CLEANLIFE® | Finding a Better Way®
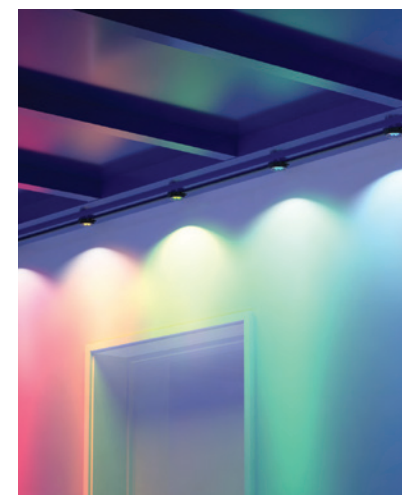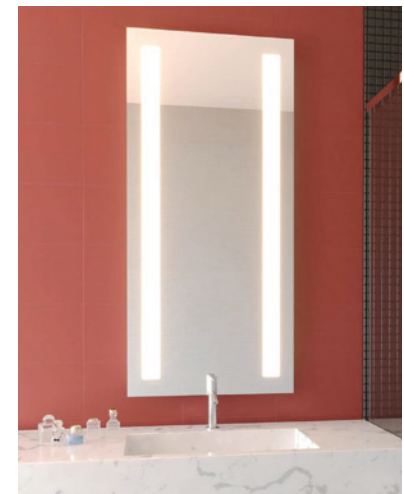
DC-POWERED LED LIGHTING
2024 Low-Voltage Catalog

TABLE OF CONTENTS

INTRODUCTION

WHAT IS LOW VOLTAGE LIGHTING?

Low voltage lighting, as defined by the National Electrical Code or the NEC, is comprised of Class 2 circuits. Class 2 circuits are power limited to 100 Watts and can be installed using non-hazardous Class 2 wiring methods. This is because they present less of a shock, arc, and fire hazard than traditional higher voltage circuits. According to the ISA (International Society of Automation), "Implementing Class 2 principles with the right devices brings functional benefits, lowers the total installed cost, and improves safety for users and equipment."

WHY 24VDC?

Power over 60 Volts DC is not Class 2 and would be subject to the same requirements as standard 120VAC circuits. Systems with voltages lower than 24VDC (i.e. 12 Volt DC systems) generally have greater power losses in the wiring. Utilization of 24VDC thus provides the benefit of Class 2 standards without having to worry about significant losses during transmission. Additionally, there are already many digital devices used within commercial interiors today that utilize 24VDC power – such as occupancy and daylight sensors.

ADVANTAGES OF A CLASS 2 LIGHTING SYSTEM

In 2019 the US Department of Energy (DOE) released its third report on LED driver reliability. The DOE identified that the first stage of the drivers, where the AC to DC conversion takes place, is where most failures occur. By utilizing a Class 2 distributed DC system, the opportunity for such failures is greatly reduced and increase the probability that the LED light fixture would fulfill its long life potential.

As illustrated in Figure 1, the typical LED installation has four potential failure points, while the Class 2 Distributed DC System has only one. The driver used for the Distributed DC System is constructed more robustly and is usually comprised of much higher quality components vs a traditional LED commodity lighting fixtures.
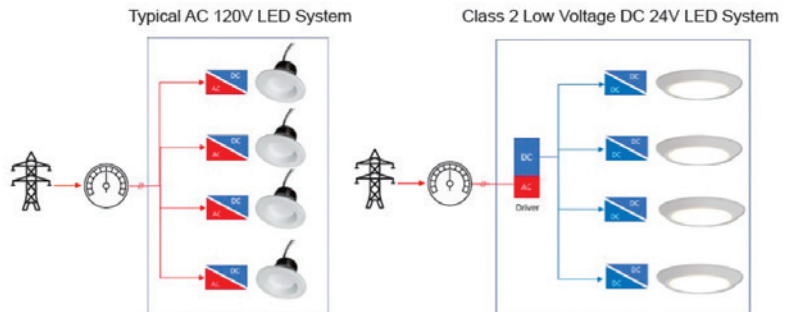
Figure 1: *Traditional 120VAC System vs Low-Voltage 24VDC System*
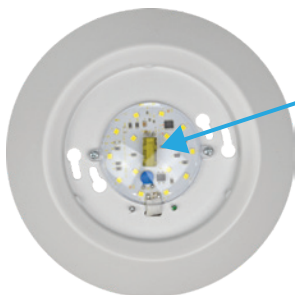
120VAC LED Downlight

120VAC LED light fixtures require additional components, including an electrolytic capacitor, to power the LEDs. This is a common failure point and can cause shadowing in the fixture.
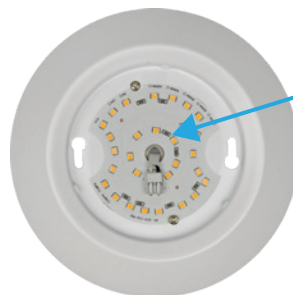
24VDC LED Downlight

24VDC LED light fixtures only require LEDs and resistors. The absence of a driver allows for more room on the board for LEDs and eliminates a common failure point in the light fixture.

Equipment Design: Advantages of NEC Class 2 Power Distribution Devices
https://www.isa.org/intech-home/2021/october-2021/features/equipment-design-advantages-of-nec-class-2-power-d

LOW-VOLTAGE WIRE

SPECIFYING CABLE

It is recommended to use plenum cable for low-voltage lighting installations because it is rated for most in-wall applications. Examples of plenum cable types are CL2P or CL3P cable. This type of designation will be printed on the surface of nonmetallic cable jackets.

18/2 STRANDED NON-SHIELDED PLENUM LOW-VOLTAGE WIRE

MODEL: CL-CBL-CMP-18/2-WH

AWG	18 AWG / 7 Strand Bare Copper
Conductors	2
Insulation	PVC - Plenum
Color Code	Black, Red
Jacket	White / Plenum
Nominal Wall	0.013"
Nominal OD	0.162"
Temperature Rating	75°C
Operating Volts	300V

18/3 STRANDED NON-SHIELDED PLENUM LOW-VOLTAGE WIRE
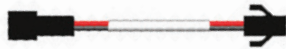
MODEL: CL-CBL-CMP-18/3-WH

AWG	18 AWG / 7 Strand Bare Copper
Conductors	3
Insulation	PVC - Plenum
Color Code	Black, Red, White
Jacket	White / Plenum
Nominal Wall	0.013"
Nominal OD	0.169"
Temperature Rating	75°C
Operating Volts	300V

Custom cut wire, modular systems and connectors available.
Talk to your CLEANLIFE® Representative for more information.

