

# Dimming Guide

## ML56 Series

**HALO**

The ML56 LED series provides continuous dimming control with 120V reverse or forward phase cut dimmers. The ML56 LED series may also have switched control from 120V-277V mains input.

### ML56 - 600 Series - 80CRI

ML5606827  
**ML5606830**  
 ML5606835  
 ML5606840

### ML56 - 900 Series - 80CRI

ML5609827  
 ML5609830  
 ML5609835  
 ML5609840

### ML56 - 1200 Series - 80CRI

ML5612827  
 ML5612830  
 ML5612835  
 ML5612840

### ML56 - 600 Series - 90CRI

ML5606927  
 ML5606930  
 ML5606935  
 ML5606940  
 ML5606D2W930

### ML56 - 900 Series - 90CRI

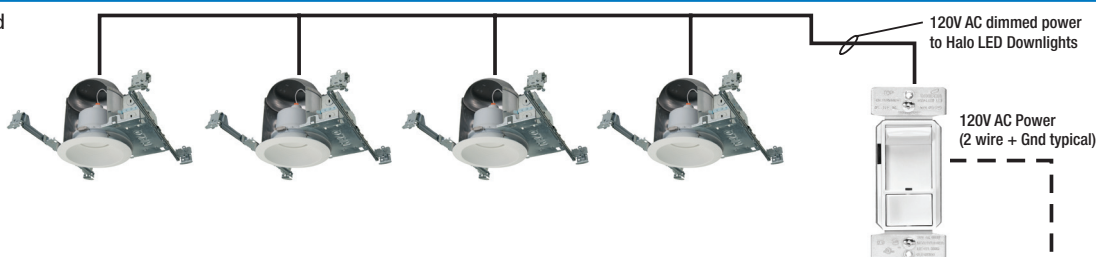
ML5609927  
 ML5609930  
 ML5609935  
 ML5609940  
 ML5609D2W930

### ML56 - 1200 Series - 90CRI

ML5612927  
 ML5612930  
 ML5612935  
 ML5612940  
 ML5612D2W930

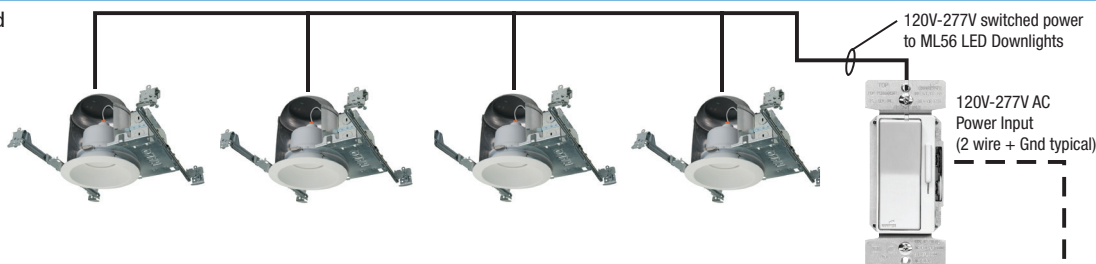
## Phase Control 120V Dimming

ML56 luminaires installed with a 120V dimmer.



## Universal Voltage Switched Control

ML56 luminaires installed on 120V-277V switched power input.



Eaton's AL Series dimmers offer versatile options to set the mood and reduce energy consumption.

Visit [www.cooperwiringdevices.com/ALSeries](http://www.cooperwiringdevices.com/ALSeries) for more information.



**\*Note:** The Rapid Start feature is used to ensure the right amount of power boost during start-up. When a dimmer with Rapid Start is turned on from a low dimmer setting, the LED lighting may exhibit a momentary flash. Select dimmer models offer an adjustment of the Rapid Start feature. The user may wish to adjust this setting to reduce the boost and resulting momentary flash. If this capability is desired, the user should select dimmer models designated as "fully adjustable" or "selectable ON or OFF".

Dimmer Features	ACCELL (AAL06)	DEVINE (DAL06P)	SKYE (SAL06P)	TRACE (TAL06P)
Rapid Start feature*	Selectable ON or OFF	Fully adjustable	Fixed ON	Fully adjustable
Adjustable high-end trim	•	•	•	•
Adjustable low-end trim	•	•	•	•
Wiring configurations	Single-pole or multi-location	Single-pole or 3-way	Single-pole or 3-way	Single-pole or 3-way
Color change kits	•	•	•	•

