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⚡ CONSTANT CURRENT

💧 WATERPROOF IP67

💡 HIGHPOWER LED

📐 WIDE BEAM ANGLE 165°

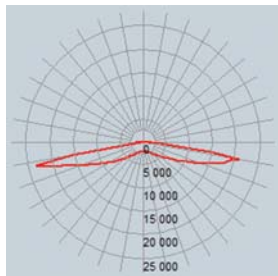
renDy-WM

CCD LENS TYPE
LED MODULE

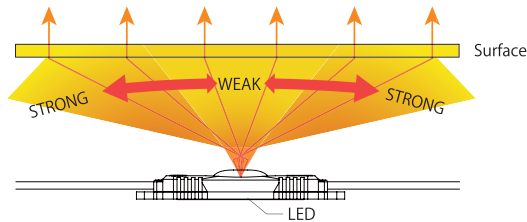
Powered by a constant current power supply
Power supply load is significantly improved
Achieves industry-best class LED luminaire efficacy!: approx. 140lm/W



Light distribution characteristic



• Key feature of new outstanding lens



Impressive lens of renDy-WM-DC12V is designed to diffuse LED lights effectively to illuminate the lighting surface evenly.

* Powered by a constant current power supply

Power supply load is significantly improved*

* It depends on output power of a driver you use.

* Achieves industry-best class LED luminaire efficacy!: approx. 140lm/W

* Extremely low defect rate

* Delivers more bright and uniform illuminance across a sign surface

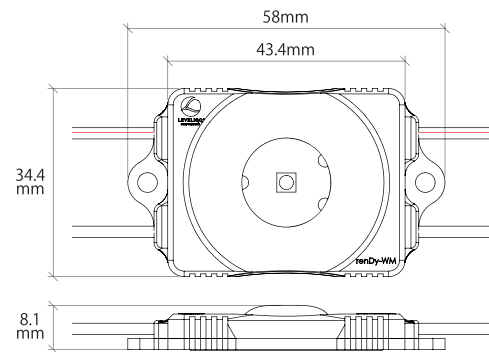
Saving the number of LED modules and installation costs

* Integrated with high quality lens made in Japan

UL applied



renDy-WM-CCD-1P



PRODUCT	renDy-WM-CCD (1P)
DIMENSIONS	58mm × 34.4mm × 8.7mm
INPUT VOLTAGE	3.1V(700mA)TYP
POWER CONSUMPTION	2.2W(700mA)
COLOR TEMPERATURE	Cool [6500K]
IP RATING	IP67
MAXIMUM NUMBER OF CONNECTIONS	Will depend on the power supply. Refer to P.6

WATERPROOF IP67 HIGHPOWER LED

WIDE BEAM ANGLE 165°

renDy-WM

DC12V LENS TYPE LED MODULE

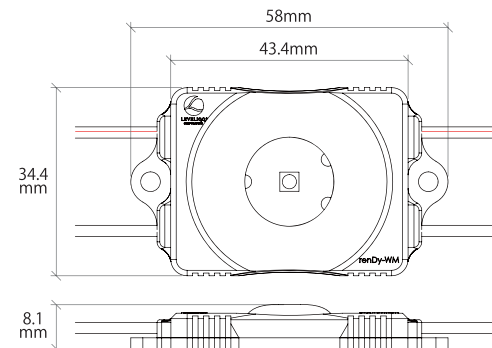
renDy-WM-DC12V is a highly-efficient LED module equipped with Japanese best quality optical lens which can avoid refraction and dazzle of light and operated with a 12VDC switching power supply. Brightness per module is equivalent to 3 modules of traditional model. Therefore you can save module population significantly and initial construction cost, in addition to minimize defect rate eventually.



