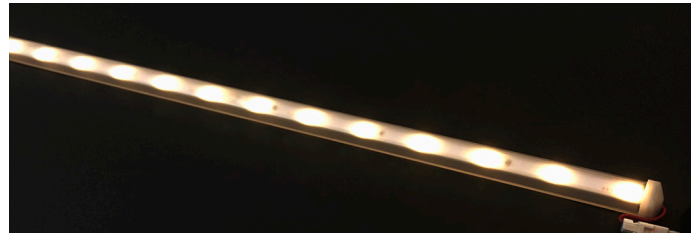
### FEATURES

- Perfect solution for general cove lighting.
- Rigid fixture, yet horizontally-bendable.
- Available in CCT 2200K, 2500k, 2700K, 3000K, 3500K, 1800K 2000K 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.
- Excellent colour consistency MacAdam 3 Step Centre Binning (right on top of black locus body line).
- Three (3) types of wattage and brightness; 13.7W/n 9.0W/m and 3.0W/m.
- Protection circuits equipped against reverse polarity.

### BASIC SPECIFICATION



5-in-1 Pre-wired VF1000-353A-W (L1000mm)



Single Housing Type VF10SH-273A-W (L1000mm)

### PRODUCT SPECIFICATIONS

Product Name	V-Flex 13.7W/meter Type				
Model No.	VL12SH-XXXB-W (L1165mm), Single-Housing	VL1000-XXXB-W (L1000mm), 5-in-1 Pre-wired	VL10SH-XXXB-W (L1000mm), In Single Housing	VL0600-XXXB-W (L600mm), 3-in-1 Pre-wired	VL0200-XXXB-W (L200mm), In Single Housing
Input Voltage	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Power Consumption	16.4 W	13.7 W	13.7 W	8.2 W	2.7 W
Dimension (mm)	1165*19*12(H)	1000*19*12(H)	1000*19*12(H)	600*19*12(H)	200*19*12(H)
Weight	229 grams	190 grams	190 grams	112 grams	38 grams
Casing Body	Aluminium Heatsink with UV-resistant Polycarbonate Semi-Frosted Diffuser				
LED Beam Angle	110°	110°	110°	110°	110°
Operating Temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
Max. Length of Series Connection	5 meter	5 meter	5 meter	5 meter	5 meter
Option Parts	Mounting clip bracket 0° (flat) type / 45° fixed angle type				
No of LEDs	42	35	28	21	7
Power Supply Unit (Gear-Driver)	24Vdc Contant-Voltage Switching Power Supply (TDK Lamba, Sold Separately)				
Dimmable Control	Dimmable	Dimmable	Dimmable	Dimmable	Dimmable
Lumens (typical @ 3000K)	1903	1590	1590	954	318

Available CCT: 5000K, 4000K, 3500K, 3000K, 2700K, 2500K, 2200K 200K 1800K

Lumen output for type "OS" CRI 98 (typical) R9 90 is lower than standard model by approx 32%

## MODEL NO

### Model No

XX XXXX – XXXA – W – XX

Fixture Type

Fixture Length

Color Temperature & Color Rendering Index

Connector

### Fixture Type

- VF → V-Flex Standard (9.0W/m)
- VL → V-flex Hight Wattage type (13.7W/m)

### Fixture Length

- 1000 → 1m L1000mm, 5-in-1 Pre-wired Module
- 10SH → 1m L1000mm, **Standard**, In Single Housing
- 0600 → L600mm, **Standard**, 3-in-1 Pre-wired Module
- 0200 → L200mm, **Standard**, In Single Housing
- 12SH → L1.2m / L1165mm, **Standard**, In Single Housing

### Color Temperature & Color Rendering Index

- 503B → Daylight 5000K
- 403B → Cool White 4000K
- 353B → 3500K
- 303B → Warm White 3000K
- 273B → Warm White 2700K
- 253B → Warm White 2500K
- 223B → Warm White 2200K

