

INSTALLATION INSTRUCTION

In-Ground Color Changing

5031-CCBBR

WAC LIGHTING
Responsible Lighting®

SAFETY INSTRUCTION

IMPORTANT: NEVER attempt any work without shutting off the electricity.

- Read all instructions before installing.
- System is intended for installation by a qualified electrician in accordance with the National Electrical Code and local regulations.
- Place the wall switch in the "OFF" position.
- Go to the main fuse box, or circuit breaker. Unscrew the fuse(s) or switch "OFF" the circuit breaker switch(es) that control the power to the space that you are working on.

CAUTION:

All parts must be used as indicated in these instructions. Do not substitute any parts, leave parts out, or use any parts that are worn out or broken. Failure to follow this instruction could invalidate the ETL/cETL listing of this fixture.

AVERTISSEMENT

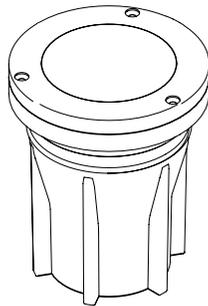
IMPORTANT : COUPEZ L'ÉLECTRICITÉ AVANT TOUTE MANIPULATION.

- Lisez toutes les instructions avant d'installer.
- Système est destiné à être installé par un électricien qualifié en conformité avec le code national de l'électricité et les règlements locaux.
- Placez l'interrupteur mural en position d'arrêt (« OFF »).
- Accédez au panneau central de disjoncteurs ou de fusibles de votre demeure et placez l'interrupteur principal en position d'arrêt (« OFF »).

MISE EN GARDE

Toutes les pièces doivent être utilisées tel qu'il est indiqué dans ces instructions. Ne remplacez pas les pièces, n'en laissez pas de côté et ne les utilisez pas si elles sont usées ou brisées. Le non-respect de ces instructions peut annuler l'homologation ETL/cETL du luminaire.

THIS INSTRUCTIONS APPLY TO THE MODELS BELOW:



5031-CCBBR

Fixture Accessory (included in box)



Outdoor Rated Wire Nut
For Model: 5031-CCBBR
Qty: 2pcs

waclighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

INSTALLATION INSTRUCTION

In-Ground Color Changing

5031-CCBBR

WAC LIGHTING
Responsible Lighting®

CONCRETE POUR INSTALLATION

1. Turn the main power off.
2. Install wiring and conduit (use 1/2" NPT) with Concrete Pour Canister at desired position, plug all un-used holes (Fig. 1) Secure the canister to the bottom of the application ground by using screws.

Note: For proper alignment, make sure the flat edge of the canister is parallel to the wall. (Fig. 2)

3. Insert Plastic Cap into Concrete Pour Canister (Fig. 1)
4. Pour concrete until it's flushed with the Plastic Cap. (Fig. 3)

Note: NO CONCRETE ENTERS THE BOX. USE SAND OR GRAVEL FOR PROPER DRAINAGE.

5. After concrete has cured, crack concrete and remove Plastic Cap using a corkscrew or similar tool. (Fig. 4)
6. Connect fixture leads to box wiring using supplied outdoor rated wire nuts. Make sure all power is off while wiring LED fixture.
7. Apply a smear of plumber's silicone to O-rings. Insert LED fixture into flange with a twisting motion. Make sure the trim is flushed with the top of the poured concrete.
8. To match different height requirements, use extenders and cover plates. (Fig. 5)

