

DL-120

LOW VOLTAGE RECESSED LED LIGHT



4" Tunable White Recessed LED

The DL-120 recessed LED fixture offers high lumen output, recessed point light source, and safe low voltage operation.

Operating at 6 W, with over 780 lumens, this LED fixture and AL-CBOX4 mounting solution allow code-compliant LED installations in single family or MDU with low voltage wiring. Because all the power in goes to the LED (there are no drivers or electronics involved) and because the COB LED source is not diffused, the lumen output is comparable to 10 W 120 V AC fixtures.

Key Specifications

Electrical/Operational	
Operating Wattage	6 W
Max Voltage	7 W
Operating Voltage	7.5 to 9.0 V
Recommended Wiring	Series, 4 or 5 fixtures sharing one driver
Operating Current	0 to 660 mA
Operating Temperature	Ceiling mount, -20 to 50°C non-condensing
Photometrics/Optical	
Color Temperature	6 fixed options plus tunable white
CRI	90 and better
Dimming Range	0 to 100%, flicker-free, no artifacts
Lumens	780

Features

- Fixed true white and color tunable options available
- 0-100% smooth dimming with zero flicker
- Cool operation with no hot spots
- Suitable for wet locations
- Available in 4" trim size

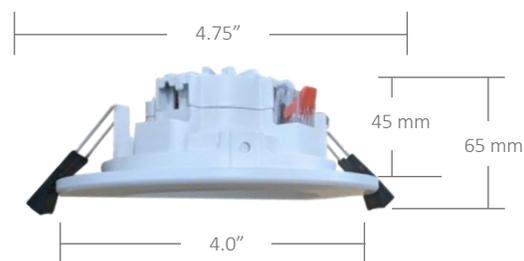
Certifications

- JA8/Title 24 compliant
- IC rated for direct contact with insulation
- Closet rated under NEC codes

Dimensions

The DL-120 is available in a 4-inch trim size.

Base width	4.0 in / 101.6 mm
Face width	4.75 in / 120.65 mm
Body height	45 mm from trim plate
Extended spring	65 mm



Color Temperature Options

This fixture can be operated as one of six fixed color temperatures or as a tunable white fixture. Any 660 mA current source can be used. Up to five fixtures can be wired in series to share one driver, which can be located up to 150 feet from the LEDs since constant current eliminates the concerns about voltage drop. This 6 W device can be installed as either tunable white or fixed color as shown in the chart below. Connecting both inputs in parallel will generate the color CCT marked #.

Part Number	2700K Soft White	3000K Bright White	3500K Neutral White	3850K Cool White	4000K Direct Sun	5000K Daylight
<i>Fixed Color Options</i>						
DL-120-660mA-3500K			+			
DL-120-660mA-27/50K	+			#		+
DL-120-660mA-30/40K		+	#		+	
<i>Tunable Color</i>						
DL-120-660mA-27/50K	+	—————				+
DL-120-660mA-30/40K		+	—————			+

Wiring Options

The DL-120 is wired in series. Up to 5 fixtures can be wired in series for the brightest result and perfect dimming. These are driverless designs: the driver can be located up to 50 ft from the LEDs using AWG20/2 wire since constant current eliminates the concerns about voltage drop.

DCC – Direct Current Controlled - Fixed Signature line - The voltage per bulb is between 6 and 9 volts, with current from 0-660 mA for perfect flicker-free dimming to 0.16%. Up to five LEDs are wired in series, and two series circuits wire to each AL-WS-DR2 for applications from 1 to 10 bulbs.

DCC – Direct Current Controlled - Tunable Signature line The voltage per bulb is between 6 and 9 volts, with two LED strings per fixture, each with current from 0-660 mA for perfect flicker-free dimming to 0.16%. Up to five LEDs are wired in series, to each AL-WS-DR2.

Wall Switch	Fixed	Tunable	Feature	DABus ¹
AL-WS-DR1	5		Value	
AL-WS-DR1-PIR	5		Motion	X
AL-WS-DR2	10	5	Smart	X
AL-WS-DR2C	10	5	Universal	
AL-WS-DR2W	10	5	WiFi	
AL-WS-BATH	5		Value	

NOTE: 1 - ATX LED Smart switches are compatible with the IEC62386 standard. For more information, please see <https://www.dali-alliance.org/dali/standards.html>

Part Numbering

DL-120	-	660mA	-	3000K
Product Number		Description		Variety