LED LIGHT BULBS

A19 LED BULB

MODEL: CL-LED-24-A19-8WCXXD

8W LED = 60W Equivalent
Clear Glass
E26 Base
CRI >80
24V DC Input
720 Lumens
PWM Dimmable
L70 Lifetime >25,000 hrs.
5-Year Limited Warranty

COLOR TEMPERATURES

2700K	3000K
XX=27	XX=30

California Title 20/JA8 Version Available

ST19 LED BULB

MODEL: CL-LED-24-ST19-8WCXXD

8W LED = 60W Equivalent
Clear Glass
E26 Base
CRI >80
24V DC Input
720 Lumens
PWM Dimmable
L70 Lifetime >25,000 hrs.
5-Year Limited Warranty

COLOR TEMPERATURES

2700K	3000K
XX=27	XX=30

California Title 20/JA8 Version Available

Use our Low-Voltage LED Light Bulbs with any UL Listed Fixture that uses an E26 Socket.*
*Must be wired to a CLEANLIFE® approved Class 2 Low-Voltage 24V LED driver.

POWER SUPPLY CABINETS

Elevate your home with our innovative DC-Power Box!

Designed to endure challenging conditions, you can trust that your home's lighting and fan setups will function seamlessly and effectively for years to come.

- Acts as a central hub to distribute low-voltage DC power for all lighting and fan needs
- Select from various channel options, offering power capacities ranging from 96W to 567W
- Easy access with a latch and key mechanism while ensuring protection

Warranty	5-Year Limited
Certifications	Class 2, Type HL
Enclosure Dimensions	26.3" L x 14.1" W x 2.5" E

REMOVABLE DOOR   *DOOR LOCK*   *DRIVERS PRE-INSTALLED*
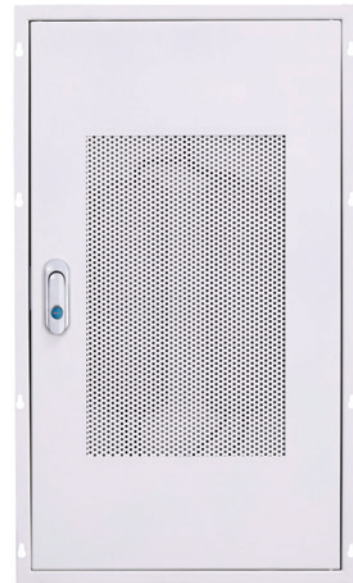
Part Number	Channels	Drivers	Total Wattage	Input Voltage	Output Voltage
CL-LVDE-02-04-01	4 x 96W	192W, 192W	384W	100-277VAC	24VDC Constant Voltage
CL-LVDE-02-05-01	5 X 96W	192W, 288W	480W	100-277VAC	24VDC Constant Voltage
CL-LVDE-02-06-01	6 x 96W	288W, 288W	576W	100-277VAC	24VDC Constant Voltage

LOW-VOLTAGE LED DRIVERS

1-CHANNEL CLASS 2 TRIAC DIMMABLE LED DRIVER

MODEL: CL-24096-TDWJV2

Input Voltage	100-277VAC
Output Voltage	24VDC Constant Voltage
Channels	1 x 96W
Total Wattage	96W
Warranty	5-Year Limited
Certifications	Class 2, Type HL
Driver Dimensions	9" L x 2.8" W x 1.7" H
Enclosure Dimensions	15" L x 3" W x 2.2" H

1-CHANNEL CLASS 2 LED DRIVER WITH ENCLOSURE

MODEL: CL-24096-ASWJV2

Input Voltage	100-277VAC
Output Voltage	24VDC Constant Voltage
Channels	1 x 96W
Total Wattage	96W
Warranty	5-Year Limited
Certifications	Class 2, Type HL
Driver Dimensions	9" L x 2.8" W x 1.7" H
Enclosure Dimensions	15" L x 3" W x 2.2" H

2-CHANNEL CLASS 2 LED DRIVER WITH ENCLOSURE

MODEL: CL-C24192-ASWJV2

Input Voltage	100-277VAC
Output Voltage	24VDC Constant Voltage
Channels	2 x 96W
Total Wattage	192W
Warranty	5-Year Limited
Certifications	Class 2, Type HL
Driver Dimensions	10.5" L x 3.1" W x 1.9" H
Enclosure Dimensions	18" L x 3.4" W x 2.4" H

3-CHANNEL CLASS 2 LED DRIVER WITH ENCLOSURE

MODEL: CL-C24288-ASWJV2

Input Voltage	100-277VAC
Output Voltage	24VDC Constant Voltage
Channels	3 x 96W
Total Wattage	288W
Warranty	5-Year Limited
Certifications	Class 2, Type HL
Driver Dimensions	11.9" L x 3.1" W x 1.9" H
Enclosure Dimensions	18" L x 3.4" W x 2.4" H

35W CLASS 2 MEAN WELL DRIVER

MODEL: LPV-35-24

Input Voltage	100-240VAC
Output Voltage	24VDC Constant Voltage
Total Wattage	35W
Warranty	5-Year Limited
Certifications	Class 2, UL-Recognized
Dimensions	5.8" L x 1.6" W x 1.2" H

60W CLASS 2 MEAN WELL DRIVER

MODEL: LPV-60-24

Input Voltage	100-240VAC
Output Voltage	24VDC Constant Voltage
Total Wattage	60W
Warranty	5-Year Limited
Certifications	Class 2, UL-Recognized
Dimensions	6.4" L x 1.7" W x 1.3" H

MEAN WELL DRIVER ENCLOSURE

MODEL: TRC-E-LPV203560

For use with LPV-20, LPV-35, and LPV-60 series modesl only.

LOW-VOLTAGE SWITCHES & DIMMERS

DO YOU NEED TO SPECIFY SPECIAL SWITCHES OR LIGHTS?

Due to its power limitations, a Class 2 circuit is considered safe from a fire initiation standpoint and provides acceptable protection from electrical shock. Thus, from a regulatory standpoint (UL), there are no safety standards that have been written for low voltage Class 2 switches. No special switches are needed for a Class 2 Distributed DC System. A standard wall switch that is typically rated at 15A, 120VAC can be used. An example of this is the Leviton 56021-2W 3 Amp, 24 Volt AC/DC, Switch Decora Plus Quiet Rocker. CLEANLIFE® also offers a compatible on/off paddle switch along with dimmer options.

Leviton 56021-2W

ON/OFF PADDLE SWITCH

MODEL: CL-SWTCH-1224-1P-01, CL-SWTCH-1224-3P-01

white face plate included

COLOR FINISH
White

INPUT VOLTAGE
12~24VDC Constant Voltage

OUTPUT VOLTAGE
12~24VDC Constant Voltage

MAX LOAD
100W

WIRING OPTIONS
Single Pole, 3-Pole

WIRELESS DIMMER SWITCH AND MODULE

MODEL: CL-CLP-WCV-SWITCH

COLOR FINISH
WHITE

POWER SUPPLY
Kinetic Harvesting

FREQUENCY
90 MHz (EnOcean® Protocol)

RANGE
50–150 ft.

MODEL: CL-CLP-WCV-MOD

FREQUENCY
90 MHz (EnOcean® Protocol)

RANGE
50–150 ft.