### Connector

- W → with IP65 male-female connector, **Standard**
- N → with non-IP male-female connector, custom spec (Build-to-order)



for waterproof connector



for non-waterproof connector

OS: CRI 98 R9 90 (typical)  
as semi-custom spec

### Example

VL

Fixture Type

V-Flex 13.7W/m

1000

Fixture Length

1 meter L1000mm,  
**Standard**, Pre-wired  
5-in-1 Type

303A

Color Temperature & Color Rendering Index

Light Warm White 3000K, CRI  
Ra85 typical manufactured by  
NICHIA Japan

W

Connector

with waterproof  
IP65 male-female  
connector

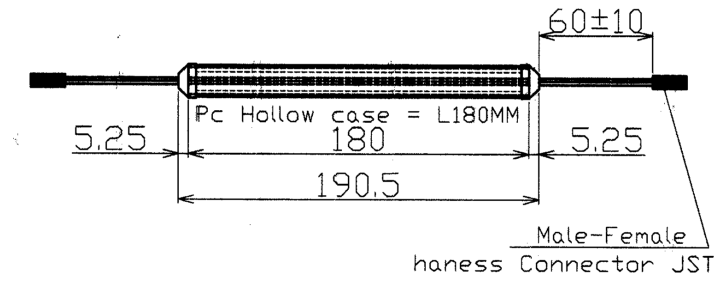
## MECHANICAL DRAWING

1

190mm = 1-in-1

VF0200-XXXX-W /  
VL0200-XXXX-W

L200mm in Single  
Housing



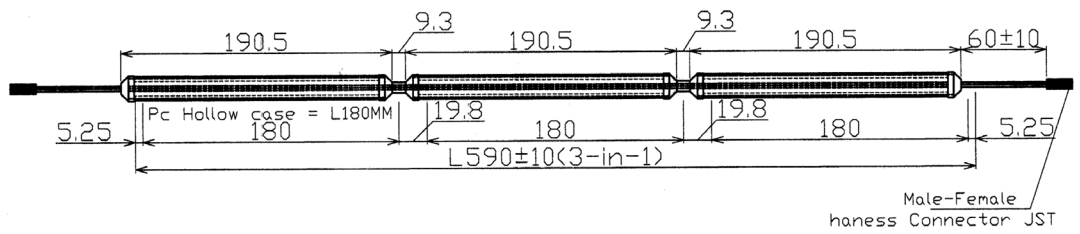
191mm

2

Approx.  
0.6m = 3-in-1

VF0600-XXXX-W /  
VL0600-XXXX-W

L600mm  
3 Modules Pre-wired

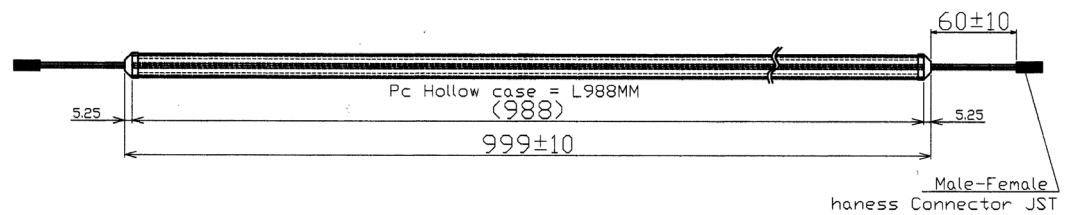


599mm

3

1m in Single  
Housing

VF10SH-XXXX-W /  
VL10SH-XXXX-W  