You can use only 5 LED modules to fill a "V" channel letter of 100mm (3.9inch) stroke width, 75mm (3inch) depth channel and 500mm (19.7 inch) height, and get impressive uniformity for even luminance.

renDy-WM-DC12V-1P

UL applied



PRODUCT	renDy-WM-DC12V (1P)
DIMENSIONS	58mm × 34.4mm × 8.7mm
INPUT VOLTAGE	12VDC
POWER CONSUMPTION	2.7W (±10%) per module
COLORS TEMPERATURE	Cool [6500K] Warm [3000K]
IP RATING	IP67
MAXIMUM NUMBER OF CONNECTIONS	20 modules

POWER SUPPLIES FOR renDy-WM

Constant Current Power Supplies

PART NUMBER	OUTPUT CURRENT	OUTPUT VOLTAGE RANGE	INPUT VOLTAGE RANGE	NUMBER OF MODULES	IP RATING	CERTIFICATES	DIMENSIONS (LxWxH)
CC040A035M	350mA	38~114V	90~305VAC	13~39	IP66	UL/CE/PSE	95×70×32 (mm)
CC060A035M	350mA	86~170V	90~305VAC	29~58	IP67	UL/CE/PSE	177×67.5×37 (mm)

PART NUMBER	OUTPUT CURRENT	OUTPUT VOLTAGE RANGE	INPUT VOLTAGE RANGE	NUMBER OF MODULES	IP RATING	CERTIFICATES	DIMENSIONS (LxWxH)
CC040A070M	700mA	18~54V	90~305VAC	6~17	IP66	UL/CE/PSE	95×70×32 (mm)
CC060A070M	700mA	43~84V	90~305VAC	14~27	IP67	UL/CE/PSE	177×67.5×37 (mm)
CC100A070M	700mA	86~143V	90~305VAC	27~46	IP67	UL/CE/PSE	221×67.5×37 (mm)



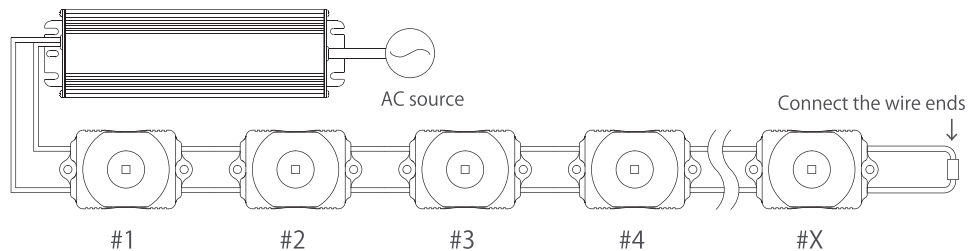
CC040A035M



CC060A070M



CC100A070M



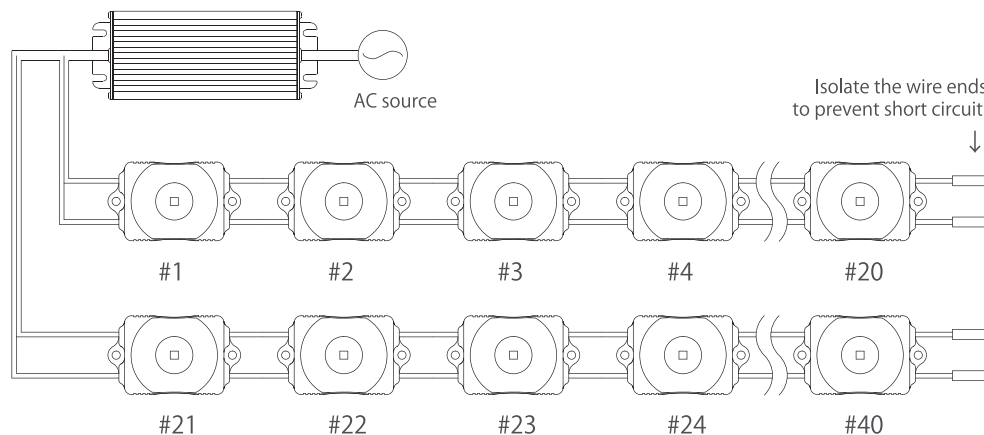
※LED Number /string depends on power supply output.

Constant Voltage Power Supply



CV150M12

PART NUMBER	INPUT VOLTAGE RANGE	INPUT VOLTAGE	MAX. OUTPUT CURRENT
CV150M12	90~305VAC	12VDC	12.50A
IP RATING	CERTIFICATES	DIMENSIONS (LxWxH)	
IP67	UL/CE	205×86×43 (mm)	



BE!

Bright Electronics

LED modules for decorative outdoor signs BE series

Evolved LED modules with both high quality and low cost

Designed in our company LED modules [BE!].

Large scale LED chip purchase and automation of manufacture resulted in astonishingly low cost.