INPUT VOLTAGE
8~28VDC Constant Voltage

OUTPUT VOLTAGE
0~28VDC Constant Voltage

MAX LOAD
5A

PWM DIMMER SWITCH AND REMOTE

white face plate included

Part Number	Connection Options	Type
CL-DIM-1224-3P-K-03	3-Way	Dimmer Switch and Remote with Wall Plates
CL-DIM-1224-PWM-3P-03	3-Way	Dimmer Switch with Wall Plate
CL-DIM-RMT-ACC-03	3-Way	Remote with Wall Plate

COLOR FINISH
White

MAX LOAD
120W @ 12V, 240W @24V

INPUT VOLTAGE
12~24VDC Constant Voltage

remote with wall plate

dimmer switch with wall plate

UNDER-CABINET & COVE LIGHTING

EZCONNECT™ LED LIGHT BAR

CLEANLIFE® EzConnect™ LED Light Bars are a one-of-a-kind total solution for under-cabinet and decorative applications.

- 24V Constant Voltage Design
- Long Lifetime, L70>100,000 Hours
- High Efficacy up to 100 LPW
- No Glare, Frosted Lens Cover
- Easy Mounting, 3M-Tape Backing
- Daisy Chains with Quick Connectors
- 5-Year Manufacturer's Limited Warranty
- CE, UL, SAM Certified, RoHS Compliant

12mm [0.5in]

14mm [0.6in]

Cabinet Sizes	Light Bar Size	Light Bar Part Number	Input Voltage	Watts	Lumens	CCT	CRI
12"	9" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-09T	24VDC	2.5W	250lm	3000K	85
15"	12" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-12T	24VDC	3W	300lm	3000K	85
18"	15" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-15T	24VDC	4W	400lm	3000K	85
21"	18" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-18T	24VDC	5W	500lm	3000K	85
24"	21" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-21T	24VDC	5.5W	550lm	3000K	85
27"	24" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-24T	24VDC	6W	600lm	3000K	85
30"	27" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-27T	24VDC	6.5W	650lm	3000K	85
33"	30" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-30T	24VDC	7W	700lm	3000K	85
36"	33" L x 0.6" W x 0.5" H	CL-CTS24FS02H02J-33T	24VDC	7.5W	750lm	3000K	85

Custom CCT Options, Light Bar and Wire Length, and Connector Options Available

EZCONNECT™ LIGHT BAR ACCESSORIES

MALE POWER HARNESS

MODEL: CL-HEZVSH-K-3050

FEATURES
- 99" Length
- Male Connector

FEMALE POWER HARNESS

MODEL: CL-HEZVSJ-K-3050

FEATURES
- 99" Length
- Female Connector

JUMPER HARNESS

MODEL: CL-HEZVSHJ-XXX

AVAILABLE LENGTHS
- 6", 12", 18", 24", 30", 36", 42", 48", 60", 72", 84", 96", Custom

BRACKET KIT

MODEL: CL-A-4

KIT INCLUDES
- (2) End Mounting Brackets
- (1) Middle Mounting Bracket
- (6) #7 1/2" Screws

UNDER-CABINET & COVE LIGHTING

FREE-CUT COB LED LIGHT STRIPS

MODEL: TC-TLS24COBXXX

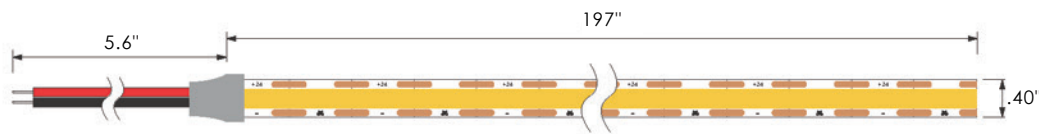| Input Voltage	Wattage	IP Rating	Efficiency	CRI	Width	Max Run
24VDC	5, 10, or 15 W/M	IP67	65lm/W	90+	.40"	197" (5M)

MOUNTING OPTIONS
Adhesive Tape

COLOR TEMPERATURE
3000K
Custom CCT Options Available

WARRANTY
5-Year Limited Warranty
L70 Lifetime >50,0000 Hours

DIMENSIONS
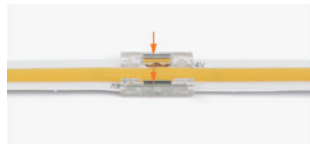
5.6"   197"   .40"

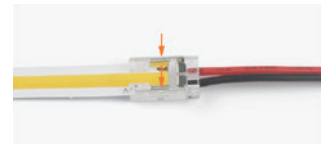Mounting Clips Available

CONNECTOR OPTIONS

Strip to Strip

Strip to Cable

FREE-CUT SMD LED LIGHT STRIPS

MODEL: CL-FLS/24/N/S/150N/000N/90/XX1-5000T

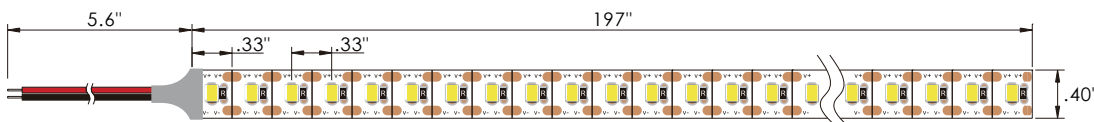| Input Voltage	Wattage	IP Rating	Efficiency	CRI	Width	Max Run
24VDC	12, 14, or 19 W/M	IP20	77, 100, or 92 lm/W	90+	.40"	197" (5M)

MOUNTING OPTIONS
Adhesive Tape

COLOR TEMPERATURE
3000K
Custom CCT Options Available

WARRANTY
5-Year Limited Warranty
L70 Lifetime >50,0000 Hours

DIMENSIONS

5.6"   .33"   .33"   197"   .40"

Mounting Clips Available

UNDER-CABINET & COVE LIGHTING

SMART SMD LED LIGHT STRIP

MODEL: CL-FLS/24/C/RGBT/5000N/00N/080/30S-5000T-65

CCT	RGB+CCT (2700K-6500K)
Power	30W
Voltage	24VDC
Lumens	3200lm
IP Rating	IP65
Length	5M
Cutting	Every 18 LEDs

SMART LED LIGHT STRIP CONTROLLER

MODEL: CL-SMRT-CTR-01

Bare Wire Connections

CCT	RGB, RGBW, RGB+CCT
Features	WiFi+Bluetooth
Optional Features	Music Sync Function
IP Rating	IP65
Input Voltage	12~24VDC
Max Load	80W Per Channel @ 24V

works with CLEANLIFE® SMART   works with alexa   works with Hey Google

RGB+CCT JUMPER CABLE

MODEL: CL-WHA-TL6P-150

FEATURES
- 6" Length
- 6 Position

LIGHT STRIP MOUNTING CLIPS

MODEL: CL-A-14

BLUETOOTH REMOTE

MODEL: CL-SMRT-BCR-BK-RGBT-01

Offers full, customizable control over your Smart Controller at the touch of a button.

