

Dimming Guide

PD6 LED Series

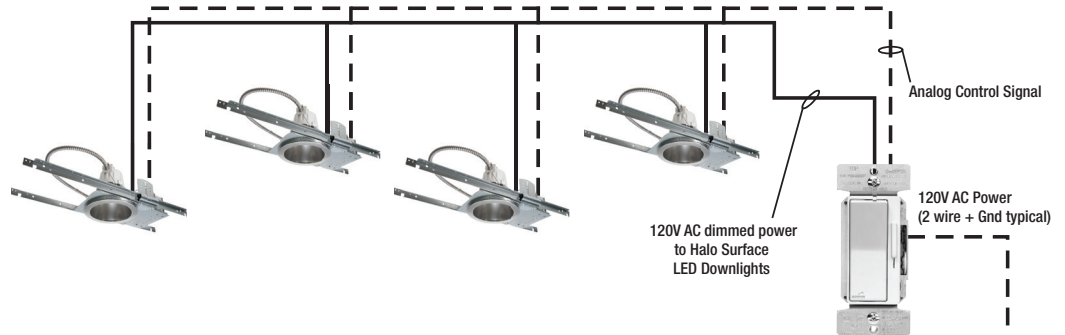
Halo Commercial

Information in this dimming guide related to the PD6 LED product families listed below. The PD6 LED series provides flicker-free dimming to 1% with many 0-10V dimming controls.

PD6 LED - New Construction/Remodel		PD6RX LED - Retrofit		PD56R LED - Retrofit		PD5R LED - Retrofit	
PD610D010B	PD6CP10D010B	PD6RX10D010B	PD6RXCP10D010B	PD56R10D010B	PD56RCP10D010B	PD6R10D010B	PD6RCP10D010B
PD615D010B	PD6CP15D010B	PD6RX15D010B	PD6RXCP15D010B	PD56R15D010B	PD56RCP15D010B	PD6R15D010B	PD6RCP15D010B
PD620D010B	PD6CP20D010B	PD6RX20D010B	PD6RXCP20D010B	PD56R20D010B	PD56RCP20D010B	PD6R20D010B	PD6RCP20D010B
PD630D010B	PD6CP30D010B	PD6RX30D010B	PD6RXCP30D010B	PD56R30D010B	PD56RCP30D010B	PD6R30D010B	PD6RCP30D010B

0-10V Control Dimming

PD6 luminaires installed with a 0-10V dimmer.



Eaton's AL Series dimmers offer versatile options to set the mood and reduce energy consumption. Visit www.cooperwiringdevices.com/ALSeries for more information.



Dimmer Features	Smart dimmer AAL06/WBSD-SMT	Decorator dimmer DAL06P/WBSD-DEC	Slide dimmer SAL06P/WBSD-SLD	Toggle dimmer TAL06P/WBSD-TOG
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	•	•	•	•

1000 Lumens / D010

Dimmer Make	Dimmer Series	Dimmer Model #	Types of Dimmer	Minimum Lamps or Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit) at 120V	Maximum Recommended Luminaires (per circuit) at 277V	Max Dimming percentage (%)	Min Dimming percentage (%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10v	1	94	120	100	1	>1S
Eaton	Decorator Dimmer	DF10P	0-10v	1	94	120	100	1	>1S
Leviton	Illumatech	IP710-DL	0-10v	1	93	93	97	1	>1S
Lutron	NTFTV	NOVA T	0-10v	1	100	100	100	1	>1S
Lutron	DIVA	DVTV	0-10v	1	100	100	100	1	>1S
Eaton	iLumin	SC277-06	0-10v	1	148	303	100	1	>1S
Eaton	Greengate	CK4A	0-10v	1	186	303	100	1	>1S

1500 Lumens / D010

Dimmer Make	Dimmer Series	Dimmer Model #	Types of Dimmer	Minimum Lamps or Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit) at 120V	Maximum Recommended Luminaires (per circuit) at 277V	Max Dimming percentage (%)	Min Dimming percentage (%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10v	1	63	85	100	1	>1S
Eaton	Decorator Dimmer	DF10P	0-10v	1	63	85	100	1	>1S
Leviton	Illumatech	IP710-DL	0-10v	1	63	77	99	1	>1S
Lutron	NTFTV	NOVA T	0-10v	1	98	100	100	1	>1S
Lutron	DIVA	DVTV	0-10v	1	98	100	100	1	>1S
Eaton	iLumin	SC277-06	0-10v	1	98	213	100	1	>1S
Eaton	Greengate	CK4A	0-10v	1	123	266	100	1	>1S