Fig.1

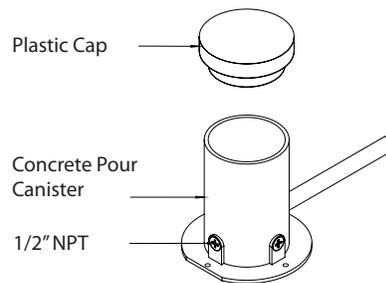


Fig.2

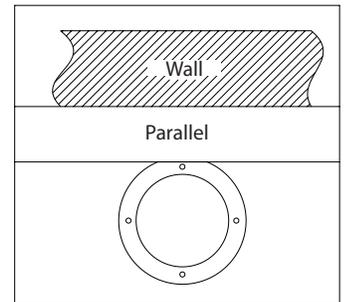


Fig.3

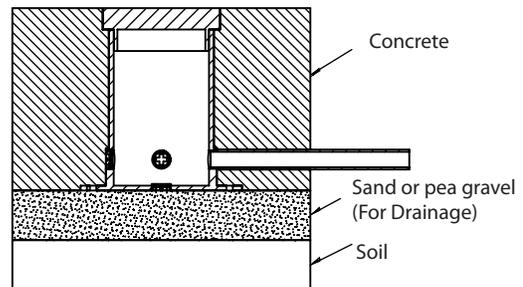


Fig.4

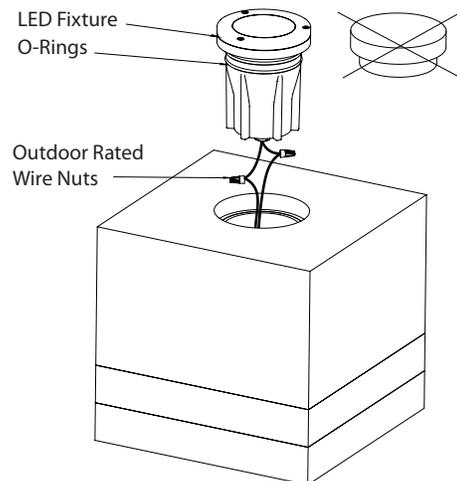
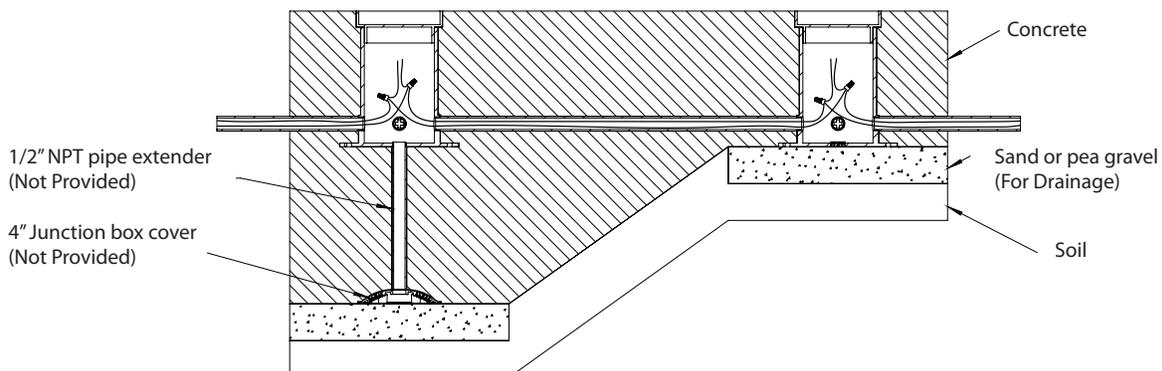


Fig.5



waclighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

INSTALLATION INSTRUCTION

In-Ground Color Changing

5031-CCBRR

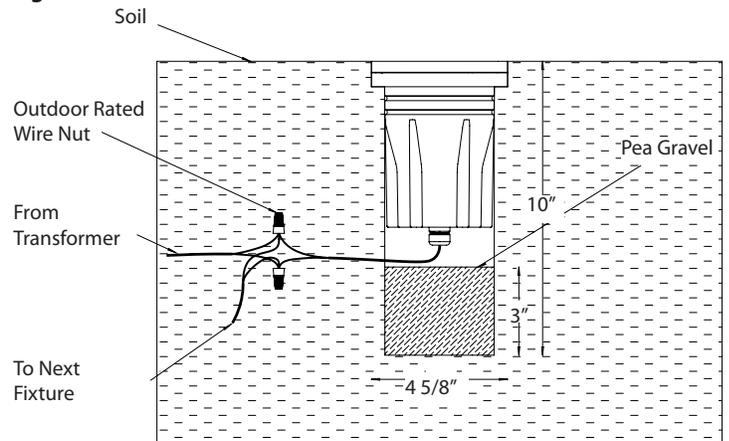
WAC LIGHTING

Responsible Lighting®

SOFTSCAPE INSTALLATION

1. Turn the main power off.
2. Dig a hole at the point of application. Make sure the hole measures at least 4-5/8 inches in diameter and 10 inches in depth. (Fig.6)
3. Place a layer of pea gravel (3 inches) at the base of the hole to help with drainage.
4. Connect the fixture wires to landscape wires coming from the transformer using the outdoor rated direct burial wire nuts provided.
5. Place the fixture in the hole and repack the soil to hold it in place. Make sure the trim is flush with the ground.

Fig.6



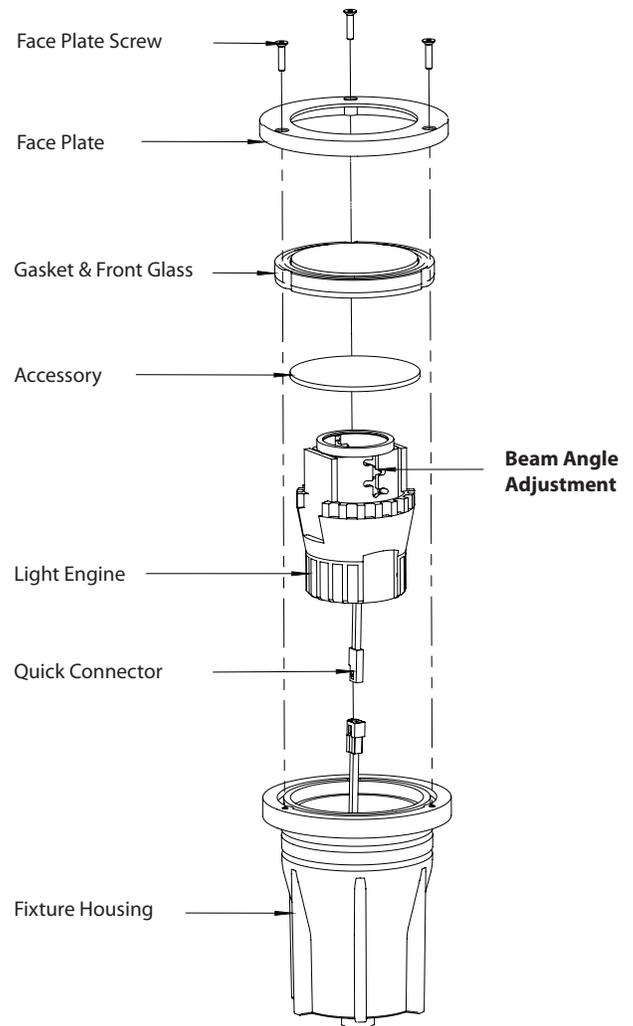
CUSTOMIZE SETTING

This fixture is equipped with three customizable settings: Dimming Adjustment, Beam Angle Adjustment, and Beam Aiming Adjustment. It can be pre-set into desired settings by taking the light engine assembly out from the fixture housing. (Fig. 7)

1. Unscrew Face Plate Screws with hex L-key.
2. Take out the Face Plate, Gasket, Front Glass and accessory lens (if any).
3. Pull the Light Engine out of the Fixture housing.

