

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

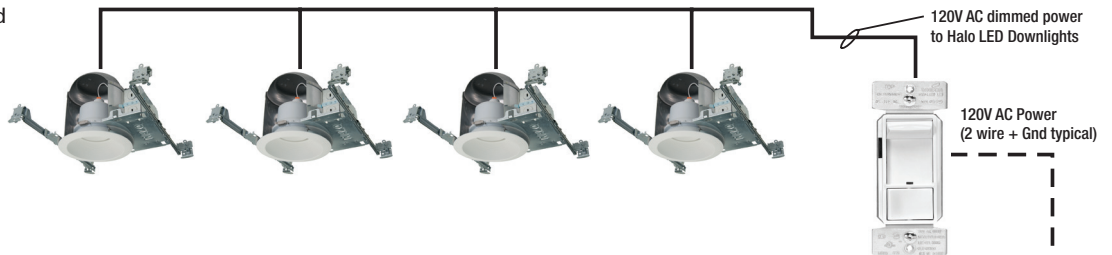
ML5609927
ML5609930
ML5609935
ML5609940
ML5609D2W930

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 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 ¹
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 ²

¹ Slight Flicker at Low Light

² Dimmed to zero light

Dimmer Make

CWD = Eaton's Cooper Wiring Devices Business
CC = Eaton's Cooper Controls Business

Dimmer Rating - Load Type

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FLR = Fluorescent

ML56 - 600 Series - 80CRI

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ML5606830
ML5606835
ML5606840

For Reference Only - Incandescent and Electronic Low Voltage Rated Dimmers

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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	IPI06	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 ²
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 ³
CWD	Trace	TI061	INC	1	16	88%	1%	≤1 sec ¹
Leviton	Plug In Lamp Dimmer	TBI04	INC	1	n.a.	100%	1%	>1 sec

¹ Slight shimmer

² Shimmer at mid dimming level, dimming jumps abruptly

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

Dimmer Make

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Dimmer Rating - Load Type

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ML56 - 600 Series - 90CRI

ML5606927
 ML5606930
 ML5606935
 ML5606940
 ML5606D2W930

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	15	97%	2%	≤1 sec
Leviton	Illumatech	IPE04	ELV (rated for LED)	1	30	91%	1%	≤1 sec
Leviton	Illumatech	IPL06	INC (rated for LED)	1	15	95%	2%	≤1 sec
Lutron	Skylark	SCL-153P	ELV (rated for LED)	1	15	91%	3%	≤1 sec
Lutron	Diva	DVCL-153P	INC/HAL/CFL/LED	1	15	91%	1%	>1 sec
Lutron	Maestro	MACL-153P	INC/CFL/LED	1	15	82%	3%	≤1 sec
Lutron	Toggler	TGCL-153P	INC/HAL/CFL/LED	1	15	89%	1%	≤1 sec
CWD	Smart	AAL06	INC/HAL/FLR/MLV/ELV/CFL/LED	1	30	97%	3%	≤1 sec ²
CWD	SKYE	SAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	30	100%	99%	≤1 sec ¹
CWD	Devine	DAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	30	100%	2%	≤1 sec ¹
CWD	SKYE	SLC03P	INC/HAL/CFL/LED	1	30	100%	2%	≤1 sec
CWD	Devine	DLC03P	INC/HAL/CFL/LED	1	30	100%	2%	≤1 sec
CWD	Devine	TAL06P	INC/HAL/CFL/MLV/ELV/LED	1	30	100%	1%	≤1 sec ¹