L1000mm in Single  
Housing



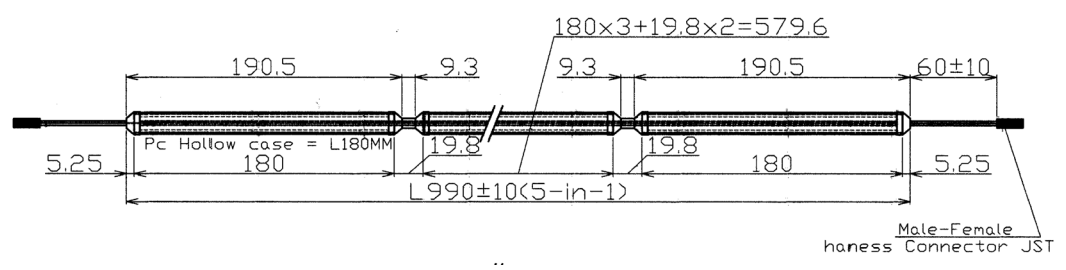
999mm

4

Approx.  
1m = 5-in-1

VF1000-XXXX-W /  
VL1000-XXXX-W

L1000mm  
5 Modules Pre-wired

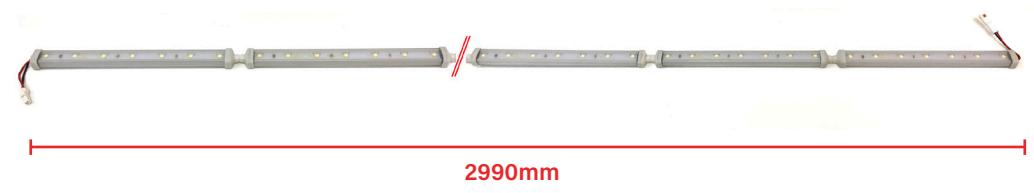
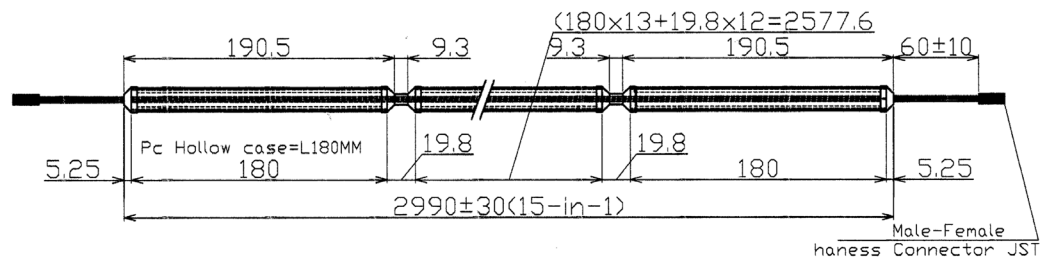


5

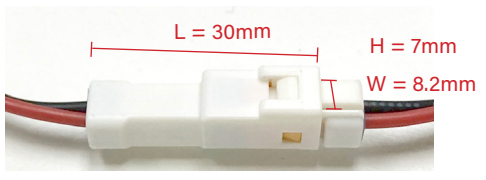
Approx.  
3m = 15-in-1

VF3000-XXXX-W /  
VL3000-XXXX-W

L3000mm  
15 Modules Pre-wired

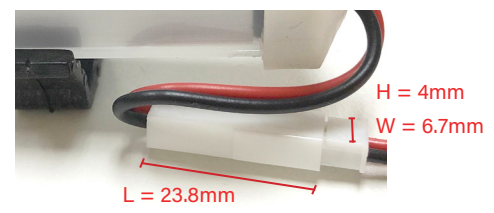


**For Waterproof Connector:**  
**Male-Female Connector**  
(Standard spec comes with this connector)



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

**For Waterproof Connector:**  
**Male-Female Connector**  
(Custom-made non-waterproof type, build-to-order)

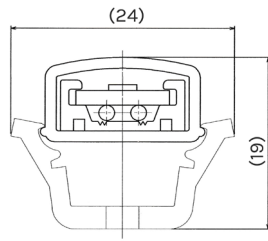
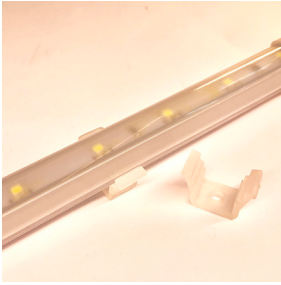


White /or Red Cable = Positive (+)  
Black Cable = Negative (-)

## OPTIONAL ACCESSORIES

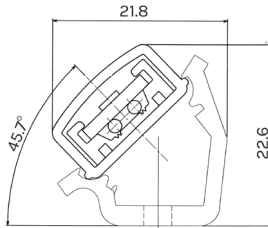
### 1 Mounting Clip Bracket 0° Flat Type