Note: Light Engine can be taken out remotely by disconnecting the Quick Connector. Users can later reconnect it back into the housing after all desired settings are been made.

Fig.7



wacighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

INSTALLATION INSTRUCTION

In-Ground Color Changing

5031-CCBBR

WAC LIGHTING

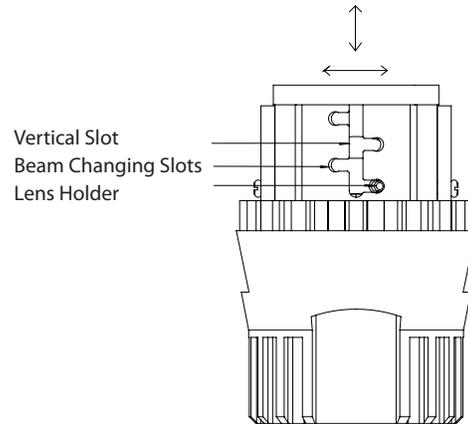
Responsible Lighting®

BEAM ANGLE ADJUSTMENT:

1. Twist the Lens Holder to the middle vertical slot.
2. Move the Lens Holder Up/Down to any Beam Changing Slots for desired beam angle.
3. Twist the Lens Holder into the desired Beam Angle Changing Slot.

Note: Beam angle is pre-set to be 60°, 45°, 30°, and 15° from bottom up.

Fig.8



wacighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

INSTALLATION INSTRUCTION

In-Ground Color Changing

5031-CCBBR

WAC LIGHTING
Responsible Lighting®

ACCESSORIES:

- *Rock Guard* – Protects fixture front glass from large falling objects.

To Install (Fig. 11):

1. Unscrew the Face Plate Mounting Screws.
2. Put the Rock Guard on top of the fixture face plate, make sure to match up the mounting index arrow on the fixture and rock guard.
3. Use the same Face Plate Mounting Screws to mount the Rock Guard onto the fixture.

- *Color Lens* – Comes in red, blue, green and amber lenses change the light color of the fixture. (Fig. 12)

- *Hex Louver* – Uses to reduce the glare of the fixture and control peripheral light.

Note: Both Color Lens & Hex Louver are installed in the same place.

To Install (Fig. 12):

1. Unscrew the Face Plate Mounting Screws.
2. Take out the Face Plate, Gasket & Front Glass.
3. Drop the Color Lens/Hex Louver into the fixture housing.
4. Put everything from Step 2 back to the fixture housing and tighten the screws.

- *Concrete Pour Canister & Cap* – used to install fixture in concrete pour applications.

To install (Fig. 13):

Please visit the previous Concrete Pour Installation instructions.

Fig.11

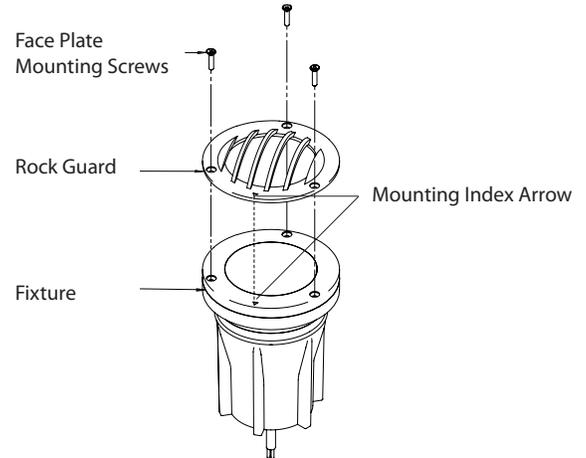


Fig.12

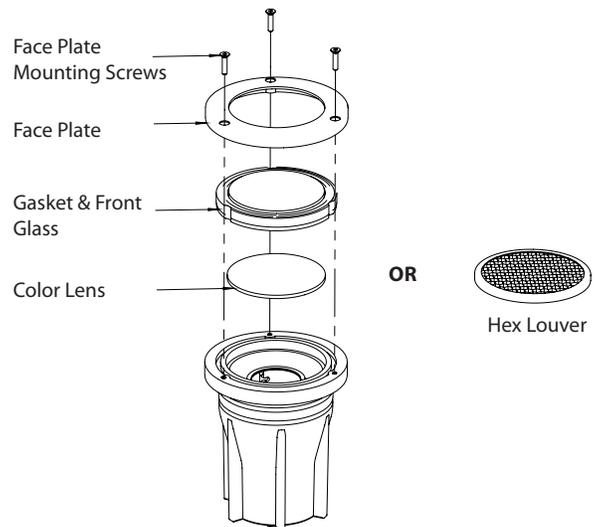
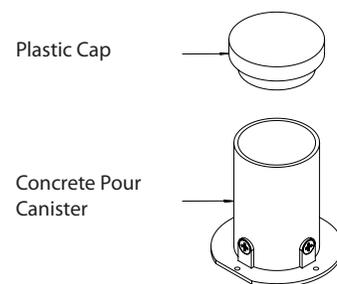


Fig.13



INSTALLATION INSTRUCTION
In-Ground Color Changing

5031-CCBBR

WAC LIGHTING
 Responsible Lighting®

WORKSHEET:

When using a magnetic transformer, the VA total sum of all the fixture settings should not exceed the rated transformer capacity.