## ML56 - 600 Series - 80CRI

ML5606827

**ML5606830**

ML5606835

ML5606840

### LED Rated Dimmers

Dimmer Make	Dimmer Series	Dimmer Model #	Dimmer Rating	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Max Dimming percentage (%)	Min Dimming percentage (%)	Start Time
Leviton	Sureslide	6674	ELV (rated for LED)	1	16	98%	2%	≤1 sec
Leviton	Illumatech	IPE04	ELV (rated for LED)	1	32	98%	1%	≤1 sec
Leviton	Illumatech	IPL06	INC (rated for LED)	1	16	98%	2%	≤1 sec
Lutron	Skylark	SCL-153P	ELV (rated for LED)	1	16	96%	3%	≤1 sec
Lutron	Diva	DVCL-153P	INC/HAL/CFL/LED	1	16	96%	1%	>1 sec
Lutron	Maestro	MACL-153P	INC/CFL/LED	1	16	92%	3%	≤1 sec
Lutron	Toggler	TGCL-153P	INC/HAL/CFL/LED	1	16	96%	1%	≤1 sec
CWD	SKYE	SAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	32	100%	1%	≤1 sec
CWD	Devine	DAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	32	100%	2%	≤1 sec
CWD	SKYE	SLC03P	INC/HAL/CFL/LED	1	32	99%	1%	≤1 sec
CWD	Devine	DLC03P	INC/HAL/CFL/LED	1	32	100%	1%	≤1 sec <sup>1</sup>
CWD	Devine	TAL06P	INC/HAL/CFL/MLV/ELV/LED	1	32	100%	1%	≤1 sec
Insteon	SwitchLinc	2477D	Triac (INC)	1	13	99%	3%	<1 sec <sup>2</sup>

<sup>1</sup> Slight Flicker at Low Light

<sup>2</sup> Dimmed to zero light

#### Dimmer Make

**CWD** = Eaton's Cooper Wiring Devices Business

**CC** = Eaton's Cooper Controls Business

#### Dimmer Rating - Load Type

**INC** = Incandescent

**HAL** = Halogen

**MLV** = Magnetic Low Voltage

**ELV** = Electric Low Voltage

**CFL** = Compact Fluorescent

**FLR** = Fluorescent

## ML56 - 600 Series - 80CRI

ML5606827

ML5606830

ML5606835

ML5606840

### For Reference Only - Incandescent and Electronic Low Voltage Rated Dimmers

Testing conducted by Cooper Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification.

Refer to manufacturer specifications for more detailed information on product certifications and standards. Refer to this dimming guide notes section.

Consult the dimmer manufacturer prior to installation to ensure compatibility.

Dimmer Make	Dimmer Series	Dimmer Model #	Dimmer Rating	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Max Dimming percentage (%)	Min Dimming percentage (%)	Start Time
Leviton	Decora	6673	CFL, INC	1	16	97%	10%	≤1 sec
Leviton	Sureslide	6631-2	INC	1	16	99%	1%	>1 sec
Leviton	Illumatech	RP106	INC	1	16	100%	2%	>1 sec
Leviton	Illumatech	IP106	INC	1	16	100%	1%	>1 sec
Leviton	Vizia	VP106	INC	1	16	95%	1%	≤1 sec
Leviton	Decora	6161	INC	1	16	98%	2%	≤1 sec
Leviton	Sureslide	6633-P	INC	1	16	100%	1%	>1 sec
Lutron	Toggler	TG-600P	INC	1	16	99%	4%	≤1 sec
Lutron	Nova T	NTFTU-5A	INC	1	67	100%	10%	≤1 sec
Lutron	Lumea	LG600P	INC	1	16	98%	1%	≤1 sec
Lutron	Skylark	S600P	INC/HAL	1	16	98%	1%	≤1 sec
Lutron	Skylark Contour	CT103P	INC/HAL/MLV	1	26	98%	1%	≤1 sec
Lutron	Diva	DV603P	INC/HAL	1	16	98%	1%	≤1 sec
CWD	Devine	RI061	INC/HAL	1	16	96%	4%	>1 sec
Leviton	Vizia	VPE06	ELV	1	16	98%	2%	≤1 sec
Leviton	Vizia	VZE04	ELV	1	16	96%	3%	≤1 sec
Leviton	Acenti	ATX-10	ELV	1	86	97%	1%	≤1 sec <sup>2</sup>
Lutron	Maestro	MAELV600	ELV	1	64	91%	3%	≤1 sec
Lutron	Faedra	FAELV500	ELV	1	53	90%	3%	≤1 sec
Lutron	Diva	DVELV303P	ELV	1	32	83%	1%	≤1 sec
Lutron	Skylark	SELV300P	ELV	1	32	85%	1%	≤1 sec
CWD	React	SF8AP	INC	1	107	100%	3%	≤1 sec
CWD	Skye	DE06P	ELV	1	16	91%	9%	>1 sec <sup>3</sup>
CWD	Trace	TI061	INC	1	16	88%	1%	≤1 sec <sup>1</sup>
Leviton	Plug In Lamp Dimmer	TBI04	INC	1	n.a.	100%	1%	>1 sec

<sup>1</sup> Slight shimmer

<sup>2</sup> Shimmer at mid dimming level, dimming jumps abruptly

<sup>3</sup> Occasionally flashes at start up, start time greater than 1 sec, slight shimmer, occasionally flickers, does not dim smoothly

#### Dimmer Make

**CWD** = Eaton's Cooper Wiring Devices Business

**CC** = Eaton's Cooper Controls Business

#### Dimmer Rating - Load Type

**INC** = Incandescent

**HAL** = Halogen

**MLV** = Magnetic Low Voltage

**ELV** = Electric Low Voltage

**CFL** = Compact Fluorescent

**FLR** = Fluorescent