¹ Shimmer at maximum dimming level

² Slight issues with dimming smoothness

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Leviton	Decora	6673	CFL, INC	1	15	100%	8%	≤1 sec ⁵
Leviton	Sureslide	6631-2	INC	1	15	100%	0%	≤1 sec
Leviton	Illuminatech	RP106	INC	1	15	100%	5%	≤1 sec
Leviton	Illuminatech	IPI06	INC	1	15	100%	0%	>1 sec
Leviton	Vizia	VP106	INC	1	15	90%	2%	≤1 sec ³
Leviton	Decora	6161	INC	1	15	96%	2%	≤1 sec
Leviton	Sureslide	6633-P	INC	1	15	100%	1%	>1 sec
Lutron	Toggler	TG-600P	INC	1	15	91%	4%	≤1 sec
Lutron	Nova T	NTFTU-5A	INC	1	60	100%	9%	≤1 sec
Lutron	Diva	DV600P	INC/HAL	1	15	95%	7%	>1 sec
Lutron	Lumea	LG600P	INC	1	15	96%	1%	≤1 sec
Lutron	Skylark	S600P	INC	1	15	95%	1%	>1 sec
Lutron	Skylark Contour	CT103P	INC/HAL/MLV	1	25	95%	1%	≤1 sec
Lutron	Diva	DV603P	INC/HAL	1	15	95%	2%	≤1 sec
CWD	Devine	RI061	INC/HAL	1	15	100%	3%	>1 sec ⁴
Leviton	Vizia	VPE06	ELV	1	15	94%	1%	≤1 sec
Leviton	Vizia	VZE04	ELV	1	15	86%	3%	≤1 sec
Leviton	Acenti	ATX-10	ELV	1	80	92%	2%	≤1 sec ¹
Lutron	Maestro	MAELV600	ELV	1	60	77%	3%	≤1 sec
Lutron	Faetra	FAELV500	ELV	1	50	77%	3%	≤1 sec
Lutron	Diva	DVELV303P	ELV	1	30	66%	1%	≤1 sec
Lutron	Skylark	SELV300P	ELV	1	30	67%	1%	≤1 sec
Lightolier	Sunrise	ZP260QEW	ELV	1	26	78%	3%	≤1 sec
CWD	React	SF8AP	INC	1	96	100%	2%	≤1 sec
CWD	Skye	DE06P	ELV	1	15	80%	1%	>1 sec ²
CWD	Trace	TI061	INC	1	15	75%	2%	≤1 sec
Leviton	Plug In Lamp Dimmer	TBI04	INC	1	n.a.	100%	1%	>1 sec

¹ Shimmer at mid dimming level, dimming jumps abruptly

² Occasionally flashes at start up, slight shimmer, occasionally flickers, does not dim smoothly

³ Slight issues with dimming smoothness

⁴ Shimmer

⁵ Slight flashing at startup

Dimmer Make

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ML56 - 900 Series - 80CRI & 90CRI

ML56 - 900 Series - 80CRI

ML5609827
ML5609830
ML5609835
ML5609840

ML56 - 900 Series - 90CRI

ML5609927
ML5609930
ML5609935
ML5609940
ML5609D2W930

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	11	99%	2%	≤1 sec
Leviton	Illumatech	IPE04	ELV (rated for LED)	1	22	98%	1%	≤1 sec
Leviton	Illumatech	IPL06	INC (rated for LED)	1	11	98%	1%	≤1 sec
Lutron	Skylark	SCL-153P	ELV (rated for LED)	1	11	97%	5%	≤1 sec
Lutron	Diva	DVCL-153P	INC/HAL/CFL/LED	1	11	97%	2%	≤1 sec
Lutron	Maestro	MACL-153P	INC/CFL/LED	1	11	93%	5%	≤1 sec
Lutron	Toggler	TGCL-153P	INC/HAL/CFL/LED	1	11	97%	3%	≤1 sec
CWD	SKYE	SAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	22	100%	2%	≤1 sec
CWD	Devine	DAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	22	100%	1%	≤1 sec
CWD	SKYE	SLC03P	INC/HAL/CFL/LED	1	22	100%	2%	≤1 sec
CWD	Devine	DLC06P	INC/HAL/CFL/LED	1	22	100%	1%	>1 sec
CWD	Devine	TAL06P	INC/HAL/CFL/MLV/ELV/LED	1	22	100%	2%	≤1 sec