(800) 316-2532 | **cleanlife.com** | info@cleanlife.com

LED FAUX NEON

OMNIFLEX LED FAUX NEON

MODEL: CL-FLX/M1615/24/F/30/000N300N/90/10-5000N-67

Input Voltage	Wattage	IP Rating	Efficiency	CRI	Width	Max Run
24VDC	10W/M	IP67	70lm/W	90+	.33"	197" (5M)

MOUNTING OPTIONS	COLOR TEMPERATURE	WARRANTY
Clips or Extrusion	3000K	5-Year Limited Warranty
	Custom CCT Options Available	L70 Lifetime >50,0000 Hours
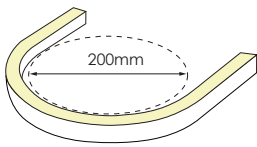
Top bend

Side bend

Combine with top bend and side bend, to meet the request of the different space bend.

200mm

Min bending diameter

DIMENSIONS

197"

11.8"

0.6"

0.63"

0.6"

0.63"

Cross section
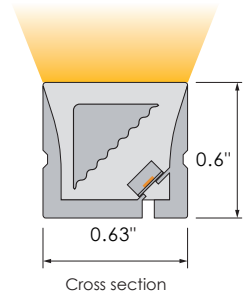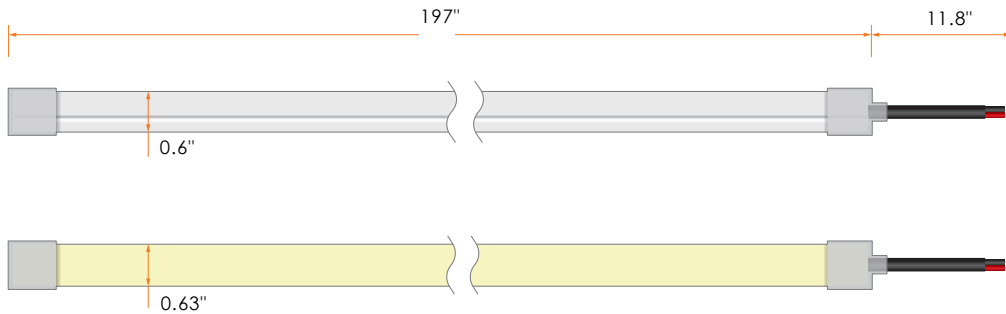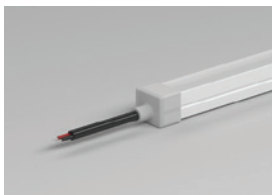
END CAP OPTIONS

Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End Cap

MOUNTING OPTIONS
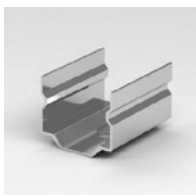
Mounting Clips
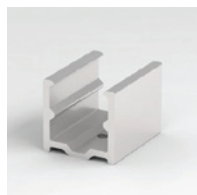
Aluminium Mounting Clips
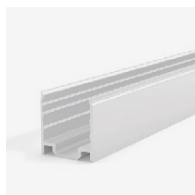
Aluminium Profile

Curved Profile

Suspension Installation

LED FAUX NEON

360° LED FAUX NEON WITH DECORATIVE MOUNTING POSTS

MODEL: CL-FLX/H25/24/F/XX/000N000N/90/10-1000N-20

Voltage	Wattage	IP Rating	Efficiency	CRI	Width	Max Run
24VDC	10W/M	IP20	34lm/W	90+	.98"	197" (5M)

MOUNTING OPTIONS
Surface Mount Posts

WARRANTY
5-Year Limited Warranty
50,000+ Hour Lifetime

COLOR TEMPERATURE
3000K

Custom CCT Options Available

MOUNTING HARDWARE

DIMENSIONS

70mm"   Ø45mm"
Ø28mm"   Ø22mm"
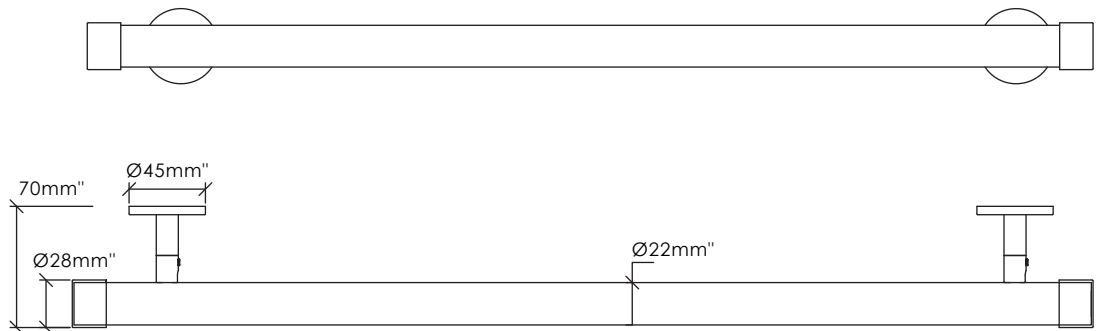
PENDANTS

CONTEMPORARY LED PENDANT

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-CLSP-XX30-01	4"	24VDC	5W	400lm	80+	4" W x 10-5/8" H

Shown in Brushed Nickel

FINISH OPTIONS
Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

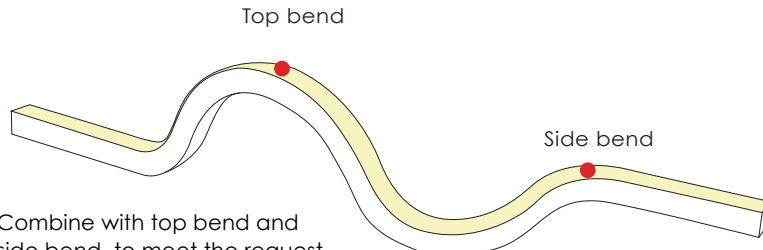*California Title 24 Version Available*

COLOR TEMPERATURE
3000K

Custom CCT Options Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

RECESSED LED DOWNLIGHTS

DUAL-MOUNT SLIM DOWNLIGHT

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-DMDL05-XX30-01	5"	24VDC	9W	810lm	80+	Ø 4.8" x 1" H

Shown in Matte White
Mounting Bracket and Spring Clips Included

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

ETL Intertek   FC   DIMMABLE

California Title 24 Version Available

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

SPRING CLIPS FOR MOUNTING PLATE INSTALLATION

Mounting Plate Sold Separately
(Part No. CL-RDMP-01)

MOUNTING BRACKET FOR J-BOX INSTALLATION

J-Box Sold Separately

RECESSED ROUND LED DOWNLIGHT

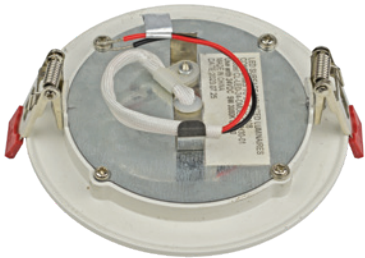| Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-MDL05-XX30-01	5"	24VDC	10W	700lm	80+	Ø 5" x 1.25" H
CL-LED-24-MDL07-XX30-01	7"	24VDC	15W	1200lm	80+	Ø 6.75" x 1.25" H

Shown in White
Mounting Plate Sold Separately
(Part No. CL-RDMP-01)

