



Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	N/A	Watts	10W
120V	N/A	Color Temp	Tunable White 2200K - 6500K
208V	N/A	Color Accuracy	90 CRI
240V	N/A	L70 Lifespan	25,000 Hours
277V	N/A	Lumens	800 lm
Input Watts	10W	Efficacy	80

Technical Specifications

Performance

Product Type:

SmartShift Starter Kit

Description :

No Gateway or Hub required. These lamps can be wirelessly controlled via the mobile app for On/Off, Dimming, Color Temperature, Scenes, Schedules and SmartShift. Connect to Amazon Alexa or Google home for voice control and remote access.

Wattage Equivalency:

60W Incandescent

Input Wattage:

10W

Lumens (Nominal):

800lm

Lightcloud

Lightcloud Blue:

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control RAB's various compatible devices. With RAB's patent-pending Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app. Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

DLC system - N1XMLOEATBA

[Learn more at www.lightcloud.com](http://www.lightcloud.com)

Gateway Required:

No

Communication Protocol:

Bluetooth Mesh

SmartShift:

SmartShift is the most advanced - yet easiest to use - circadian lighting system, which syncs white color tuning with the local sunrise and sunset.

Range:

Lightcloud: Lightcloud: Up to 100 feet between standard building materials; Up to 1,000 feet clear line of sight.

Lightcloud Blue: Lightcloud Blue: Up to 60 feet between standard building materials; Up to 200 feet clear line of sight.

Spacing Criteria:

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network.

Max # of Devices to Control:

The Nano can manage a maximum of up to 600 Lightcloud Blue devices or up to 16 Areas. Maximum of 1 Nano per Site.

Technical Specifications (continued)

Factory Reset:

Method 1: Delete from App (A19 lamps & Nano)
Open the app and access the device settings for the paired device. Be sure that the device is online and select 'Delete'. The device will flash on/off 5 times and return to full brightness.

Method 2a: Manual (Nano only)

Press and hold the center button on the Nano for 10 seconds. A flashing red light will appear to indicate the Nano has been reset and then revert to a flashing blue light indicating the Nano is ready to pair to the App.

Method 2b: Manual (A19 lamps only)

Power the lamp off and on 5+ times consecutively. Do not allow less than 1 second and no more than 3 seconds to elapse between switching. The lamp will flash 3x, then reset to 100% brightness at default CCT.

Method 3: Rapid Reset Tool (A19 lamps only)

The Rapid Reset process must be done by professional electricians qualified by RAB. Reach out to your RAB sales manager to request a Rapid Reset Tool. The tool simply needs to be placed directly on the base of the lamp near the black Lightcloud Blue logo for 2 seconds or until the lamp begins to flash 3 times, then it will reset to 100% brightness at default CCT.

Button Controls:

Available once Nano has been provisioned.
Press the button 1x and release to turn all lights On/Off within the Site.
Press the button 2x and release to change the color temperature of all color tuning lighting within the Site.

Status Indicator:

The button on the Nano includes an indicator light which displays various colors depending on the current status.
Solid Blue - Nano is paired to the Lightcloud Blue app
Flashing Blue - Nano is ready to be paired to the Lightcloud Blue app
Solid Green - Nano has successfully established a Wi-Fi connection
Flashing Red - Nano has been restored to default factory settings
Flashing Yellow - Nano is searching for a Wi-Fi network to connect to

Voice Control:

Available once Nano has been provisioned and connected to a 2.4 GHz Wi-Fi network. Link to Amazon Alexa or Google Home.

Remote Access:

Available once Nano has been provisioned and connected to a 2.4 GHz Wi-Fi network. Link to Amazon Alexa or Google Home.

Electrical

Power Factor:

≥0.9

Dimmable:

Yes, via the Lightcloud Blue mobile app and devices. These lamps will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Input Voltage:

120V

Operating Frequency:

60 Hz

Input Current @ 120V (mA):

90mA

Operating Temperature:

-4°F to 104°F (-20°C to 40°C)

Flicker:

≤5%

Optical

Beam Angle:

230°

LED Characteristics

Color Temperature:

Tunable White via Lightcloud Blue mobile app
2700K - 6500K

Color Accuracy (CRI):

>95 CRI

Natural Spectrum:

Low blue LEDs deliver a spectrum of light similar to that of natural Sunlight. They beautifully render colors with greater than 95+ CRI and an R9 value greater than 90. In addition, these LEDs don't suppress melatonin creation which aids in promoting better sleep/wake cycles.

R9 Value:

High color performance with R9 greater than 90

Color Consistency:

4-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Installation

Mounting:

The Nano can plug into any compatible USB-A power source and must have constant power to operate as intended.

Construction

Base Type:

E26 Edison (A19); USB-A (Nano)

Finish:

White

Bulb Shape:

A19

Enclosure Material:

Plastic

Lens Finish:

Frosted

Compliance

Listings:

UL Listed

Environment:

Suitable for use in dry and damp* environments.
*A19 lamps only

Enclosed Fixtures:

Suitable for use in enclosed fixtures

Energy Star Approved:

This product is ENERGY STAR® Version 2.2 Certified.

Energy Star ID:

2397939

Model Number for Certification:

LCBA19-10-E26-9TW-SS-NS (A19 lamp)
SMARTSHIFT ORBIT (Nano)

T20 Compliant:

Can be used to conform with the requirements of California Title 20

California Title 24 JA8 Compliant:

Can be used to conform with the requirements of California Title 24 Part 6

Technical Specifications (continued)

California Energy Commission (CEC) Status:

Lawful for Sales in California

RoHS:

Mercury and UV free. RoHS-compliant components.

FCC:

Complies with Part 15 of the FCC Rules

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

Other

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of three (3) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Note:

All values are typical (tolerance +/- 10%)

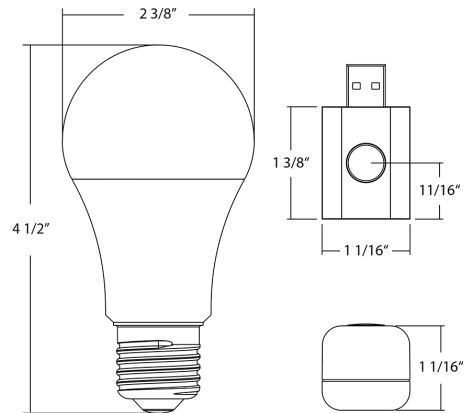
Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Case and Pallet Dimensions

	QTY	LENGTH (in)	WIDTH (in)	HEIGHT (in)
CASE	12	12.83	6.22	5.28
PALLET	2	43.5	38.5	47.48

Dimension



Features

- No Gateway or Hub required. SmartShift Starter Kit includes (2) Natural Spectrum SmartShift Ready A19 lamps and (1) Nano
- Use mobile device to configure features for On/Off Control, Dim Level, Color Temperature, Schedules, Scenes, SmartShift and more
- Natural Spectrum Technology mimics natural sunlight to see colors more accurately
- Tunable White 2700 - 6500K with smooth transition between color temperatures
- Connect Nano to 2.4GHz Wi-Fi network to connect to Amazon Alexa or Google Home
- SmartShift circadian lighting syncs white color tuning with the local sunrise and sunset to get your body back in sync

Ordering Matrix

Family	Wattage	Base Type	CRI/Color Temp	SmartShift	Natural Spectrum	Kit
LCBA19	10	E26	9TW	SS	NS	2P-1
	10 = 10W	E26 = Edison Base	9TW = 90 CRI, Tunable White 2700-6500K	SS = SmartShift	NS = >95 CRI, Natural Spectrum	2P-1 = Kit