*Refer to the product yellow tag for more information on power settings

Fixture	Description	Halogen Equivalent	Fixture "W" setting	Comparing VA
<i>Example</i>	<i>5031 fixture</i>	<i>25W MR16</i>	<i>4W</i>	<i>4.9VA</i>
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				
K				

Total:
(sum of VA)

Minimum magnetic
transformer size:

waclighting.com
 Phone (800) 526.2588
 Fax (800) 526.2585

Headquarters/Eastern Distribution Center
 44 Harbor Park Drive
 Port Washington, NY 11050

Central Distribution Center
 1600 Distribution Ct
 Lithia Springs, GA 30122

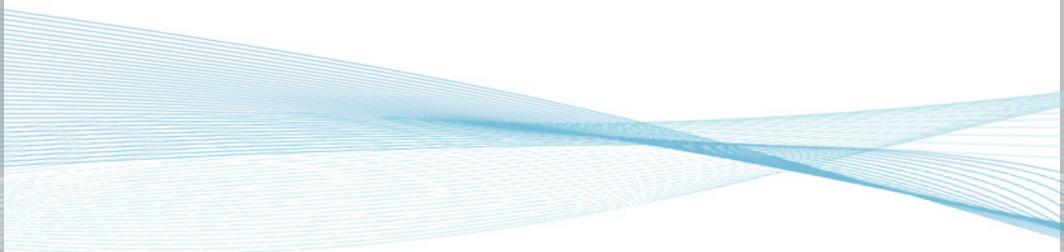
Western Distribution Center
 1750 Archibald Avenue
 Ontario, CA 91760

SETUP INSTRUCTION

ilumenight Color Changing Instruction Manual v. 1.0

Written with Tunable Color v. 4.1.3

System Requirements: iOS 8.4+



WAC

LANDSCAPE LIGHTING

WAC LIGHTING

Responsible Lighting®

Accent 12V Color Changing

Color and brightness controlled with
Ilumenight™ mobile app



Input	9-15VAC
Power	0.5W to 14.5W / 1VA to 17VA
Brightness	Up to 355 lm
Beam Angle	15° to 60°
CRI	95+
Rated Life	45,000 hours

Adjustable beam angle

5011-CCBBR | Bronze on Brass
5011-CCBZ | Bronze on Aluminum

Wall Wash 12V Color Changing

Color and brightness controlled with
Ilumenight™ mobile app

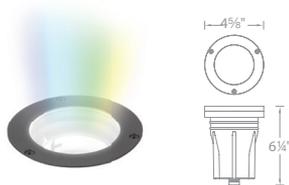


Input	9-15VAC
Power	0.5W to 14.5W / 1VA to 17VA
Brightness	Up to 430 lm
Beam Angle	15° upward (50° by 80°)
CRI	95+
Rated Life	45,000 hours

5021-CCBBR | Bronze on Brass

3" Inground 12V Color Changing

Color and brightness controlled with
Ilumenight™ mobile app



Input	9-15VAC
Power	0.5W to 14.5W / 1VA to 17VA
Brightness	Up to 250 lm
Beam Angle	15° to 60°
CRI	95+
Rated Life	45,000 hours

Adjustable beam angle

5031-CCBBR | Bronze on Brass

WAC LIGHTING

Responsible Lighting®

TABLE OF CONTENTS

1. Overview	2
2. Getting Started	3
2.1 Create Account	
2.2 Login with an Account	
2.3 'Do This Later' (Login without an Account)	
3. Main Screen	5
4. Commissioning Screen	6
4.1 Commissioning Controls	
4.2 SceneSet®	
5. Options Menu	9
5.1 Add New Group	
5.2 Discovery Distance	
5.3 Logout	
5.4 Change Password	
5.5 Reset Lights Password	
5.6 Reset Application	
5.7 About This App	
5.8 Support	
5.9 Legal	
5.10 Console	

1. OVERVIEW

The WAC ilumenight Color changing iOS app enables control of Bluetooth-equipped araya modules incorporated into a lighting fixture. The app is designed for use by professional lighting specifiers and designers.

System Requirements: iOS 8.4+

Type “ilumenight” in the Search window in the App Store screen to view and download the app on your iOS device.



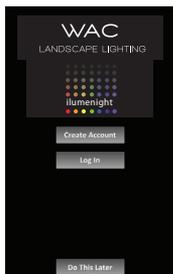
After downloading and launching, the user can create an account that enables the lamps to be secured such that others cannot control them unless they use the same password. Upon discovery, the lamps and modules (including the Digital Control Adapter) can be named, and if desired, assigned to a group.

The app enables the user to set the Correlated Color Temperature (CCT), Dimming, Saturation and Hue for each lamp/group. SceneSet® enables up to five scenes — a scene is any combination of CCT, Dimming, Saturation and Hue — to be programmed into the lamp for recall by the app or a 0-10V connection.

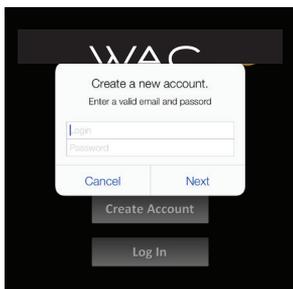
For lamps connected to a 0-10V line, SceneSet® Mode can also be specified in the app

2. GETTING STARTED

Make sure that the lighting fixture is turned on.



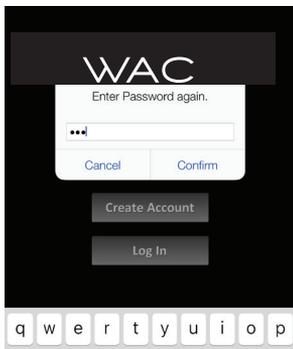
Download the latest version of the WAC ilumenight color changing app from the App Store and launch the app (version 4.1.3 as of this writing).



Create a new account name and password to secure and control any Bluetooth-equipped unlocked lamps that are “discovered” by the app with a green  icon.

Lamps with a magenta  icon cannot be controlled (see Main Screen section for further details).

- Enter a desired user name (email address) and password. Click on the “Next” button.

