

# **Radiar AF10**

Radiar AEIO is a BLE52 controllable, dual-channel 0-10V fixture controller. The device with a 120-277V AC input voltage range also provides 10A relay for the load control. 0-3.3V input channel in the device along with 12V auxiliary power output can be used to integrate third party sensors. The device can be controlled and monitored via a mobile device or a cloud platform.



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### 1. Features

- Dual channel C-10V independent output to control intensity and color temperature (CCT).
- Load control up to TOA (3:120/277VAC)
- Auxiliary12V/200mA putput power.
- C-3.3V input channel to integrate with third party sensors.
- BLE52 based non-flooding intelligent mesh.
- Standard 19 inch Knockout a lowsleasy mounting to a junction box or compatible fixture.
- Zero downtime Over-the-Air (OTA) firmware updates
- ReHS compliant

# 2. Specifications

Electrical	Sympol	Min	typ.	Miss.	Unit	Boreacky,
Input Voltage	Vin	20		217	Vac	
Input Frequency	F	50	-	80	1 7	
Input Current	lin			э	A	
Loae Voltego		20		217	Vac	
Lone Current				о	A	
Buigo rank ont Protoction					kV	
Aux Veitage	VAJX		"		V	
Aux Current	I A.IX		200		MΑ	

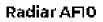


Analog Dimming Output	M'u.	тур.	Mire.	Unit	Fernark (
Direneing Output	0		с	V	Mine duting tolorances (P%
Dimming Output2	0		0	V	Micolator: Colorandos (1%
Output durrent.			0	mA	Sinking ouront per channel
Direneing Ronge	0		90	N	
Dimming Resolution		7		bit	100 atom
Cut Off Voltege		Ö		V	Frogrammeldo
Direnting Curve		linew/ e			

Sensor Interface	M'n.	тур.	Mirk.	Jrit	Bernarka
Sensor result	o		.3.5	V	
current				MA	

Bluetooth	M'n.	Тур.	Mirk.	Jrit	Fernark (
Frequency Pange	2402	2402	2480	ML z	
TX Power	8	7	ii	dBre	Conductive
IX coursent			49	mА	Total ouroni@: Max Tepowor
Rx Current			37	mΑ	Total Curren - ଡ୍ରିନିକ Mode
Receiver Sonaitivity	-75		-116	oBre	

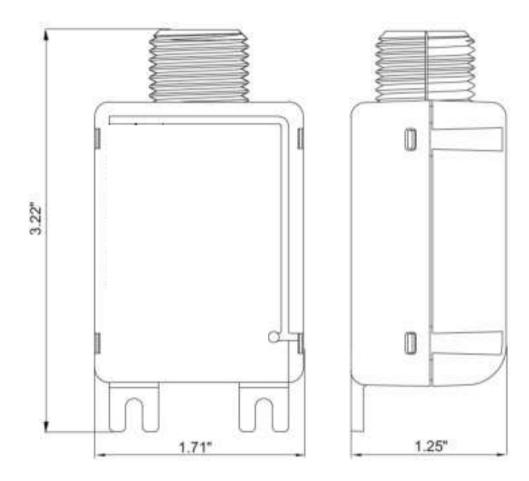
Environmental	Symbol	Min	Тур.	Mirk.	Jrit	Benark)
Coercting temperature	t.,	073		55	n <u>c</u>	
Rolativo Fium dity		5		Q5		Non-concerning





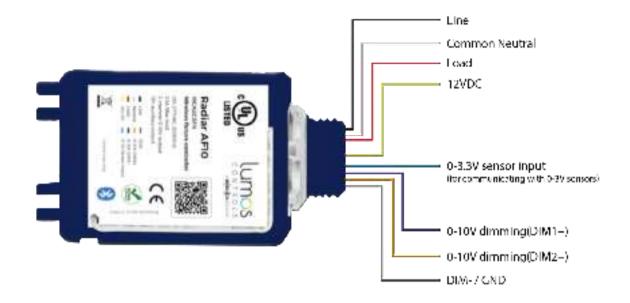
Mechanical	тур.	Jrit	ficenarka
Directs ons	8 79×4646×16176	ויוויו	I x W x I
Directs ons	3.22 x 191 x 125	inch	I x W x I

# 3. Device Dimensions





# 4. Wire Description

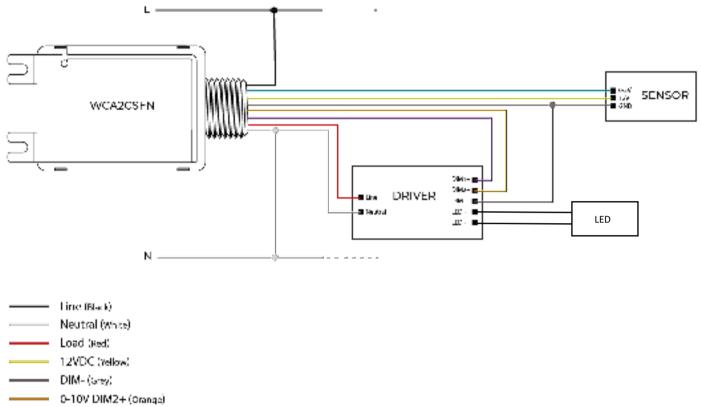


SL NO	NAMT	colon	GAUOF	BATING	DISCRIPTION
	Input line	Olack	8 AWC	800V	20-27 VMAC
>	Noutral	white:	8 AWC	600V	Common Neutra
	Load inc	Red	8 AWC	600V	0A/ 20-27 AAC
4	оном эм	P.n.ska	72 AWC	.2007	0- OV output for intervity
3	сном эмэ	Oranga	72 AWC	.2007	0- OV cut sut for CC
6	2700	Me low	72 AWC	.2007	2Vioti sux ling output
''	D M-	Ску	72 AWC	.3007	Common ground
	O-suf-Visionson input	fflua	22 AWC	.2007	O-stavlin out for sonosi



# 5. Wiring Diagram

Configuring Red in AF O fourd remaining, tuning and an external some constral.



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## 6. Certification





### 7. Warning

- To prevent the device from any defect, please handle and store it with care.
- Do not propior give shock.
- Do not store in very hum o location or at extreme temperature.

CE

- Do not open or disassemble the product.
- Static electricity or surge voltage may damage the components inside device, as such please observe proper anti-electrostatic working process.
- People tranding the device should be well grounded (e.g. using ESD wrist band) and wear antistatic working clothes and gioves.
- All related devices and instruments in the production, ine should be well grounded (e.g. working, table, measuring equipment).
- 3. Observe the correct polarity of output terminal
- Avoid input voltage exceeds the maximum rating, which will cause damage to the circuit and result in malfunction.
- 5. Do not block any ventilation openings, install in accordance with the manufacturer's instructions,
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus, (including amplifiers) that produce neat.
- Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply core or olug is damaged, I duid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to or pping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.

### 8. Ordering Information

Product Code	Product Name	Communication	Voltage Rating	Sensor Input	Output Channel	Aux Power	Relay Control
WCA2CSFN	Whe ass 0 IOV dual channel dimening 4C bewered foture cantroller	dLax2	120 277V A/C	C ABV CC	C IOV 2 Channels	129 CC	15A





#### FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

•Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **RF Exposure Information**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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Version C