Model: MC-0DEG



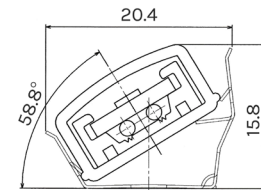
### 2 Mounting Clip Bracket 45° Type

Model: MC-45DEG

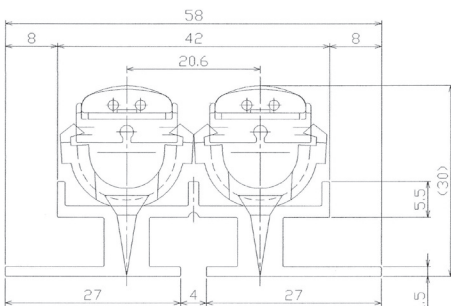
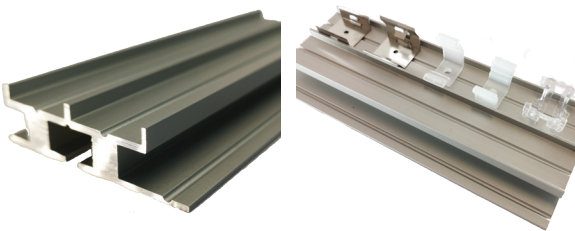


### 3 Metal Mounting Clip 30° Type

Model: MMC-30DEG



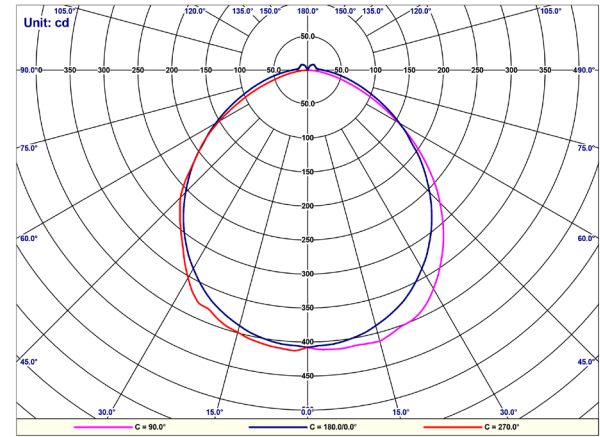
### 4 Aluminum Guide Rail



## PHOTOMETRICS

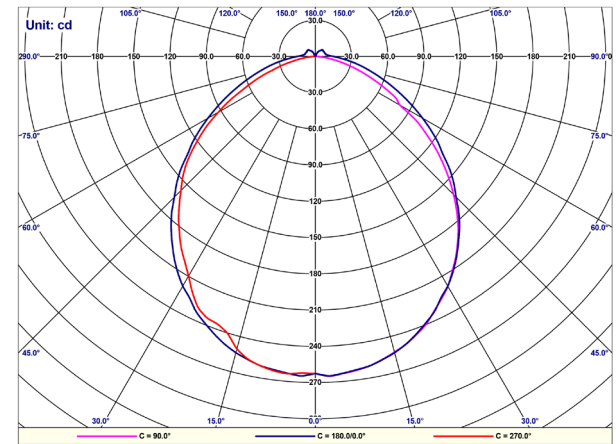
**BROWNIE Lab 190214**  
VL1000-303B-W

Article No.: VL1000-303B-W  
Luminous flux (Luminaire): 1590 lm  
Luminous flux (Lamps): 1590 lm



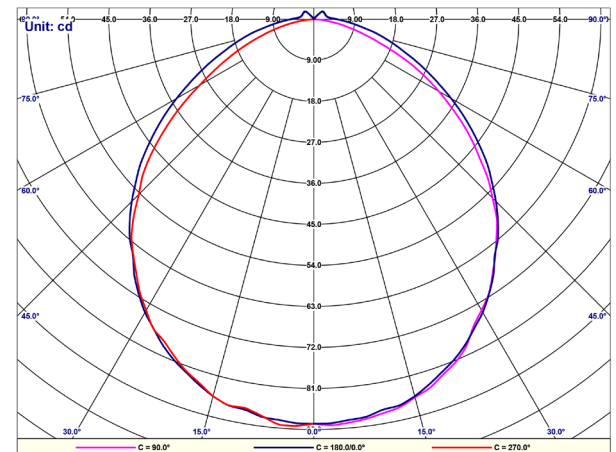
**BROWNIE Lab 190215**  
VL0600-303A-W

Article No.: VL0600-303B-W  
Luminous flux (Luminaire): 954 lm  
Luminous flux (Lamps): 954 lm