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

ETL Intertek   FC   DIMMABLE

California Title 24 Version Available

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

RECESSED SQUARE LED DOWNLIGHT

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-RSDL05-XX30-01	5"	24VDC	10W	700lm	80+	5" L x 5" W x 1.8" H
CL-LED-24-RSDL07-XX30-01	7"	24VDC	15W	1200lm	80+	7.5" L x 7.5" W x 1.8" H

Shown in White
Mounting Plate Sold Separately
(Part No. CL-RDMP-01)

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

ETL Intertek   FC   DIMMABLE

California Title 24 Version Available

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

SURFACE MOUNT LED CEILING LIGHTS

SLIM LED FLUSH DISC LIGHTS

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-USFM05-XX30-01	6"	24VDC	8W	780lm	80+	5.5" W x 1" H
CL-LED-24-USFM08-XX30-01	8"	24VDC	13W	1085lm	80+	7.8" W x 1.3" H

Shown in White

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

California Title 24 Version Available
Optional O-ring Included for Wet Location

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

XL SLIM LED FLUSH DISC LIGHTS

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-USFM12-XX30-01	12"	24VDC	17W	1100lm	80+	12" W x 1.8" H
CL-LED-24-USFM16-XX30-01	16"	24VDC	30W	2100lm	80+	16" W x 2" H

Shown in White

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

California Title 24 Version Available
Optional O-ring Included for Wet Location

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY
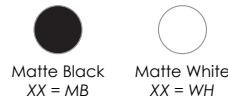
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

EDGELIT LED ROUND PANEL

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-RPL05-XX30-01	5"	24VDC	10W	875lm	80+	5.4" W x 0.7" H
CL-LED-24-RPL07-XX30-01	7"	24VDC	12W	1200lm	80+	6.3" W x 0.7" H
CL-LED-24-RPL09-XX30-01	9"	24VDC	15W	1600lm	80+	8.9" W x 0.7" H

Shown in White

FINISH OPTIONS

Matte Black
XX = MB

Matte White
XX = WH

California Title 24 Version Available

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

EDGELIT XL LED ROUND PANEL

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-RPL12-XX30-01	12"	24VDC	25W	1700lm	80+	12" W x 0.7" H

Shown in White

FINISH OPTIONS

Matte Black
XX = MB

Matte White
XX = WH

California Title 24 Version Available

COLOR TEMPERATURE

3000K

Custom CCT Options Available
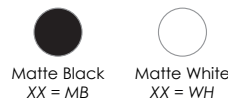
WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours
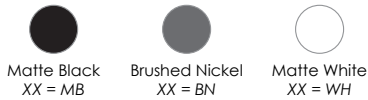
DECORATIVE LED CEILING LIGHTS

CONTEMPORARY CEILING FIXTURE

Shown in Brushed Nickel

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-CCF12-XX30-01	12"	24VDC	10W	1360lm	80+	12" W x 3" D
CL-LED-24-CCF14-XX30-01	14"	24VDC	18W	1780lm	80+	14" W x 3.5" D
CL-LED-24-CCF16-XX30-01	16"	24VDC	21W	2200lm	80+	15.75" W x 3.88" H

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours
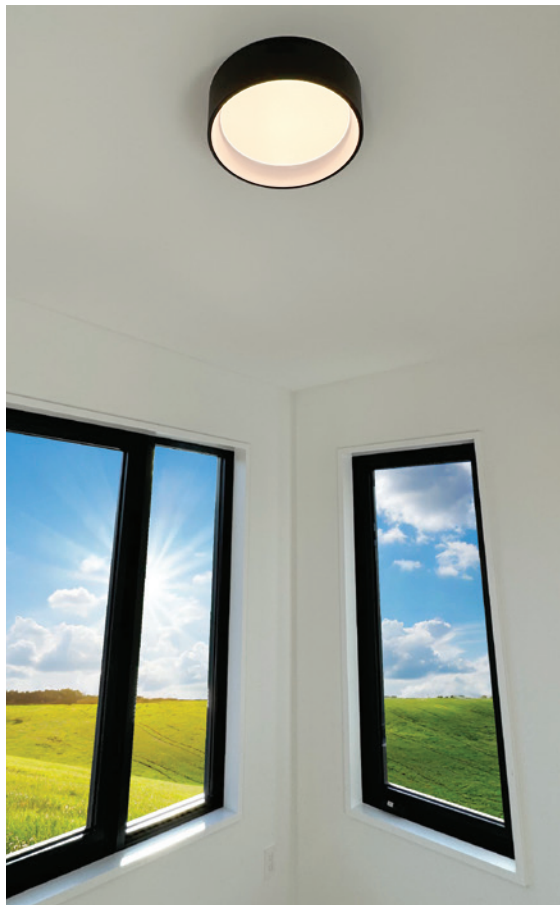
MODERN CEILING FIXTURE

Shown in Matte Black

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-MFHCF13-MB30	13"	24VDC	25W	1400lm	80+	13" W x 3.9" H

FINISH OPTIONS
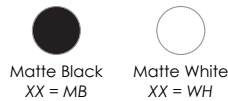
Matte Black
XX = MB

Matte White
XX = WH

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

DECORATIVE LED CEILING LIGHTS

TRIMLESS LINEAR LIGHT PANEL

Shown in White

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-LTDL-XX30	18"	24VDC	17W	1700lm	80+	18" L x 4.7" W x 1.5" H

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

COLOR TEMPERATURE
3000K

Custom CCT Options Available

ETL Intertek FC DIMMABLE

California Title 24 Version Available

TRIMLESS EDGELIT CEILING LIGHT

Shown in Matte Black

Part Number	Design Pattern	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-ELCL13-XX3050-03	Swirl	13"	24VDC	10W	590lm	80+	13" D x 0.9" H

FINISH OPTIONS
Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

COLOR TEMPERATURE
3000K

Custom CCT Options Available

CUSTOM LASER ETCHING AVAILABLE

ETL Intertek FC DIMMABLE

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

LED VANITY LIGHTS

MODERN LED VANITY LIGHT

Shown in Matte Black

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-UVLB24-XX30-01	24"	24VDC	17W	1690lm	80+	24" L x 5" H x 3" E
CL-LED-24-UVLB36-XX30-01	36"	24VDC	22W	1875lm	80+	36" L x 5" H x 3" E
CL-LED-24-UVLB48-XX30-01	48"	24VDC	28W	3100lm	80+	48" L x 5" H x 3" E

FINISH OPTIONS
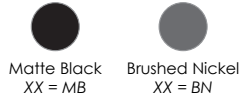
Matte Black
XX = MB

Brushed Nickel
XX = BN

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
>100,000 Hour Lifetime

CONTEMPORARY LED VANITY LIGHT

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Dimensions
CL-LED-24-CV02-XX30-01	2-Light	24VDC	13W	1050lm	80+	13" L x 7.9" H x 6.3" E
CL-LED-24-CV03-XX30-01	3-Light	24VDC	21W	1600lm	80+	22" L x 7.9" H x 6.3" E