¹ Issues with dimming smoothness, shimmer

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ML56 - 900 Series - 80CRI & 90CRI

ML56 - 900 Series - 80CRI

ML5609827
ML5609830
ML5609835
ML5609840

ML56 - 900 Series - 90CRI

ML5609927
ML5609930
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For Reference Only - Incandescent and Electronic Low Voltage Rated Dimmers

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Leviton	Decora	6673	CFL, INC	1	11	98%	9%	≤1 sec ¹
Leviton	Sureslide	6631-2	INC	1	11	99%	1%	≤1 sec
Leviton	Illumatech	RP106	INC	1	11	100%	4%	>1 sec
Leviton	Illumatech	IPI06	INC	1	11	100%	1%	>1 sec
Leviton	Vizia	VP106	INC	1	11	99%	1%	≤1 sec ²
Leviton	Decora	6161	INC	1	11	98%	4%	≤1 sec
Leviton	Sureslide	6633-P	INC	1	11	100%	1%	>1 sec
Lutron	Toggler	TG-600P	INC	1	11	97%	7%	≤1 sec
Lutron	Nova T	NTFTU-5A	INC	1	45	100%	16%	≤1 sec ³
Lutron	Lumea	LG600P	INC	1	11	98%	3%	≤1 sec
Lutron	Skylark	S600P	INC	1	11	98%	3%	>1 sec
Lutron	Skylark Contour	CT103P	INC/HAL/MLV	1	18	98%	2%	≤1 sec
Lutron	Diva	DV603P	INC/HAL	1	11	98%	4%	≤1 sec
CWD	Devine	RI061	INC/HAL	1	11	100%	6%	>1 sec
Leviton	Vizia	VPE06	ELV	1	11	98%	3%	≤1 sec
Leviton	Vizia	VZE04	ELV	1	11	96%	4%	≤1 sec
Leviton	Acenti	ATX-10	ELV	1	60	99%	3%	≤1 sec
Lutron	Maestro	MAELV600	ELV	1	45	92%	4%	≤1 sec
Lutron	Faetra	FAELV500	ELV	1	37	91%	4%	≤1 sec
Lutron	Diva	DVELV303P	ELV	1	22	84%	2%	≤1 sec
Lutron	Skylark	SELV300P	ELV	1	22	85%	2%	≤1 sec
CWD	React	SF8AP	INC	1	71	100%	12%	≤1 sec
CWD	Skye	DE06P	ELV	1	11	92%	3%	≤1 sec
CWD	Trace	TI061	INC	1	11	90%	3%	≤1 sec
Leviton	Plug In Lamp Dimmer	TBI04	INC	1	n.a.	100%	3%	>1 sec

¹ Slight flashing at startup

² Shimmer

³ Unable to turn off

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ML56 - 1200 Series - 80CRI & 90CRI

ML56 - 1200 Series - 80CRI

ML5612827
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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	8	98%	2%	≤1 sec
Leviton	Illumatech	IPE04	ELV (rated for LED)	1	16	97%	1%	≤1 sec
Leviton	Illumatech	IPL06	INC (rated for LED)	1	8	98%	1%	≤1 sec
Lutron	Skylark	SCL-153P	ELV (rated for LED)	1	8	96%	5%	≤1 sec
Lutron	Diva	DVCL-153P	INC/HAL/CFL/LED	1	8	96%	2%	≤1 sec
Lutron	Maestro	MACL-153P	INC/CFL/LED	1	8	90%	6%	≤1 sec
Lutron	Toggler	TGCL-153P	INC/HAL/CFL/LED	1	8	95%	4%	≤1 sec
CWD	SKYE	SAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	16	100%	3%	≤1 sec
CWD	Devine	DAL06P	INC/HAL/FLR/MLV/ELV/CFL/LED	1	16	100%	5%	≤1 sec
CWD	SKYE	SLC03P	INC/HAL/CFL/LED	1	16	99%	2%	≤1 sec
CWD	Devine	DLC06P	INC/HAL/CFL/LED	1	16	100%	1%	>1 sec
CWD	Devine	TAL06P	INC/HAL/CFL/MLV/ELV/LED	1	16	100%	6%	≤1 sec