2000 Lumens / D010

Dimmer Make	Dimmer Series	Dimmer Model #	Types of Dimmer	Minimum Lamps or Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit) at 120V	Maximum Recommended Luminaires (per circuit) at 277V	Max Dimming percentage (%)	Min Dimming percentage (%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10v	1	45	62	100	1	>1S
Eaton	Decorator Dimmer	DF10P	0-10v	1	45	62	100	1	>1S
Leviton	Illumatech	IP710-DL	0-10v	1	45	56	100	1	>1S
Lutron	NTFTV	NOVA T	0-10v	1	71	111	100	1	>1S
Lutron	DIVA	DVTV	0-10v	1	71	115	100	1	>1S
Eaton	iLumin	SC277-06	0-10v	1	71	160	100	1	>1S
Eaton	Greengate	CK4A	0-10v	1	88	200	100	1	>1S

3000 Lumens / D010

Dimmer Make	Dimmer Series	Dimmer Model #	Types of Dimmer	Minimum Lamps or Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit) at 120V	Maximum Recommended Luminaires (per circuit) at 277V	Max Dimming percentage (%)	Min Dimming percentage (%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10v	1	34	48	100	1	<1S
Eaton	Decorator Dimmer	DF10P	0-10v	1	34	48	100	1	<1S
Leviton	Illumatech	IP710-DL	0-10v	1	34	43	96	1	<1S
Lutron	NTFTV	NOVA T	0-10v	1	55	120	100	1	<1S
Lutron	DIVA	DVTV	0-10v	1	55	120	100	1	<1S
Eaton	iLumin	SC277-06	0-10v	1	55	125	100	1	<1S
Eaton	Greengate	CK4A	0-10v	1	69	156	100	1	<1S

4000 Lumens / D010

Dimmer Make	Dimmer Series	Dimmer Model #	Types of Dimmer	Minimum Lamps or Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit) at 120V	Maximum Recommended Luminaires (per circuit) at 277V	Max Dimming percentage (%)	Min Dimming percentage (%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10v	1	23	32	100	1	<1S
Eaton	Decorator Dimmer	DF10P	0-10v	1	23	32	100	1	<1S
Leviton	Illumatech	IP710-DL	0-10v	1	23	29	97	1	<1S
Lutron	NTFTV	NOVA T	0-10v	1	36	84	100	1	<1S
Lutron	DIVA	DVTV	0-10v	1	36	84	100	1	<1S
Eaton	iLumin	SC277-06	0-10v	1	36	84	100	1	<1S
Eaton	Greengate	CK4A	0-10v	1	45	105	100	1	<1S

Dimmer Rating - Load Type

INC = Incandescent
HAL = Halogen
MLV = Magnetic Low Voltage

ELV = Electric Low Voltage
CFL = Compact Fluorescent
FLR = Fluorescent

Transformer Load - H347 (75VA)

1. H347 Transformer at full loading consumes a maximum of 15W of power.
2. When a dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 2.5W and in "ON" mode at 15W maximum under full loading.
3. When a switch is on the primary (347V) side ahead of the transformer, power is consumed only in "ON" mode to a maximum of 15W under full loading.

Transformer Load - H347200 (200VA)

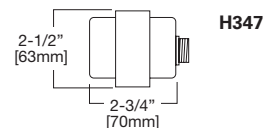
1. H347200 Transformer at full loading on 120V side consumes a maximum of 28W of power, at full loading on 277V side consumes a maximum of 12W of power.
2. When a dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 9.2W and in "ON" mode at 28W maximum under full loading.
When a dimmer or switch is on the secondary (277V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 10.3W and in "ON" mode at 12W maximum under full loading.
3. When a switch is on the primary (347V) side ahead of the transformer, power is consumed only in "ON" mode to a maximum of 28W under full loading on 120V side.
When a switch is on the primary (347V) side ahead of the transformer, power is consumed only in "ON" mode to a maximum of 12W under full loading on 277V side.

Maximum Units on Step Down Transformer

Transformer	VA Rating	PD610	PD615	PD620	PD630
		Max # of Fixtures	Max # of Fixtures	Max # of Fixtures	Max # of Fixtures
H347	75	4	3	2	1
H347200	200	12	8	6	4



H347
347V Step Down Transformer,
75VA



H347200
347V Step Down Transformer,
200VA