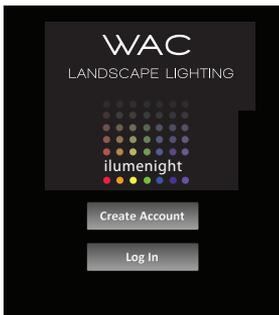
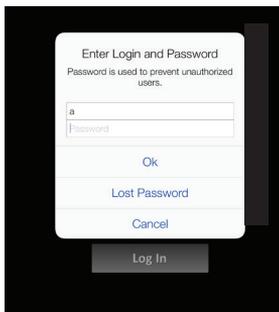


- Confirm your password by entering it again. Click on the ‘Confirm’ button.

NOTE: The password you create will be assigned to any unlocked lamps and automatically lock them.

2. GETTING STARTED

Make sure that the lighting fixture is turned on.



2.2 Login with an Account

If you have already created an account, you can log in by entering your email address and your password and then pressing “OK”. When you log in with your password, you will be able to control any lamps that you have previously secured with this password, as well as control any unlocked lamps (with a green  icon).

Lamps with a magenta  icon indicate that the same user name was used earlier to secure these lamps, but the password was different. You will not be able to control these lamps since they were previously locked using a different password (see Main Screen section for further details).

NOTE: The password you use for logging in will be assigned to any unlocked lamps and automatically lock them.

2.3 ‘Do This Later’ (Login without an Account)

Using this option, you will bypass the Create Account and Log In steps. It allows you to access unlocked lamps (with a green  icon) as well as discover — but NOT control — the values of locked lamps (with a red  icon).

NOTE: When you log in without an account, you cannot lock the lamps to prevent access by others, and some buttons on the Options menu are not available (“grayed out”) to prevent unauthorized use.

After completing one of these three startup options, the app scans the network to discover lamps.

3. MAIN SCREEN

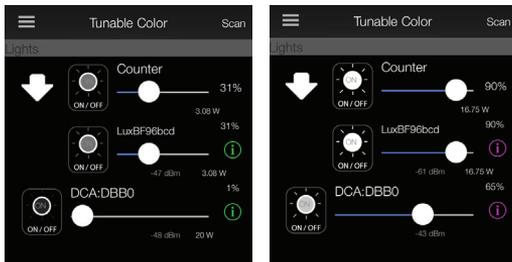
The main screen lists all discovered lamps and shows a default group name (see Commissioning Screen section on how to rename the lamp and/or group).

In the main screen, the lamps can be turned on and off by tapping the on/off icon on the left of the slider. The lamps can also be dimmed by moving the slider right or left, or by tapping to the right or left of the slider. The dimming level as a percentage of light output is shown to the right of the slider. The signal strength of the Bluetooth connection is shown below the slider. On lamps that support power consumption, the consumed wattage is also shown below the slider.

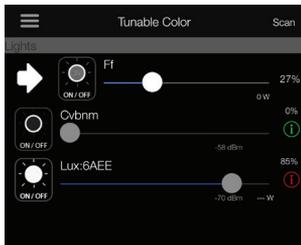
To the right of the slider, there is one of three icons: green, red, or magenta.

- If  is green, the lamp is unlocked and can be commissioned.
- If  is red, you are not logged in (“Do This Later” option), the lamp is locked (secured by someone else), and it cannot be controlled.
- If  is magenta, the lamp is assigned to the user name, but under a different password. This lamp cannot be controlled unless the password that was previously used to secure the lamp is entered.

An arrow to the left of the on/off icon indicates whether a lamp is assigned to a group



By default, the arrow points downward, and the sliders for lamp(s) that belong to that group will be displayed to allow for individual control of each lamp (if  is green).



Clicking on the arrow will change its orientation to the right, and will hide the list of lamps belonging to that group.

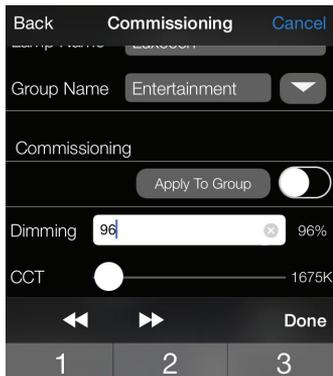
NOTE: Any changes made to the group dimming slider or the on/off button will apply to all of the lamps in that group.

To commission the lamp, tap on the green  to launch the Commissioning Screen.

4. COMMISSIONING SCREEN

4.1 Commissioning Controls

The lamp can be commissioned by dragging the sliders left or right, tapping on either side of the slider circle to move at preset values, or pressing and holding along the slider for one second to bring up a numerical keypad for direct entry of the value. When using the direct entry option, you can also use the two arrows located on the top left of the numerical keypad; tap on either arrow to automatically increase or decrease the value.

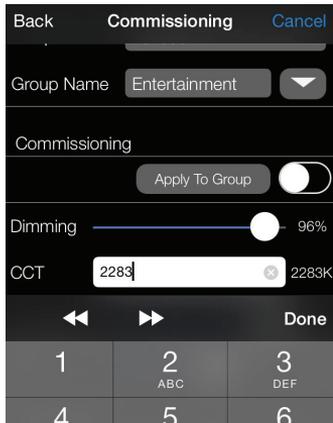


4.1.1 Dimming

The lamp (or the group) can be dimmed from 100–1%, in increments of 1%. The dimming value is shown at the far left.

Tapping on either side of the slider moves the lamp in 10% increments.

Pressing and holding along the slider will bring up a keypad for direct entry of the dimming percentage. Enter the percentage and then touch “Done”.



4.1.2 CCT

The CCT can be changed in increments of 25K.