¹ Issues with dimming smoothness, shimmer

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ML56 - 1200 Series - 80CRI

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Leviton	Decora	6673	CFL, INC	1	8	97%	2%	≤1 sec
Leviton	Sureslide	6631-2	INC	1	8	99%	2%	≤1 sec
Leviton	Illumatech	RP106	INC	1	8	100%	5%	>1 sec
Leviton	Illumatech	IP106	INC	1	8	100%	2%	≤1 sec
Leviton	Vizia	VP106	INC	1	8	99%	2%	≤1 sec
Leviton	Decora	6161	INC	1	8	98%	5%	≤1 sec
Leviton	Sureslide	6633-P	INC	1	8	100%	1%	>1 sec
Lutron	Toggler	TG-600P	INC	1	8	96%	8%	≤1 sec
Lutron	Nova T	NTFTU-5A	INC	1	33	100%	18%	≤1 sec
Lutron	Lumea	LG600P	INC	1	8	98%	3%	≤1 sec
Lutron	Skylark	S600P	INC	1	8	98%	3%	≤1 sec
Lutron	Skylark Contour	CT103P	INC/HAL/MLV	1	13	98%	3%	≤1 sec
Lutron	Diva	DV603P	INC/HAL	1	8	97%	5%	≤1 sec
CWD	Devine	RI061	INC/HAL	1	8	100%	6%	>1 sec
Leviton	Vizia	VPE06	ELV	1	8	98%	2%	≤1 sec
Leviton	Vizia	VZE04	ELV	1	8	95%	4%	≤1 sec
Leviton	Acenti	ATX-10	ELV	1	44	99%	5%	≤1 sec ¹
Lutron	Maestro	MAELV600	ELV	1	33	89%	4%	≤1 sec
Lutron	Faetra	FAELV500	ELV	1	27	88%	4%	≤1 sec
Lutron	Diva	DVELV303P	ELV	1	16	76%	2%	≤1 sec
Lutron	Skylark	SELV300P	ELV	1	16	78%	2%	≤1 sec
CWD	React	SF8AP	INC	1	53	100%	19%	≤1 sec
CWD	Skye	DE06P	ELV	1	8	89%	4%	≤1 sec ²
CWD	Trace	TI061	INC	1	8	85%	5%	≤1 sec

¹ Shimmer at mid dimming level, dimming jumps abruptly

² Slight shimmer, flash at startup

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Dimmer Notes:

- 1) Start time is measured at the lowest dimmer setting.
- 2) Some LED rated dimmers have a "rapid start" design used to provide a momentary power boost for LED and CFL lamps during start-up. When a LED luminaire is on a dimmer with "rapid start" the boost may cause a momentary flash of the LED lighting. This "flash" is generated by the dimmer, and may be more noticeable when the dimmer is at a low setting. A solution is available in the following CWD dimmers which provide adjustment capability of the "rapid start": Devine (DAL06P), Accell (AL06P), and Trace (TAL06P). Refer to product specifications online at www.cooperwiringdevices.com for more details.

Dimming Guide Disclaimer:

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Refer to the manufacturer specifications for more detailed information on product certifications and standards.
- 3) This is a representative list of typical dimmers as tested by Cooper Lighting for performance with the designated LED luminaires only. Test data contained in this literature is based upon dimmers obtained in the marketplace. Information about these other manufacturers products is obtained from packaging and published information made available by the manufacturer and is deemed to be reliable, but has not been verified.
Dimmer performance and perceived limitations of the dimmers are based on factors outside of Cooper Lighting's control. The specifications of these dimming controls and their conditions of use may change without notice to Cooper Lighting or any other user.
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Installer must ensure proper local and national electrical codes are followed; and that the dimmer application and condition of use is per dimmer manufacturer instructions and guidelines.