Shown in Polished Nickel

FINISH OPTIONS

Matte Black
XX = MB

Polished Nickel
XX = PN

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

MODERN LED VANITY LIGHT

Shown in Matte Black
24V Filament LED Bulbs Included

Part Number	Size	Lamp Count	Base	Input Voltage	Dimensions
CL-LED-24-TSVL01-XXZZ	10"	1-Light	E26	24VDC	10" H x 7" E
CL-LED-24-TSVL02-XXZZ	15"	2-Light	E26	24VDC	15" L x 10" H x 7" E
CL-LED-24-TSVL03-XXZZ	24"	3-Light	E26	24VDC	24" L x 10" H x 7" E

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Brushed Gold
XX = BG

COLOR TEMPERATURES

2700K	3000K
ZZ=27	*ZZ=30*

Custom CCT Options Available

California Title 24 Version Available

WARRANTY
10-Year Limited Warranty
L70 Lifetime >25,0000 Hours

BACKLIT LED MIRRORS

ARGYLE SLIM LED MIRROR

Part Number	Sizes	Input Voltage	Watts	Lumens	CRI
MM-BLM/40/24/30/085/2L-ARG24X36	24" x 36"	24VDC	40W	3400lm	85
MM-BLM/40/24/30/085/2L-ARG30X36	30" x 36"	24VDC	40W	3400lm	85
MM-BLM/44/24/30/085/2L-ARG30X42	30" x 42"	24VDC	44W	3800lm	85
MM-BLM/40/24/30/085/2L-ARG36X42	36" x 42"	24VDC	44W	3800lm	85
MM-BLM/44/24/30/085/2L-ARG60X42	60" x 42"	24VDC	44W	3800lm	85

COLOR TEMPERATURE

3000K

WARRANTY
10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

California Title 24 Version Available

Majestic *Mirror & Frame*
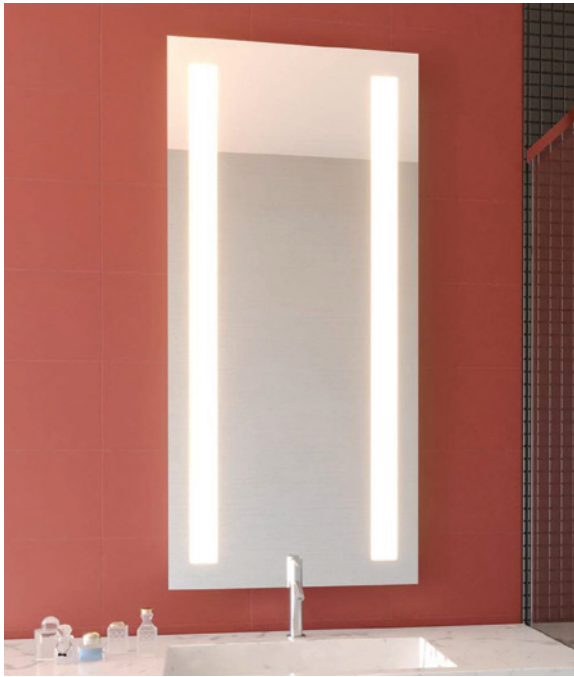
Curved Glass and Custom Sizes Available
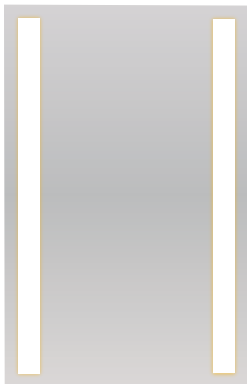
- Lightweight Driverless Design
- Slim, Low Profile, Only 3/4" Thick
- Easy to Mount with Included Cleat

LOW-VOLTAGE BATH FANS

INTEGRATED LED BATH FAN

Part Number	Size	Input Voltage	Light Power	Fan Power	Lumens	CFM	Sones	CRI
CL-LED-24-SBFL-WH30-01	11.3" L x 11.3" W x 6.3" H	24VDC	12W	8W	1150lm	50	0.5	90+

Shown in White

FINISH OPTION

○ Matte White

COLOR TEMPERATURE

3000K

WARRANTY
5-Year Limited Warranty
>50,000 Hour Lifetime

TRI-SPEED BATH FAN

Part Number	Size	Input Voltage	Fan Power	CFM	Sones
CL-24-STSBF-WH-01	12.6" L x 12.6" W x 6.7" H	24VDC	6W/9W/14W	50/80/110	0.1/0.5/1.0

Shown in White

FINISH OPTION

○ Matte White

WARRANTY
5-Year Limited Warranty
>50,000 Hour Lifetime

Integrated LED Bath Fan shown with 5" Edgelit LED Surface Mount Round Panel (featured on page 12)

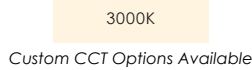# LOW-VOLTAGE CEILING FANS

Shown in Brushed Nickel with Round Blades

Shown in Matte Black with Square Blades

Part Number	Blade Style	Number of Fan Blades	Input Voltage	Light Power	Fan Power	Lumens	CRI	Dimensions
CL-LED-24-C3BCF-XX30-01	Round	3-Blades	24VDC	17W	20W	1100lm	80+	Ø 50" x 15.3" H
CL-LED-24-C4BCF-XX30-01	Round	4-Blades	24VDC	17W	20W	1100lm	80+	Ø 50" x 15.3" H
CL-LED-24-C5BCF-XX30-01	Round	5-Blades	24VDC	17W	20W	1100lm	80+	Ø 50" x 15.3" H
CL-LED-24-C3BCF-XX30-02	Square	3-Blades	24VDC	17W	20W	1100lm	80+	Ø 52" x 15.3" H
CL-LED-24-C4BCF-XX30-02	Square	4-Blades	24VDC	17W	20W	1100lm	80+	Ø 52" x 15.3" H
CL-LED-24-C5BCF-XX30-02	Square	5-Blades	24VDC	17W	20W	1100lm	80+	Ø 52" x 15.3" H

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

COLOR TEMPERATURE

3000K

Custom CCT Options Available

WARRANTY

5-Year Limited Warranty
>50,000 Hour Lifetime

WIRELESS WALL CONTROLLER

Fan and Light On/Off
Fan On/Off
Fan Speed
Fan Reversal

Light On/Off
Light Brightness/Dimming
Fan Timer with LED Indicators for 1hr/4hr
5 LED Indicator for
–Fan 1-5 Speed
–Light Brightness/Dimming
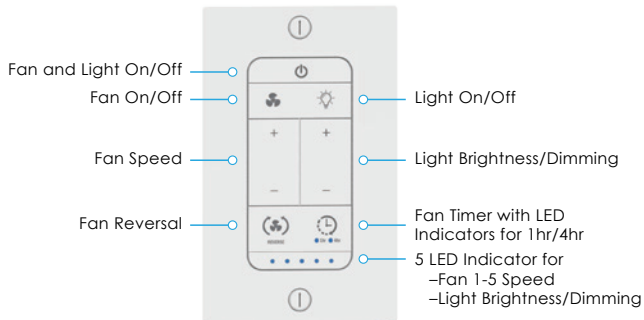
WIRING DIAGRAM FOR WIRELESS WALL CONTROLLER