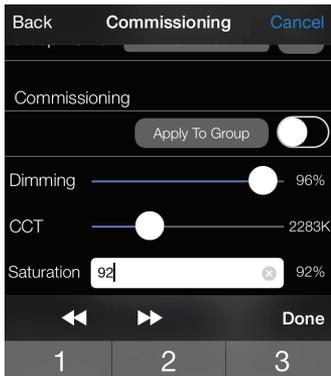
The CCT range of the lamp (1650 – 4000K or 2700 – 6000K) is detected automatically.

Tapping on either side of the slider moves the lamp in 25K increments.

Pressing and holding along the slider will bring up a keypad for direct entry of the CCT. Enter the CCT and then touch “Done”.

NOTE: Only lamps of the same CCT range can be grouped together.

4. COMMISSIONING SCREEN

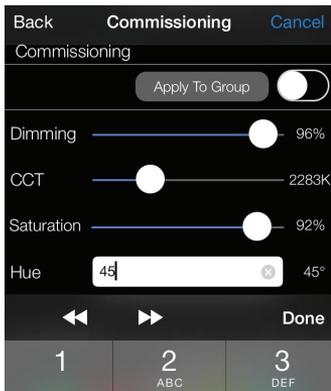


4.1.3 Saturation

Saturation adds gradients of color to a white point. Saturation can be added in increments of 1%, from 0 - 100% (fully saturated).

Tapping on either side of the slider moves the lamp in 10% increments.

Pressing and holding along the slider will bring up a keypad for direct entry of the saturation percentage. Enter the percentage and then touch "Done".



4.1.4 Hue

Hue enables different colors to be added to the light in values from 1 to 60.

Tapping on either side of the slider moves the lamp in 6° increments.

Pressing and holding along the slider will bring up a keypad for direct entry of the hue value. Enter the value and then touch "Done".

4.1.5 'Apply to Group' Button

If more than one lamp is assigned to a group, the Apply to Group button is displayed. Tapping on this button will apply the current commissioning choices (made to a single lamp) to all of the lamps in the same group.

If this switch is toggled to the "on" position, any changes made to the lamp will always be applied to the entire group in real time.

4. COMMISSIONING SCREEN

4.2 SceneSet®

Allows up to five scenes to be programmed into the lamp and recalled by simply tapping one of the five SceneSet buttons.

To activate SceneSet, tap on any one of the SceneSet rectangles (labeled “1”, “2”, “3”, “4” or “5”). Commission the lamp as previously described. To save scenes, press and hold one of the SceneSet buttons until either a beep is heard (iPod and iPad) or the device vibrates. The SceneSet button will then display the dominant color of the scene as a visual cue.

TIP: If the device does not vibrate or make a sound, check to ensure that sounds and vibration are enabled.



NOTE: This program allows up to 8 fixtures to be connected as a group.

4.2.1 'Apply to Group' Button

If more than one lamp is assigned to a group, the Apply to Group button is displayed. Tapping on this button will apply the current SceneSet color (saved to a single lamp) to all of the lamps in the same group.

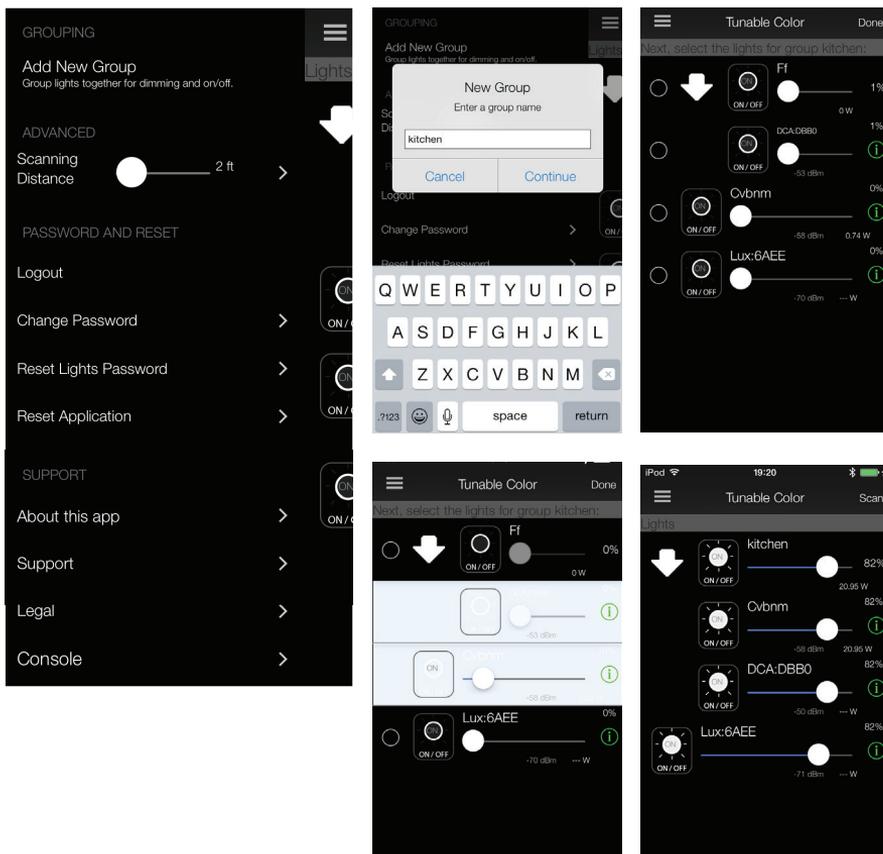
4.2.2 'Copy/Paste Sceneset' Buttons

The “Copy SceneSet” button will copy all of the 5 current SceneSet color scenes, and display them in the smaller rectangles shown. You can then paste these 5 scenes to the SceneSet settings of another lamp (either in the same group or in another group) by choosing that lamp from the Main Screen and clicking on the “Paste SceneSet” button.