Current control system ensures safety and uniform brightness.

- * **Current control system ensures safety and uniform brightness!**
- * **Simple installation without caring for plus/minus connections!**
- * **Complies with international waterproof standard IP68!**
- * **Safe long 5 years service life warranty.**



Reliability of [BE] is backed by various successful tests

– About reliability –

To preserve customers' trust in our company we perform various reliability tests and make all that our customers could use our products with ease.

We define various test items at our company and perform reliability tests.

We continue our efforts to increase the reliability and quality of our products to answer the demands of our customers.



[BE] reliability test items

- Japan standards for electric devices (integral examination PSE)
- EMI tests (noise measuring test),
- IP tests (water resistance and dust resistance tests)

*Note that we can not provide warranty for analogous goods.

USAGE CAUTIONS


***Electrical connections must be performed by qualified persons.**

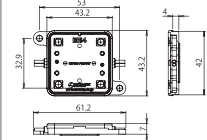
***BE modules are made for 12VDC input.**

- Please carefully calculate voltage drop and analyze other factors affecting wiring between BE modules and switching power supply.
- Please direct all remaining questions about wiring to our company or representatives. Please strictly observe the above requirements (otherwise product warranty may become void).
- Please fix wire junctions and cuts using isolation tape, silicon, etc.
- While lights are tested at the factory prior to shipping please tests them once more after installing them into signboard (recommended test time from 24 hours).
- Product warranty period is 5 years (less than 8 hrs. / a day) after purchase. During this period faulty products can be sent back to us and replaced with new products.
- Products broken down on purpose and not defective products are not exchanged.


DC series

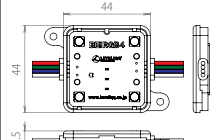
Please use 12VDC switching power supply.

	BEI-4W-DC12V	Color	Cool / Warm white
		LEDs per module	4
		Input voltage	12V DC
		Operating current	0.08A
		Power consumption	0.96W
		Dimensions	43.2mm (L) x 43.2mm (W) x 7mm (H)
		Weight	20g
		Luminous flux	88lm
		Color temperature	6500K / 2800K
		IP rating	IP68



		Package	50units (pitch180)
		Max. connections	50

	BEI-RGB4-DC12V	Color	Full color
		LEDs per module	4
		Input voltage	12V DC
		Operating current	0.08A
		Power consumption	0.96W
		Dimensions	44mm (L) x 44mm (W) x 7.5mm (H)
		Weight	22.5g
		Light intensity	20,000 mcd
		IP rating	IP68
		Package	50units (pitch155)



	BEI-3W-XL-DC12V	Color	Cool / Warm white
		LEDs per module	3
		Input voltage	12V DC
		Operating current	80mA
		Power consumption	0.96W
		Dimensions	64mm (L) x 17mm (W) x 8.7mm (H)
		Weight	12g
		Luminous flux	120 lm
		Color temperature	6500K / 3000K
		IP rating	IP67



		Package	50units (pitch200)
		Max. connections	50

	BEI-3W-XC-DC12V	Color	Cool / Warm white
		LEDs per module	3
		Input voltage	12V DC
		Operating current	60mA
		Power consumption	0.72W
		Dimensions	64mm (L) x 17mm (W) x 6.6mm (H)
		Weight	11g
		Luminous flux	60 lm
		Color temperature	6500K / 3000K
		IP rating	IP67




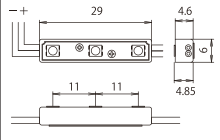
		Package	50units (pitch200)
		Max. connections	50

	BEI-2-W/R/G/B/WW-DC12V	Color	Cool / Warm white / Red / Green / Blue
		LEDs per module	2
		Input voltage	12V DC
		Operating current	0.04A
		Power consumption	0.48W
		Dimensions	63.2mm (L) x 13.2mm (W) x 7mm (H)
		Weight	9g
		Luminous flux	44lm (Cool white)
		Color temperature	6,500K
		IP rating	IP68



		Package	50units (pitch165)
		Max. connections	100

	BEI-MINI3-DC12V	Color	Cool white
		LEDs per module	3
		Input voltage	12V DC
		Operating current	0.02A
		Power consumption	0.24W
		Dimensions	29mm (L) x 6mm (W) x 4.85mm (H)
		Weight	3g
		Luminous flux	24lm
		Color temperature	6,500K
		IP rating	IP68