RF Wall Controller

RF Receiver

Integrated LED Ceiling Fan

REMOTE CONTROL

Fan On/Off
Fan Speed Settings
Reverse Fan Rotation

Light On/Off
Dimming
1HR and 4HR Timer
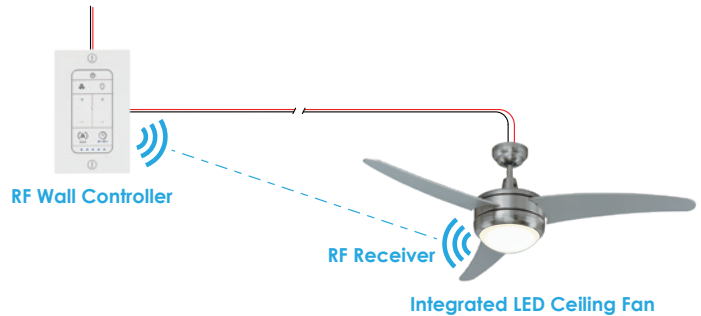
WIRING DIAGRAM FOR REMOTE CONTROL

Paddle Switch

RF Receiver

Remote

Integrated LED Ceiling Fan
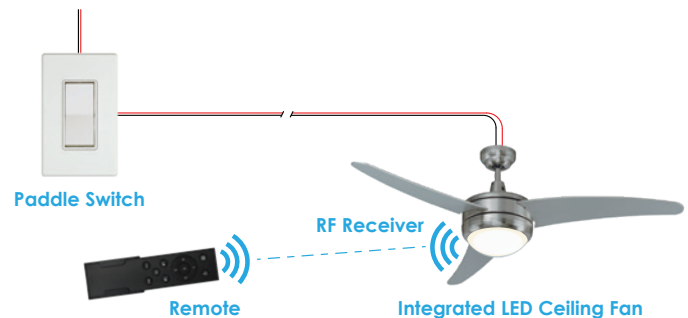
OUTDOOR LIGHT FIXTURES

MODERN LED OUTDOOR WALL SCONCE (PHOTOCELL OPTION AVAILABLE)

Shown in Matte Black

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Photocell	Dimensions
CL-LED-24-MOWS08-XX30	8"	24VDC	8W	800lm	80+	No	6" W x 8" H x 3" E
CL-LED-24-MOWS08-XX30 (P)	8"	24VDC	8W	800lm	80+	Yes	6" W x 8" H x 3" E

FINISH OPTIONS

Matte Black
XX = MB

Silver
XX = SL

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

OUTDOOR LED LANTERN (PHOTOCELL OPTION AVAILABLE)

Shown in Matte Black

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Photocell	Dimensions
CL-LED-24-ODLN10-MB30-01	10"	24VDC	12W	750lm	80+	No	5" W x 10" H x 3.4" E
CL-LED-24-ODLN10-MB30-01 (P)	10"	24VDC	12W	750lm	80+	Yes	5" W x 10" H x 3.4" E

FINISH OPTION

Matte Black

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

MODERN LED WALL LIGHT

Shown in Matte Black

Part Number	Size	Input Voltage	Watts	Lumens	CRI	Photocell	Dimensions
CL-LED-24-MWL04-XX30-01	4"	24VDC	15W	1050lm	80+	No	4.3" W x 4.7" H x 6" E
CL-LED-24-MWL04-XX30-01 (P)	4"	24VDC	15W	1050lm	80+	Yes	4.3" W x 4.7" H x 6" E

FINISH OPTIONS

Matte Black
XX = MB

Brushed Nickel
XX = BN

Matte White
XX = WH

COLOR TEMPERATURE

3000K

Custom CCT Options Available

California Title 24 Version Available

WARRANTY

10-Year Limited Warranty
L70 Lifetime >50,0000 Hours

SMART OUTDOOR LED PUCK LIGHTS

24V RGBIC DREAM FULL COLOR OUTDOOR PERMANENT LIGHTING
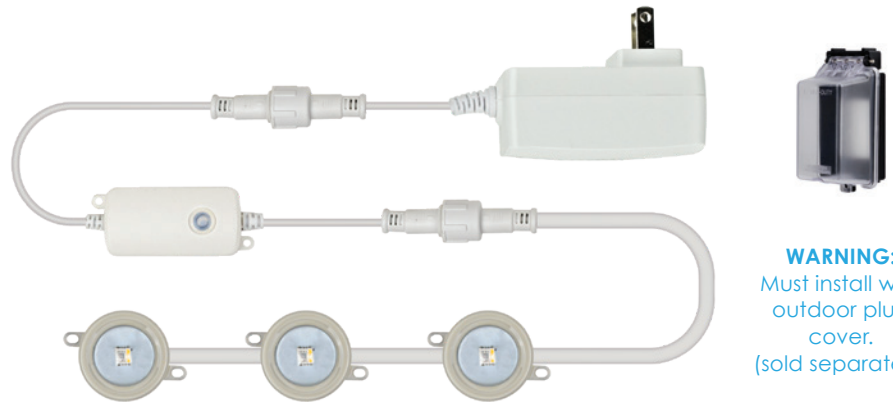
MODEL: CL-SMRT-UEL40-24-RGBICW-50

Input Voltage	Wattage	Qty of Pucks	IP Rating	CRI	Width	String Length
24VDC	18W	24	IP67	80+	.12"	45' (15M)
24VDC	22.5W	30	IP67	80+	.12"	45' (15M)
24VDC	27W	36	IP67	80+	.12"	45' (15M)
24VDC	30W	40	IP67	80+	.12"	45' (15M)

MOUNTING OPTIONS	*AVAILABLE COLORS*	*WARRANTY*
Adhesive and Screws	RGBIC or RGBWIC	5-Year Limited Warranty L70 Lifetime >50,0000 Hours

works with CLEANLIFE® SMART

works with alexa

works with Hey Google

Remote control buttons:
- On
- Off
- Cycle Through 8 Static Colors
- Brightness Increase
- Speed Up
- Speed Down
- Brightness Reduction
- 8 Colors Fixed
- 8 Colors Flash Randomly
- Strobe
- Breath
- Flash

Control the lights with CLEANLIFE® Smart App or the included remote control.

WARNING: Must install with outdoor plug cover. (sold separately)

Add multiple strings to increase length and pair together in CLEANLIFE® Smart App.
App can control up to 90 pucks. Ask your CLEANLIFE® representative for more info and custom layouts.

FUTURE LOW-VOLTAGE REPLACEMENTS

Future replacement of your low-voltage fixture is straightforward and easy to accomplish. No electrician is needed for Class 2 installations. There are only two wires that need to be disconnected, typically a **Black** (-) and a **Red** (+). The fixture can then be replaced with any Class 2, 24VDC light fixture. The only limitation is that the new fixture cannot exceed the wattage of the old fixture. This ensures that the new light fixture does not cause the total wattage on the circuit to exceed the maximum power rating.