4.2.3 0 - 10V Control Option

When the lamp is connected to a 0-10V line, the default is control of Correlated Color Temperature (CCT). If desired, the 0-10V line can be set to control SceneSet by sliding the SceneSet Mode button to the “on” position. In this mode, the 0-10V control will toggle the light between up to 5 preset scenes.

5. OPTIONS MENU (UPPER RIGHT OF COMMISSIONING SCREEN)



5.1 Add New Group (only active when logged in)

New groups can be created and named here first, and then the lamp(s) belonging to each new group can be chosen directly on the Main Screen.

This process makes it easier to group many lamps at a time.

5. OPTIONS MENU (UPPER RIGHT OF COMMISSIONING SCREEN)

5.2 Discovery Distance

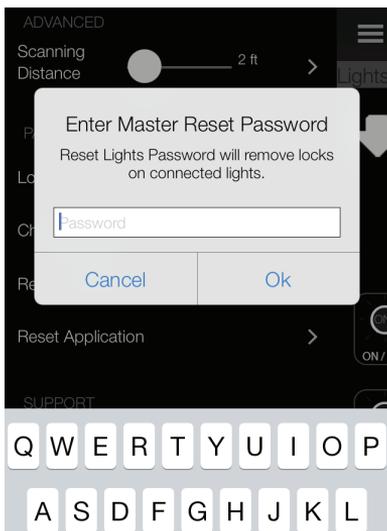
This changes the discovery distance. When commissioning multiple lamps, reducing the discovery distance enables connection to the closest lamp.

5.3 Logout

Logs out of the current account.

5.4 Change Password (only active when logged in)

Changing the password will change the current account password. This will secure the lamps that have been commissioned using the original password, and the ⓘ icon for those lamps on the Main Screen will turn magenta.



5.5 Reset Lights Password (only active when logged in)

This command will clear the password that was set for each lamp currently displaying in the app. It will ask the user for a Master Password (different from the login password) to perform this operation. This Master Password can be obtained by contacting your WAC LIGHTING sales representative.

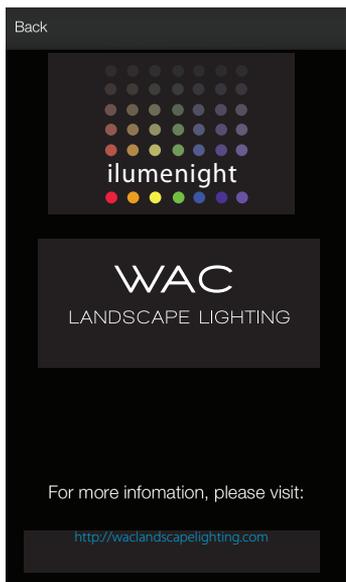
NOTE: Internet access is required to perform this action.

5.6 Reset Application

Used mainly for debugging purposes, this operation will delete the account and password, remove the control on the lamps and perform a refresh.

NOTE: Internet access is required to perform this action.

5. OPTIONS MENU (UPPER RIGHT OF COMMISSIONING SCREEN)



5.7 About This App

Provides information about the release and build number of the app. If you tap on the website link provided, the app will exit and take you to a web browser pointing to the WAC LIGHTING website.