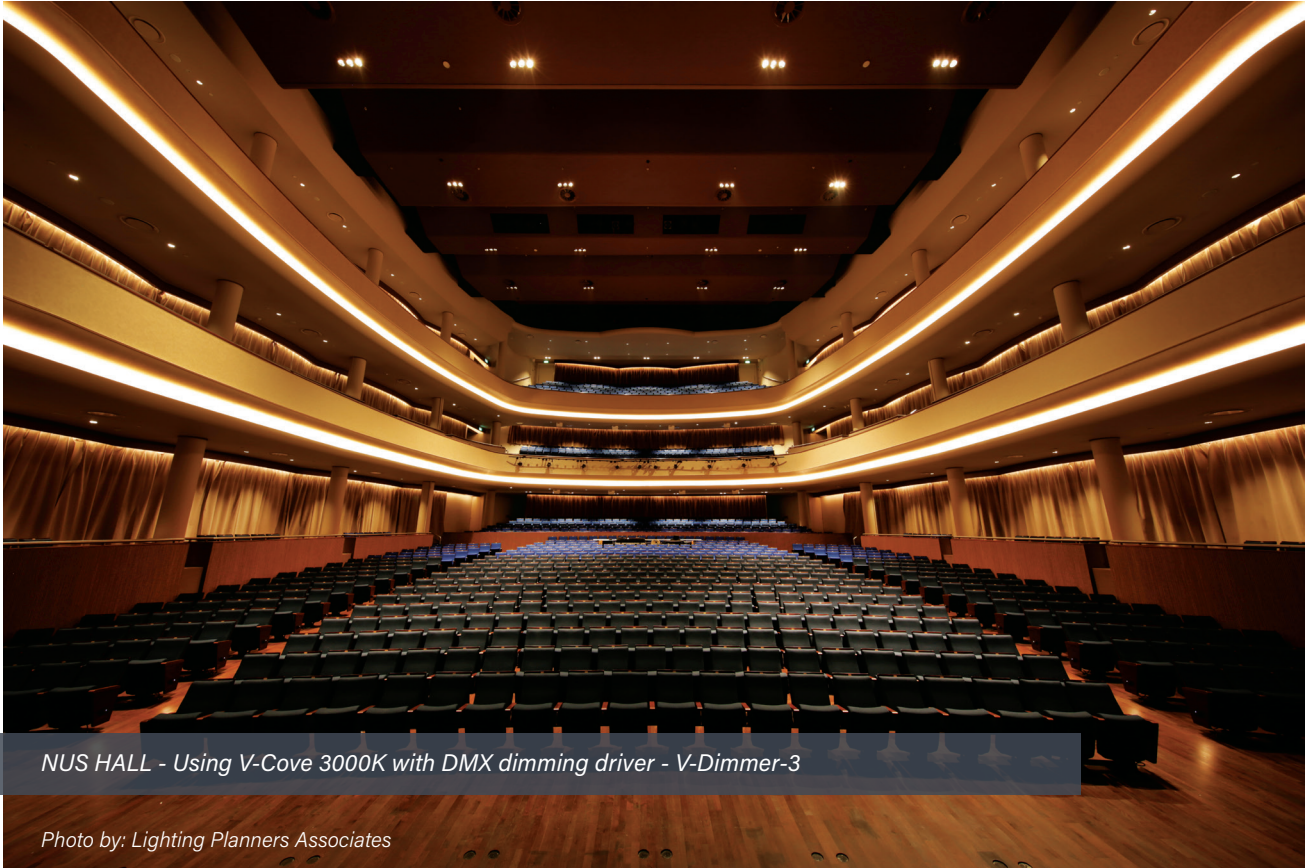
**BROWNIE Lab 190223**  
VL0200-303A-W

Article No.: VL0200-303B-W  
Luminous flux (Luminaire): 318 lm  
Luminous flux (Lamps): 318 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