Figure 2: Example Fixture Label

Figure 2 is an example of a fixture label and what to look for: 1) Ensure that the new fixture has been certified to UL STD 2108; 2) Fixture voltage is 24VDC; 3) Note the wattage rating and do not exceed.
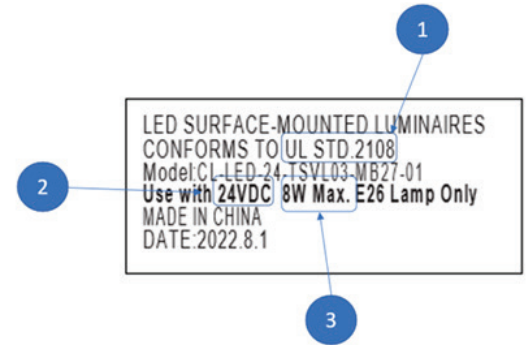

Figure 3: Maximum Wattage Label

A traditional vanity fixture with Edison screw-based sockets (certified to UL 1598) can also be used to replace an existing integrated low voltage LED fixture. The steps involved are similar to the previous steps. Remove the integrated low voltage lighting fixture and look at the label to check the maximum wattage. As an example, in **Figure 3**, the integrated low voltage fixture is 24W. If the replacement fixture is a three-light vanity, such as in **Figure 6**, the maximum wattage per bulb must not exceed 8W (8*3=24W). Next, wire the new fixture, connecting the **positive** wire from the wall to the **WHITE** wire of the fixture and the **negative** wire from the wall to the **BLACK** wire of the fixture and secure to the wall.

Figure 4: 24VDC Edison Based Light Bulb (Available at CLEANLIFE)

Install the 24VDC filament bulbs to the fixture. Finally, if the bulbs were purchased from CLEANLIFE, a label is included such as shown in Figure 5 below. Affix the label around the socket of the new fixture.

Figure 5: Example Max Wattage Label

Figure 6: 3-Light Vanity (Available at CLEANLIFE)

FEATURES OF A LOW-VOLTAGE LED LIGHTING SYSTEM

Energy Efficient

Eco Friendly
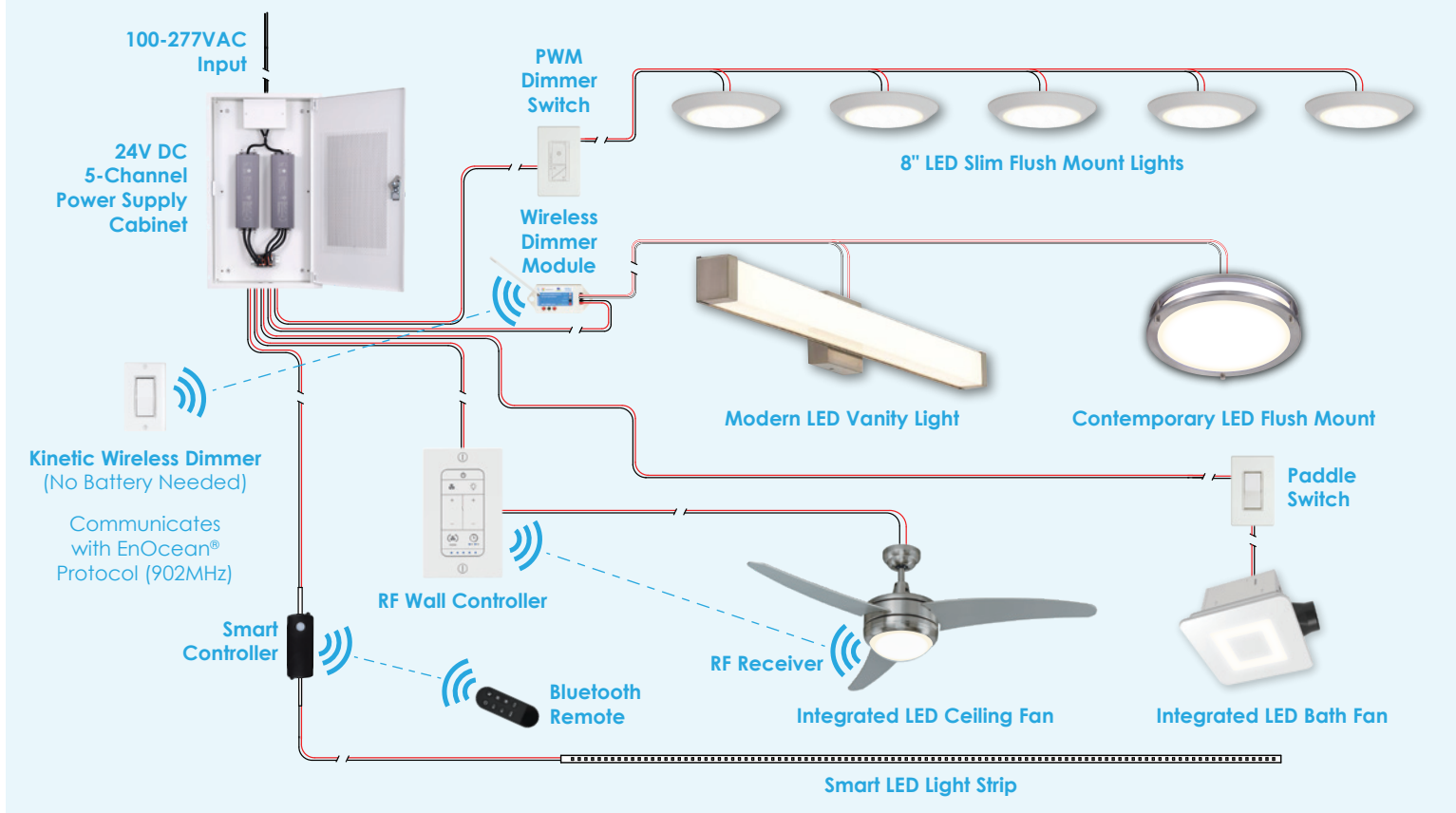
Cost Effective

Human Safe

Long Lifetime

Low Heat Contributions

24V DC LOW-VOLTAGE LED LIGHTING SYSTEM EXAMPLE

100-277VAC Input

24V DC 5-Channel Power Supply Cabinet

PWM Dimmer Switch

8" LED Slim Flush Mount Lights

Wireless Dimmer Module

Modern LED Vanity Light

Contemporary LED Flush Mount

Kinetic Wireless Dimmer (No Battery Needed)

Communicates with EnOcean® Protocol (902MHz)

RF Wall Controller

Paddle Switch

Smart Controller

Bluetooth Remote

RF Receiver

Integrated LED Ceiling Fan

Integrated LED Bath Fan

Smart LED Light Strip

"The CLEANLIFE® team really want to drive the changes that we are facing in the prefab and building world. They are extremely attentive to new ideas and are pushing the envelope in a similar way that we try to do within our everyday duties. The quality and service CLEANLIFE® has provided is above and beyond anything we've been used to in the past. We couldn't be happier to have CLEANLIFE® as our lighting experts."

- Russ and Kyle, Ohio Builders