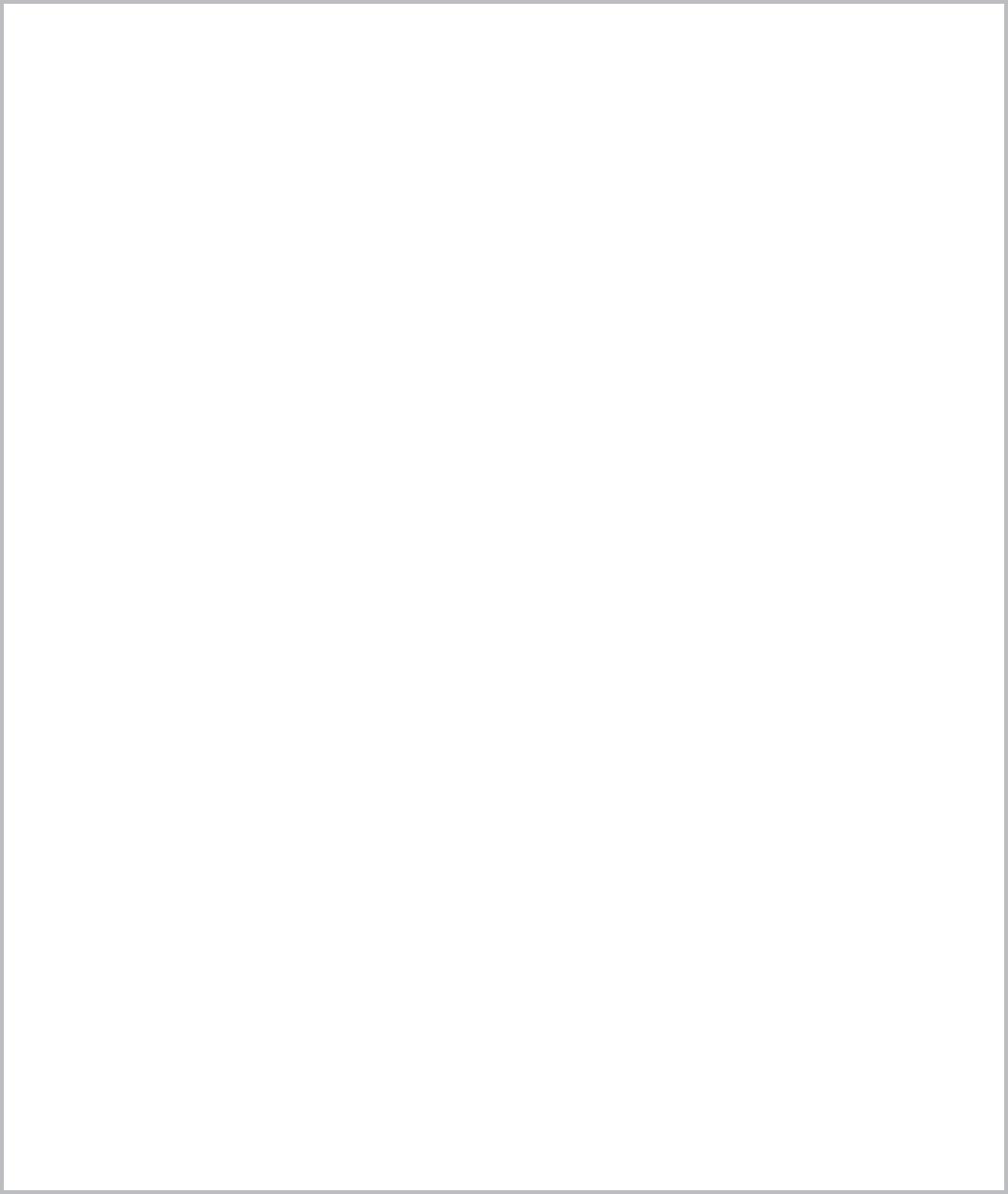
5.8 Support

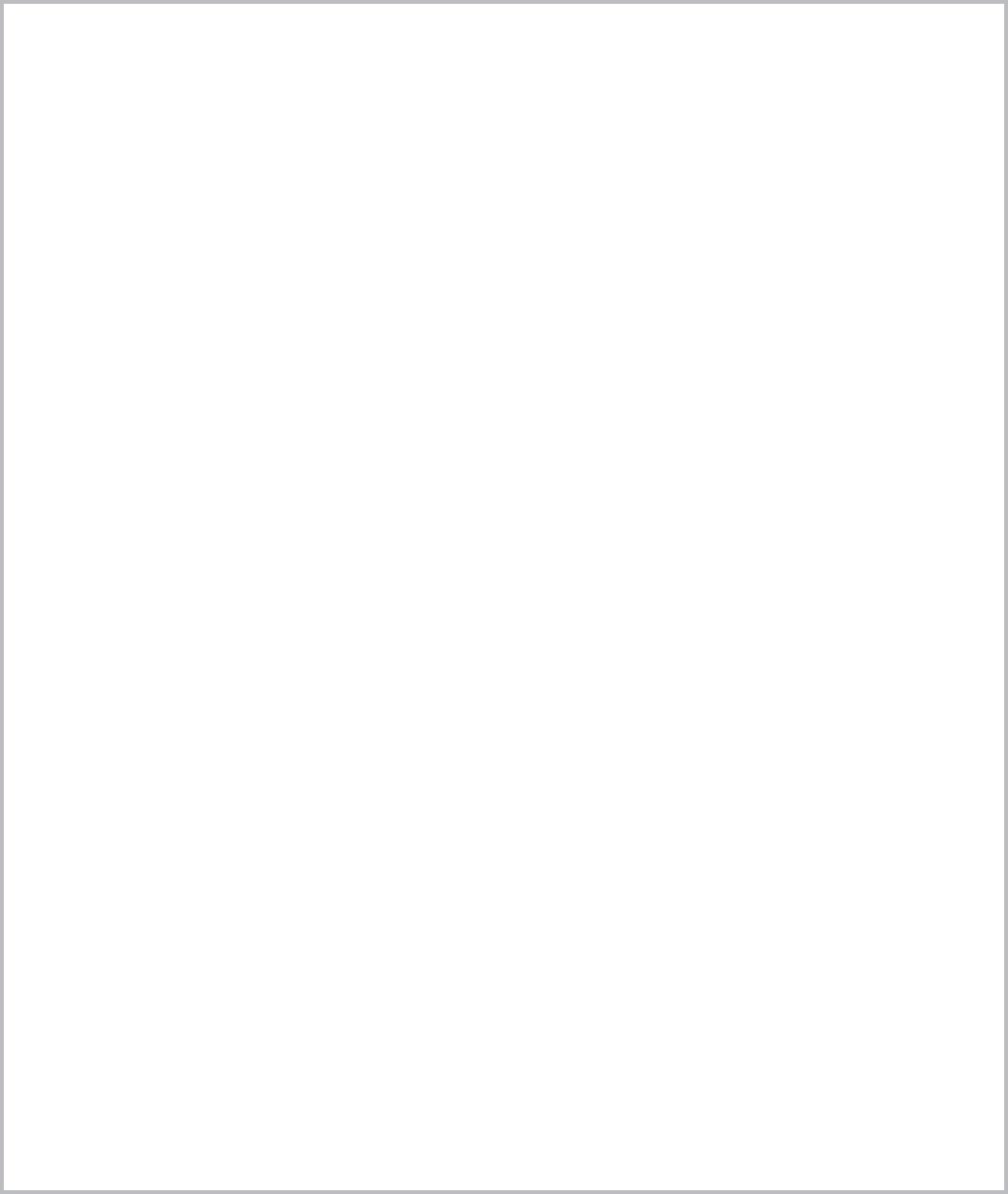
Please call our technical support team at 800.526.2588

5.9 Legal

Provides necessary and important legal information about the nature and use of the app.

For PDF version of this instruction manual, please visit waandscapelighting.com







WAC
LANDSCAPE LIGHTING

www.waclandscapelighting.com

Specifications subject to change without notice