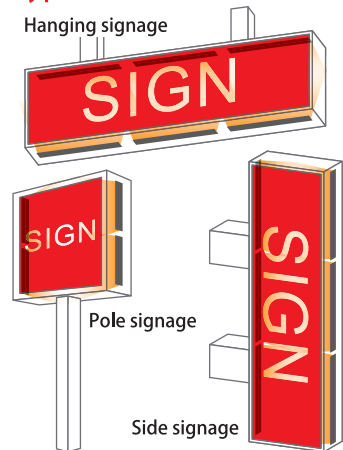
		Package	50units (pitch60)
		Max. connections	50

renDy Double Blade

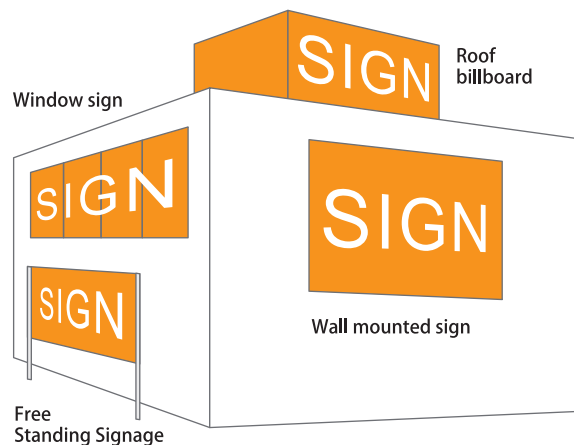
NEW SOLUTION FOR CUSTOM DESIGNED LED LIGHTING!!



Type1 Both sides illumination



Type2 Single side illumination



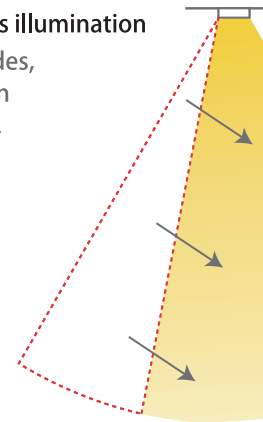
renDy Double Blade can provide custom designed LED illumination

With our innovative product “ renDy Double Blade ” you can customize LED lighting by choosing appropriate beam angle and LED spacing to control luminous intensity and light distribution. It is perfectly designed for smart construction, sustainable and economical lighting.



Type 1 Both sides illumination

By mounting on sides, both faces on a sign can be illuminated.



Type 2 Single side illumination

If you use a single side renDy, illumination can be effectively deflected to a sign face.



You can illuminate only one side.

LED Lens Type	Type 1 Both sides illumination	Type 2 Single side illumination
LEDS PER MODULE	1	
COLOR TEMPERATURE	6000K	
LED DRIVEN SYSTEM	CONSTANT CURRENT	
INPUT CURRENT	350mA / 700mA	
INPUT VOLTAGE	2.9V (350mA) / 3.0V (700mA) TYP	
POWER CONSUMPTION	1.0W (350mA) / 2.1W (700mA)	
OPERATING TEMPERATURE	-10℃ ~ +50℃	



Efficient extension of light by lens' effect High Luminosity Outdoor LED Flood Light "FROG"



Light
flux
6600
lm

Power
consumption
80%
Reduction

Water
- proof
IP68

LFL-01 Narrow angle type



LFL-01
Lighting angle:
10° approximately

Illumination
range:
W2m × H15m



Narrow angle type is applicable to banner because this lens extend lighting area further instead of narrow range.

LFL-02 Middle angle type



LFL-02
Lighting angle:
30° approximately

Illumination
range:
W3m × H7m



Middle angle type is very economical and effective model because this lens direct light at sign surface to minimize lighting loss.

ITEM	LFL-01 Narrow angle type	LFL-02 Middle angle type
	OUTDOOR	OUTDOOR
BEAM ANGLE	Approx. 10° <Lighting coverage: W2m × H15m>	Approx. 30° <Lighting coverage: W3m × H7m>
INPUT VOLTAGE	AC100V ~ 240V	
LUMINOUS FLUX	6600lm	
POWER CONSUMPTION	Approx. 63W	
WEIGHT	Approx. 2.5kg	

